Plus a New Serial PLATOON FULLBACK


## Thered Lantern

 that was put out by the automobileI


You're troping gonr way orey the slippery cobdextoncs, then you
 ominous chughing.
 held by "man walking whend of ome of thowe annazing new steam-driven mighuray eouches.

 wave a red fltyg-at right, a red lontorn.

That': how it was during the very early days of the enarches, cabs and homeless carriages that finally became the mondern automobile
Dany foolishl laws were passed, in this country as well as abrobd, In many plares, mon hat to lead whinles and give warning. These vehirlto were even banes it some areas. Newspapers and magazes sounded alams: against the "a hevil wagons."

Matter of text, the deamers who worked on thane primitive whiclesand the people who dareal to hur them---were nol murh eonerned with safety. They simply wancel something that would rum.
Today, of course, your satety is as important to automohile makers as are comfort, perfomatere, sturliness, and atylim.
At General Motors, for example, we have a Sufety limgineer and at saffly (ommitae of enginers from the car divisions. This group continually thecks the sufety of even minor changes before they go into production.



have seen the CiM Baking Chats which are used in many sehools-or our films on salety.
'Today's traffic laws are very stund, of course. But it's still our job to keep making cars better and better-athed better.
That's why our research mell, fondineers and production experifs keep inying to make motoring sufer, as well as smoother, mont comfortable, mone poonomical.
Abul that's why mo many folks will tell you-c'you can't leat a Cal war for ralue!"

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PLATOON FULLBACK (Part 1 of 2) Jack Patulnom THE BLS BOY AND THF CTRTNINALS

THE WHIRLPOOI.
Aatn 11 yind
fOO HOO! NRDHEN?
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ON THE K R ROUND[?
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## SPECIAL FEATURES

UNDFRSEA HUNTERS
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Sols Joles

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 DRYING TABLE FOR FRUITS AND
VECETABI.ES
SGANNING THE SPOKTS SCENE
Stituley Pashako
THHNK AND GRIN.
SCOUTS IN ACJION

## SCOUTING

THE HICKORY TENT. .....ETHEs F. Sclimidi DFATH VALIEY ADVENTUKE

John Wrodlary
SWAPPJNG AI THE JANTBOREL.
"ITE LHKE OH 'IHE "NONSLECH" PATROI,
William Ilillcourt
GRFEN BAR BILL SAYS-
SCOLTCRAFTES
YOL TELI. NE
FROM OUR WUFEE BAG
HOW TO MAKE YOUR OWN SHEATH
PIPE BAGS AND PODCHES .... Ben Hut
GIASS EM [N.......... Cienn A. Wagmer
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FEATURETTES
THE FIITAHING: R \CK
HOBBY CORNER
ABOUT COINS.
MWEL HHIS CON ICI IPRINTER
SHORT WAVE RLCFIVFR .... ltral katen NKVIES OF '1GL ALONT1].
BROWSING FOR G月FIS AND GINMICKS. $\mathrm{B}_{4}$

## THIS MONTH'S COYER

In America, the frout seasems ir Llae year howe a lingo peculiarly their antm. Each fall, crips of "thodis their kiek!" and "Hast that linal" reverlserate from massive suatinms reveriserite from massive startumb Ly. in mach a seling This Mentis Cover wals taken, as the furlmall piants of the Eniversity of withigan and Savy hatuled fol the louge theswl al Aar Arlmi. Mirligan.

 atcomplishest by ant imxilicena meatus. mamely, Jauling guld Irom mines to ingpire in the minds of mets the desire
 нанел.

This matleet has leen cellerred whe UN, and wey are tolet the Sex urity Council witt ant on it at the earliest possible moneun.-Fomh Galhin, Hatsdinter. N. ${ }^{3}$.
 A countered with a kick that tupte the animal kingilon, everyone. ployed his forces in our offoe when the expected allack cane.
"Man the ramparts!" Pedro shouted. The ROBA (Royal Order of Burros of America) picked bi inkwells. The lflall (lomorary Honte fror Aged Horses) sem up reinlorcenents armed with glapoots. The Stchers (hociely to Prevent Catulty to Weanels) BH to PW's (Bal Bombers to Protect Weasels) swept in, covering the BIOO (Benequalan Protective Order of Otter) who were conning in at the windows. The ROFA were huddind their own until the SPCW called up the fnOS (Deodmized Other of skutik) as reinforcements.
P-lil Soneone erred! Both sides aied sabotage, and retreated to unconlaminated arcas. So dicl your liditors, who wilhalrew enliely. Pedro covering our retreat with his mark-UU.

## hing Rack

Dear Pedro: Hlease! Fnough of this weasel-burro ficual. It is rifiling tio L.cagne of Animals. Something mba be tome. Nos one animal is lotave conough to act as a wiediator. - Trygthe Lion Sec. Cenemi, Ashlatid, Ky.
Demp Pedra: Now that the ROIst las declared war on the SPCW, I am in trablice. I live in lutween al group on burns and wedsels. After getting is tew pin feathers knowhed olt 1 tried to ar range a truce. But I just got the staftin' knocked onal of nek, su il surgest you cross the harras and weagely and come ul? whth a brasel ar a worto- It'ise ofd Coul, Phinfield, fimm.

Dear Pedro: Every sime I turn armumb ] see my Uncle willie or my Comsin

Eluter in sume worman's for coat. Fen all the credit we pel is being calleal "litite stinktrs."-One Mnt Wrasef Peroyita, IIt.

Deat Pedro: Thut ROBA and the SPCW are killing each blact, while we stinkers of the DOS (Deadorized Order of the Skank) cant cerenget it :
 Srixar.

Detr Pedro: Since you are oh the horst family and lonk whewlat leke a durme. 1 have decided in your lavor,-Herterat Horse, El Paso, Trixm.

Drar Ferfro: I'me pretty mad abour What's been wide The itleas al making glue mat ol latros:-才 Awhe, Janf. Brantuille. N. Y.

Semt Pedro: We Lurros wast stick thgether. We pledgre nur suppurt to this 1rwibe c:tusc,--Drohterhood of BuFos and ilutes, Local wos, Chicago, IM.

Drem Pedro: I just rlon't like it. We should lave more respect.-Frhmeis, The Talking Mnle, Contay, S. C.

Dear Pedro: lis geting wa ] Gant Ry my saucer any more without secing buitros and weasels engaged in hand (o) Limel combat. I wist they wombly stop-Pitah, Ftying Simmor Patrol, Port Argetes, Wash.
Dur realere are in mrins, loul wion heg fur peare.-ED.

## That Whorlerfal Genoter

Dmer Prdra: I like the plans Jor the Whater Scouter very much. 1 know smonfing alonut them as I lived by the Pacifir Oevan Eur ren pears. I intend (u) make one-bob Brestrel', Sulphat Sjumes. Texis.
 line plans lor a Water scomter I think it will be a lot of lan in the water atal lun to build too-john Monthane: Riverton, N. J.
Drar Pedra: Yont Water Scomer lunk, like fith it the water as well as in the making. I wish thore pecople whulal pat inlers Jike this in writing as BOYS' ItFF dues.-Robs fohman, Hantiog. cutt. L. l.. N. J.

Dear Pedra: I wisla yun combld cominue yiving surh inlormation on water crafts 3s the Water Sanomer. Out here by the Banific Oeean every lom enjoys thinge Atrat carn be used on water--Afferd Cadson, Sim Juatheisem, Catij.
Thanki for your respantay on the Whafe Sconter--Fil.

## Re Conservalion

Dear Pedro: While reading due Jaly issuc of HOYS' LIFE, I noticed Don (Cohrftrded on ftage 5)

# Breeze-Allong Good Lookers 

## The Eitching Rack

(Conduatel ITom tage 3)
Fuytieg leture. I thint he is perfectly jowtilied in wriniag abour ontr cinivend dewtrurtive artions. I think this ant be overcome. At least, BOYS LIFE jead ers can berame more conserwation com stions. Here's my sugyestion.

BOY'S L.IFE should publish a series of comsmation deeds. Each act should count so many points. At the end of a brief period of time, cuch reader should send to BOYS' I.IFE a list of his actions and the wumber of proints achieved. The winner may then have his picture in the following issue. Per hatpo at medal could be awarited. Bur 1 thisk the lumber is wotth it, dor't you? - Dill Prmy. Pr, Srianton pre. Semi as your opinioman-ED.

Now That'ョ Hiking
Jem Prido: As il 「urmer Senul, now with the Army in \}apan. I thought you might be interested in this stery. Japat nese loys ale duing their best io lears Amerian Soouting. One Trosp of Jit panese scous recently received the "Jandbrok for Boys" and sut abrout trambating it. In shant erder they wer convinced American Sonts ate super menc. it sexals the Japaneate Scouls wert sartidy their likes at six pom. hikiag until six atm, and then tepont ing to schuosh or whork. In their triushit tims nf the liantlomok, they hatl chatugat "user-1 ight hike" tor read "all night hike. "-Farmer Scout.


OI Siporta And Cookn
Dear Prefu: I would like tu thank you and De:an Cromwell ven mudh Ior fume article How wherin. The article was one whielt I conded especialty ure ds I an rying tos pass my Athetics Merit Badge athd needed the stwice and training suggestions so well piven That kind of article really makes me aploreciate my subseription.
Incidentally, Perlm, the varinus shor artieles on cooking resaiud me at some. thing 1 have long wanted, and that i a gourl complete buok of outduor couk ery with all sorts of recipes, methoed of preparation, ment stugestims, etc -Will Huzvorth, Housion, 'Texas.

Didal Predros: I'm suterested in more Lips lor combing ated like mentis. I ann sure ontrer lellem's womlth le tem- Onteren Bhak. J... Atushoger, (okim. What Co Cakin' in the liably Conner is a goud leud for roakinn and kre nlay Your Rook Sceut in thim Pbue, For the ramper wlow"h bachjaseking hut still wantar ward chow, uraler the pamphlel
 anmouncerd in this monllis feallure Festherw eight thow.-ED.

## CHANGE OF ADDRESS

Plowis sad any change of oddress direci
to Bors. LifE. 2 Park $A v e$. Now Yark 16 N. Y. at the 2 Park Ave.. Now Yark 16 . praferably o wakks in odvance. Be sure auddras and the sabseriber's nume in fulf


BUT ALREADY A BOWLING "CHAMP"
"Shucks, it's easy. But you really have to practice. And it sure helps to have your own Brunswick Ball fitted to your grip."

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ADORESS


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VED: WHAT BRAKES! YOU BARELY PRESS THE PEDAL!


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# Platoon Pulllback 

By JACK PAULSON

## Clip Bell took a dinn niew of the rah-oroh spirit and

## Conch Moman suspected he was really dogging his job

PART 1 OF A 2-PART SPORTS SERIAL

HERBERT "CLIP' BE\&I, was the only veteran regular lelt frum Midstate's great gridiron machinte of ast year. And as be sat slouched head town on the bench in the varsity dressing room. he was the only member of this year's squad who was not giving his entire attention th the stocky. pleasant-laced man in sweat shirt and baseball pants who stood in the center of the group.
Clip Bell was uncasy. A litule inner voice kept hagging him as he hall-listemed to Coach Mann, new Midstate football mentor.
"We're at the slage where a scrimmage is indirated." Coach Mann said, Ilis teme was mild, easy in tempo, almost slow. "We are entering the stage of workouts where different personalities and degrees of abilities must be fused into a tean. Scrimmage is the time-honored way to do the job."
Clip scowled. Talk, he thought impatiens ly. Corny talk. Why doesn't lie knork ralf the high-sounding oratory and get al the fusing then?
And why dom't you knock off the griping? The little voice naged. Give him a chance. Just because he's different from the driving. toughtalking coaches you ve known doesn't mean that he doesn't know his business.
"Foomball is a great game," the coach went on. "Bat it has to be more than that. A fellow has to gel some fun out of it and it



The abialist paggerrif harkward over a bench.
lats to lauiled him. Il foroball doesn't do sonmething boward making a player a better atlaround man-docsin' give him a sense of satisfying fun-hlen he'v beter of not playing tootball

Nuts Clip thought. W'liy don't we get out on the lied and wel it it? Doce the gry thith
 Loxime patacially a veteran leath, throdegh circumstances ofer which we hat no comoral. has lelt us in a rough spot." Coach Masin slawad even bure lice tempo. of his worty "Bun lounest eftort and spiril san do things lor a lmolball team. Work and spirit and rest lom the ganc. Now, I know that all of vou bave the Midtate spirit. So ..."

Arcothas! Clip almont explowled the word aloud. How corny can you get? 'Thy Nidstate spirit? Woukd the gang we had last year get a grast out of that lince How carny rast you wet?
His dayk cyes held a rynied anmomment. His stubly biack haix secmed lo bristie in derision and Cllip was alaruptly thinking ol the gatiz of laardboilen! liostbald players that fad been hin teammates a year ago koeerbi and Janes and the others, who had made Midstate d Conlerence leader with their tough, hatel hitiong power-home alfonse. What dist it hater ilshol thein motives?

TThey dath dolleze: and foothall and the trappings ligured. I.ike Kocerki lazd said: The lamiy-janas rala-ral, hays bouk down on : minn becanse be's smart chough to grab a seat on the gray trim. Jin getting latw training that I conld never have afforded excepr lor lootball and J'm mol unappreciative. But you have io be a realist. You have to look our for Number One all of the time. The Joc College boys wave the penmants and go hysterical over dear old Alma Mater's
minhty teans, frut they tolerats ledows like tis withour every really acceptiug us, لou have to keep the statur gite."

Well. Kozerki had told Clip Bell somhing that he did nest atready know. The status quo will libin lad always leeen a contempt for the college snobs. A guy could not grow up in a college tom and see the way the campus hoo-shots looked down their neses an a lellow becaluse he happened to be frem the "wong side of the tratks" and not leel a comtemght fer them.

Clip shifted lois weight restlessly on time
 Marn's slow speech someliow adted to the irritation thal had leen with him since the start of loobnal practice. It was the difference in the spuad what Korerki and fanes and the others gone that was whan made him so restless. Wht the nageing litule voice inside Clip needled at this thongla.

WHib, was pmat you go with them: A tellow sught tos loe Tomest will hinusell. Why don't you conless that nusise af the contempry duile uplor altege guys was ad sour grapes thing when yen were a kid lrom the wrone side ol the toacks and couldn'ו see any chance of ever bexing a college man yoursella Why did you uss your Gl Bill benefits If enter Midsiate ather yout got aut of the Nasy? Why dom't you admit that you're just ton blamed atubbern to break down and be a regular quy like val jeally want to and abserta the whesl mivirl and-

O!. Mucs Thates silly! Clip jerked his attention bach to the lemker roonn just in time to hear Cowh Marm finish his remarks. "J'lat shouk ta at," the coarla toid. "Everybaty be sume lace wtats lull equipment rait licre iondav.

So the fight-talk oridury was over. Now cheyd get out on the liede and everylxody would just have a swell bine with satistying cest and the Midstate upirit.
"I just want co add a few words to the thimgs Coatch said."

Cilip looked ytickly at the slender player who stome erect lacing the squad. Captain Toe I Itacy"s yommer lioce was very serious. Now what! Clips stared at the slonder mpcalll curionsix.
"] want be ushare Coach Llat whire with fiom. one hundred percenn." Haney said. "Whastate is in a tolugh spoo, platying out a shodule that was mate treture thingo changed and Milstate quit being a fooball Eactony. We-"

Haney flashem a nlance ar Clip. The cap-
 wated on alter the new jhesy coll of subsidized players and fired the high-powered coarising statf-well, it's a cinclı ilat we alt have Llice Minstate spirit. Let's go, gatigl"

The romon wats buddenly fillect winh chati1er. Cllip lels a puickening something deep insite and the rhater and scuffing of tool ball cleas on constete was warming and good. Then suddenly the wamuth was geme and a kowl wrinkled his square-cus face.
Nuts. Hame diduct have to puld ims putuches. Cilip Bell knew Lhe scort. 'The' disheus will Hancy and illl the rest of the lancypants fre Cohtogers. Clip Bell conald have gone with Kazak and fanes when they utherd out. They had done atl light it Ses-
 at any mhoul. Mitstate spirit. Bunk: He hat stayed at Nidstate tor just one reason: it hegured wo lae the best deal lor Clip Bell.
Yan-u-n-In! The litule inner voice jeered. You put up a hardboiled front, don't yout You really staped becastise you wanted to-

Oh, sow that hilpe. 'Inis paty-atke sumf was the itpofl. Midstatc was in for a lousy seatom. But hey still played at manmetemm scheclule. They would get plenty of spate on spora sheets. Anal on sportaders air progranss. I good man would stand oun that much wore prominemely on a crummy tean. There was hae reasun that Clip Bell had saynd on at Midslate.
(Mas:A Wans nemw his whiste afer a few Qaminmer al bosening up extrises.
'Well try out the plays vorve Ineen given," he siand. "Nolling saviage. jleasc. Iant let's make it a real scrimmage. Ilaney at ptarterback, Timmons at righte latil, Cole at lelt hath. Bell at lullback for the vasity. We're operating from a basic single wing, but Text will ! tu some plays aff it mostificd IT formation just to keep the defense mues.int. Shake it uj, now, everyborly."

Clip Bell motwhed th the Fullanck gyot. Ore ilimen Marnin bad semse emomgh lon stink to the single winglanck system. The lullbatk in Llat single wing is jusi alsont the key spot and Clip lud menti have apportumity to Joosk Clip Bell. He rook the mapback alinect drom cemter, lall spun, Laked a hamdult to the winglaitk slasting past. He completed the tpill don clrove lor the hole aj? tle midelle.

Powertul Iegs chumed and his cleats bit into fhe curl He drose full stride into the shit al dayligit in the servb line, towst clirough, He stanterl away Irons the lonae of a line backur as he jablised ontu a stiff arin atral med the backer-up as at falcrum tor was lever of his pivat.

He atrove for twilve yards bellore tacklers Washed the legy from tinder hiun.
"The waly to got. . . Way to drive!
ka's sock il to cm. gandit.
Chantering pelpper talk in the huddle. Hands slapping Clip on the back. Clip granted. Sure. he thought. We're all having Tun! Que play gains a litile ground against the scrubs-and were practically Nobitmal Champs!

T
 all the plays that the varsity labl been given. The slember captain hat been whtersimbly to a guarterback whon laad wim dil America ratios lasi year. He demonstrated thon that he had absertued at los ol knowhow from the sara. He rin the team with amrhority. For a pattyeake guy hall of rahrah gulf, Clip though, he might turn wut not so bacl.

It was a very satislactory scrimmage-for thixty minutus. Then Corich Aiann mate some changes in players and llangs hegan to /hate : somp ninge. Ome of the chames shithed Clip bell to me lullbach position in a delensive mait when possession of the batl thag gisen to the mecomel cean-

Clip eyed the rosch and is seerned los at litule space of lime that the [u]lback stare whts going to sal something. Ithen he shouged his wide shoulders slighty and rook up the line basking spot.

A bastrativich knifed though a hole olflathla: Tilu play ame through Late side of Lle line that Cilip Ianked up-dal it molled oner he half-hearted ery that Clip make to natil the latkarrier.
'Two priays lancer the same seruly batck ripped into ilae same hole. Clip did not even reddr hims for at had-hented tarkle. T'lie sccond Luma buck wesu Lor an eighteen yard gain.

Coach Mann eved Clip sharpiy, as the teatns lined up. Clip stared right birch. The ghy might as well learn (To page d2)

# Undersea Hunters 

# In the weird depths of shurli-filted waters off the Bahumas, men stalle fish uith high-powered undermater guns 



A gat madd ght uting al Cot wharge

By BOB JONES

TTHL B LHAMLAN sum is a hot sum, You take if casy the first few days. Your hide necds hardening up before it can take that fieve taking from sunup to suntown. Partly ir's the direct rays of the stas reflecting ufward from the white gands coverist the shathow reels. The dear, blue water is clan like ste air. The hot light penotrates buth with mo interruption frim dust or haze. For three days you take it easy.
Then one morning you hoist sail on the Iitele sloop just as the dawn freeze begins to stir the palim leaves ashore. There's is litthslallow reel to the lee of Rose Cay where you drop anchor. Down below, dark formations of brain coral oustine the reel; and yout know this place is gom fom a practice swim underwater. Turile says it is too. laut yotr uwn instinct has already made you Eeel good abont it.

There's a lot to do. Your equipment needis going uver. After your early morning hour of suiling out to the reet, the plunge over the side and a look or two at the taark edges of the cora! through the glass bucket. there's breakftas to fix and get out of the way. And then you're ready to hreak out the long wooden how that holds the spears. They're live leet long, three-eighths inch thick roumd shatis of stainless stect. The tips have been ground to a point flat on three sides and an inch long. There's ia double lyarb that lats a pin-shaft comecting it with the spear. It stulys back over thic spear shaft. When the point of the spear has drivent through the fishl, the baslsw will spread out, keeping the fish on the spear. These prints must be kept sharp with a File. They get bent over at the lip-end from banging into the coral whent you miss one.
Turlle says there's only orte kind of zuask that's grod for this type of work. It's rouncl with Rexible rubber sides that will fit the contours of your lace when you put it on. Roy and Ciny and you pass the masks around unaib each has wine that fits his lace. The swim-fils circulate next. Turlie calts hean "Lhakfect." 'They'll drive you through zhe water, leaving yem hands and arms free to use the spear. They"ll drive you down to twenty feet in a tew seconds, saring your wind 'lor what's coming later. Yom musl find a ${ }^{\text {anir }}$ that fils smugly on your feet.

T1ut: GLAss-notrom buckel needs wax around the edges where the round glass phate sets into the wooden staves. You've taken espucially goodl care of this turket-kept it cut oll the lost sun when not in usekept the worden staves from drying up by
coating them wilt hard wax. And it doesu": leak a drop. So when you're right over a place where the latge fish are swimming twenty or so fect down helow, you can punch a hoic in the foggy surface of we water to sce what's going on down there, clear as a bell. You'll drop your anchor gently into the whater mntil it's weelged in the roral. And you'll slip noiselessly over the side with your toask in place over your eyes and nose: deep brealth and your "duekleet" will drive you down to the fish. [f you see him right away, you go right up to him within two leet, drawing back the sling on your spear. The
apor to aim for, if you hate a clear view of it, is righ behind the gill and at bit higher than cemer. I'lee fish casin tear away then. It's bony there and the barbs will hold list without tearing. You must also te in position: unt shooting down or up at the fish, but rather straigh at him side on sy the spear sticks up al a Lorly-five degree angle. When the spcar strikes, the flatmess of the fish makes a resistant surlace for the spear to drive againss.
You feel a strange exhitaration as you realize you ate lateling the fish in his own element just is anolier fish (To page sti)


Too large for the dinghy, this 185 pound seabass-speared by Roy and Turtle, had to be towed ashore.


## Ine Bus Boy and

 the Cinimala
## Tommy's keen obseruution heIped to crack this famons true detective case

By ALAN HYND

TOMDN AD MMS who lived widh his parenes in the Grechatach Village district ai New firn, reledrateal dis
 fime lus boy in a French rostantant neat his
 the afternevt, where he clistributed ate naphins. glases, anol silyeruate tor the calalen ith the entithlishment, eturl carriced throwgh dinber. when he servel molls anol baterer and filled the water giasses of tlic patrons, Ile worked Momelay Ilrenugh Sumelay, the restintan being closed Sundays.

I omuny wat a peatis ularly obscrian boy. llis hobby wats reating character, He ued to amuse fouselt by rying to figut out what this or that patroin chat for a theng. Somplimes, lie learbed their actuat problessions, especialty the stealy custometh, an! it oallen turmed oul ulat he thacl ghesed are rectly. lic was encouraged to pursite his toobyy of chatace reading lurther:

Late in the winter ul the vear tlat Tommy wok the jols bhere same to the restanman a stocky, millolecated mains with furtive manner and darting, sitwe-luttom rycs who struak Tomny as being in a ditterent line thar ary of the atier diner, Jommer exuldn't fluite fugure the miln ohn. The stranger berame a seaty patmo. The mare Tonsmy stuffied him, the mure the man disturdeal him. At ieng the bus bot how the answerat least an answer that satislied him. The matu, who spoke Englishe wilh a derided French acceme weds a criminall. Tonney hat Iu prost of his sumpision: he kn+1 in his loones. fowerer, thill he wald right.

A
the wark pasid. and lomme's suspect cortinueal to frequern the restanamil. he lecyan to have compraniuns. The companions, who mecmed atso to be French, calleal the stasper' Gitbrielle. By April, sorme two momble atler he hard lims appeated, the minn calledt Gabrielle labiatually occupieal a big round table in the peat of the place wheme hate and his companions toulde tat and talk in privacy. Gabrielle fad lour combunions ind all. and Tommy was ronvinced that they. lew. were criminals. One hatid asar on his lace,

 cutire aronpl talked in Jows tonch or her at all when Tromity appranthed their bation to serve them.


 Table in the reire. It was als if Gaborielle anul his fotr compmions wrete up to somethingr. Wher Tamby went home that night. he conddn't set the live math out ul lis mind Ther nex diry he fournl his minal sill wandewing to detm. Wiat hat hay been up int:

Semblay morning at lreakitso, 1 momys lather wats rending hat morning praper "Heres a terrible thing farperned esterday." lue rommented. "live masked men lochen a millithaire's whote humethod in at tatuli and gel atway with two humbed hionsant deplats worli of jewelry."
"What a hortible thing to den-lesk perphe
 tamily get oun all righlur"
 were le fo there andic. bun one of the sertansts

 to the inside of tae dowr. Then he pushed it met and ratited through ant turneal dine ombside lamble of the vanll."

TCovary ktale the wroub in the wime when hiss lather hand himishes! with the [aprer. He filled himbeld in on additional detials. 'The yictims whe the crime bad been
 antel philandropian, has wile, ant several servanls. Tlie liooded men. Wat int gons,

 North-during the quies of sumbly atternoon. None of the inuruders hat spoken: Hey had used hacatening gestures lan lier thail weath to domey lu-it connamals. They

 and locked the door, and Ieli tiom to watlocate It hard takerl dik vithims more than



THTASTRATEL HY CAROL JOLINGON
 learalemo wh recoral.

Tomus par the j:iper down and stind

 Ienin We French restameat where In toan Gillest Gibrielle :mal his dour cumpamburs had serned so tense the night hetome the arime 'Jomme was rertitu-just as urrina as he was lati he wothled be late lon se luml it he didin" get going-that the time ment lee


"Dat," lic sticl, "I hink 1 kinow who chgimereal that rablery." His babloce fowked inmedulans. Bun incredulity gave wan to intense interes and soluer lefliel as las listenost in his senis parmes, alaming voms. "Yian conkl be rigll, Tommy," viat IIt. Adans "Al leas in's my duty as a citizen in wherr wonk story to the police."

T
 Thes leta that Tominy lad pot the:3 win
 bunt ander surveillance for several daws, hey suw mo sing of the math ratled Gabrietle and lis lemi companions. It seemed obyionts in now that the guinted had met in the feratu-


 lrated.
I omany spent many howrs lyelping the serestives. [Je desmided the man calleal Gea Jwieils ing great derail, even to the fats that he

 no rloulat in the lons's uind that Gielsichle and his companoms hasd all been Frind. "THow rall youl lor se vele. Tomnur" alsked a demive.

Timany slauged. "1 ins hatow a fiem h
 (o) Frewh atcents in we restamm." The polite incopporated Tommys indomanion illa al lung cable to the Paris Police. The latem were askex parisularly to look thotigh their fates for a remimal whate lirst mane wath Gabricle and whose applatace athwisered Tomay's description of the "appertext Dandit loulén:

Aleantinc. the faliere sent (Tw prg: (1)




W'e set up a productiun line, taking turns wadting and preling. Peeled spands were placed in gatn of water conbaining an teaquonn of malt to prevent them turning hlack. Uisinp dean sharp knives we thade curry plice atr eighth of an inch in Inirklues. Nexi was five minules of procooking in water itartwan jusumder the bailing point.


Next we cherked the trmperature of the drice. Amoul 150 degrees Fuhrenheit is correct. We ueed our Scoutmaster's ext incubalor. It had five trayn made of $1 / 2$ " wire mesh, electric heat ing coil, and circulating fan. A regular kitchen oven will work fine loo. Iutet keep a careful checly on the oven temperatnres at all timan.


Several hands were needed to heep produrtion rolline when we spread the slices of potatocs wut on the "drying" Irays. The reason for an exen thickncas of slices if spparent in this step. Alsu, all slices must le spresed mo lhat nome over Isplo. I'o hee really elfirient the rule to follow is 1.2 His. of sidees of potutues tu the кyuare faut.


If you use an oven leave the door slighty afar to keep the air circulating. Bat, be sure the Iemperature slays below $1 \mathbf{5 0} 0^{\circ} \mathbf{F}$ or you'll have baked instead of dehyirated apuds. After 24 hours in the drier we packed the dehydrated potaloes in heal-realing cellophame bage. This inken fast work-fram the drier into the hame


To determinc: the weight of spude we needed in ench tray we firal meanured the Iray, did tame figurine, atad arvived at square fovi measures ment. This figure was multiplied by 1.2 Ihas of npude per equare fort. We weigheal the tray empty. After filline it bith spads, we weighail die fray ayain, mitiraming the wriginal weight


It's important not to let the polatoes lie around, once they are dehydruted, for they'll sop up water like a sponge. We used a warm irom to seal the beres. If iron is tors hot it ll irom the cellophane. We weighed the finished prorluct, and believe it or mot, aur dehydrated ypuda were six limelk lighter ilian when raw.

Smart campers travel
light. Litepac gear solves the weight in equipment, while dehydration eliminates all heavy, bulky grinb


Carrots-hefrore and after dehydrations.


Currots-wash, scralb, and alice in cold water. Hlanch in live-steam, 4 to 8 minules, dehyrlrate.

# Featherweight Chow 

II DOESN"I' MAKE sense to have swell I, itepac camping equipment and then break your back lugging heavy foodstuffs on your hikes. At least, that was the conclusion of Troop 7, Weston, Connecticut, who recently tuted a "young procery store" on an overnight trip. They groused about the weight-but of course Troop' 7 likes to eat.
Then someone got smant. Ho investigated dehydrated foods, and learned that with the water content removed from their hike-food. their TOTAL PACK WeilGHT would have heen cut in half. The light weight of such chow, plus its good taste, was why old fronticrsmen used dehydrated foods. Also, dehydrated foods will keep longer without spoiling. Those frontiersmen were no dopes.
Nor is there any reason for you to be a dope and break your loack lugging heavy foodstuffs on your next like. Dehydrate your own loods, as Troop 7 did, or purchase those you need. Dehydration charts appear on page 89 , and are suitable for mears, vegetables, and fruit. For sperial delyydrated food menus write to BOY' LIfe 2 Park Avenuc, New York 16. N. Y., for our 8 Day Wildenness Hike Menu containing complete daily menus and recipes for preparation. Send five rems in stamps or coins to cover handling charges.


Dried heef: Ronimal or chnck with litule fat is best. Cut into squares $21 / 9$ x $1 / /^{\prime \prime}$ thick-cut lengthwise of the grain som muscle fibers may be cut cros, wike when lieef is miced for rook. ing. Mix galt and gugar. To each 20 llbs. of neat nse 1 If, Ralt, $3 / 5$ |b, kugar.


Hix well: then divide inte three equal parts, Arib salt mixhtre into meat. whirk should be al ruth temperature. Next place meat in glasa jarsmashed and scaled. Pack meal tishi and eover jare Meat thould pickle for mine days in cool olace. Remove from jar every third day and rub with salt mix. Juice in jare should cover top pieces.

## BY A SCOUTMASTER



On ninuh day remove naedt, wash. suak it 2 hours in vater. Nexi is mmoking-takes 5 th 6 hours. Over a bed of coals place wet woorl chipg. Border fire with rocks on which place a barrel with both ends knucked out. Cover top with wire mesth on which meat is Laid. Next place in drier for 8 to 10 homrs. When dry, paek in heat-sealing cellophane bage.

## The Whirlpool



# A sinister silence pervaded the jungle and Barry became arare that amenace greater than any he had ever faced was storly closing in upon him 

By RORB WHITE

TTHE OMINOIS SILENCE of the jun－ gle at last alanmed Barry．When the sun cante up afecr the long and dread－ ful night，the jungle did not come alive with sounds．Slowiy，this fact pushed through the wall of pain frum Hary＇s ankles and he felt the threat of that continuing silence．

Barry Rentom，Eagle Scout，and already well on his way to becoming a line natural． ist，ordinarily would not have been alarmed by the peruliar and unusual silence．But he wiss all alone now，atnd his physical helpless－ ness made it hardef to contral this feeling of dread．

He latel tried not to let fohn MeCall，the other Explorer on the expectition into the Mrazilian jungle，know thow minch he hated lseing leli there with both zinkles eibler broken or latlly wrenched But，with the Professor helpless－his back probably latoken －there was no other way ta do it．The little， take－apart boat could barely hold two people．
＂We＇ll reach Prorto Vellio tomorrow，＂ John had said．＂I＇＂l get the Rubber Com－ pany to send their helicopter up for you tonortow afternoon．＂Then Jothn had paused before asking quictly，＂Think you＇ll make out all right，Barryf ${ }^{\text {² }}$

Barry had tried to the funny．＂1 can do it standing on my head．＂

That hat been yesterday morning．Now Barry had been alone for almost twenty－Cour hours and his ankles were swollen and purple．He recalled the accident resignealy．

Like most accidents，it had been simple． They were using a fallen tree for a byidge atross a desp hioge．The trec seemed to be strong encugh．It wanat．Just as John reached the etber side the tree loroke，drop－ ping the Professor ant hity town irsto the rocky gorge．

It was then that John，also an Eagle Scout． really proved himself．［Tsiug the light，cwo wheeled cart they hat bronght to move animal cages with，he hat gotten boolh Barty and the 「rolessor back to the cantp．Thert， betore leavitig in the lomit，hat had made the cart into a sort of whecldant so that Barry could move himself as far as the Lister bag for water，or to the towd locker．

Bting alone，belpless and in pain sharp－ ened Barry＇s setise ol＇dinger．As dawiz， the jungle should have come allive with noiscs；the howling of monkeys，screeching macaws，all the birds and bensts should be making noises of some kind．But there wasn＇t a sound－110t cyen the chirping of insects．
Anything tertable enough to lrightern the whole life of the jungle must be also clanger－ was to bim，Barry feasoned．He realized too that the open area of the ramp migitr become a death trap for thim．
The Protessor had chosen the site because it was pertect for arranging spectimens．It was a very large triangle of that，hard－parked sand．One side of the biangle was formed by a sheer，stone blaff rising some fifty leez to a jungly platean，The rolver side was ［ormed by the river，its black，placid water giving no hint of the deadly fish which lived in it．At the top，the triangle came to a point

where the river cut through the thluft，rim－ ning between two vertical walls of stone．The bottom of the tritugle was the long line of the crowding intyle as the river twisted away，In the rainy scason，the whole areat woutd be part of the river bed．

Not knowing what terrible ding was tom－ cealed in the fungle was more than Barry could beart．With great effort he wheded himsell all the way down the triangle to the wall of jungle．

He could see nothing moving but，slowly， a curious，dry，Eain rustling somat came to－ ward him．There were no footsteps and it was not the dry slithering of a sabke，nor the swisll of wings．

$A^{s}$He watchecl，a young tapir ran accoss a clearing．That surprised him，for tapirs are shy，night time animals．
The unpleithant，dry ruscling grew Inudet．
The tapir began 10 scream．Then it slat⿷匚 gered back into the clearing．

It stoad there，sereaming＇its legs showly collapsing．Still Barry could not see what


wats attarking it. fle suatined forwate
bushes midele secing hard but, to Rary, it lousked thest as bhengh montw latree, bhath thing was stallowing the batio. The blath
 but woplage to be one.
fust belora folan hat gome densat viner lite had toromght ifee es, Roberts rifle amal pur it in the rlain. "Might as will lsig solute "feriments." he has joked.

Now biatrs wat wlatl bo Fec! the gun in his
 mess. looking for a head, or ton a part ol its bode pheve it In lifed woulat stop it

 ty towatd him erneloping escrybing on the ground wilt horsible telentlessness

It passed oter the lat pir arad lyeyaly trick
 been eater until ouly its skeleton wat lela.
'Then, as he recognimed his ememy. a sisk fear mooled through him. Slowly. lie pur the rille awaty. for mog got could protect him

From the thing creeping loward lime somety but inexorably throught ilo demert pangle. , hats! As thev fowed closer, loc sitw that [rey were olle lange arm ant.
For as fan as he conld tee the fongls llom was mapered with them, while where they had passed dhere was toral desarmetion. To them power and size meano nothing-any lining thing cataglat in theis line at mata went dowto, poisoned into helphessness by theis thates athed ment eater alis

Baty knew lhen that he latal lucon sighothe camp site mos if death trap. He knew that she blut ran for miles into the fungle, angling etway from the river an that one river atal ploe Iblaty fonmed 1 wo sides ol ath emon moks funtel. [)own it poured the ants.

He rouldn't satape fay going athound them om cither side fon il would lec impoosible to get the make-shilt wheeldair throught tho Pert of the jungle. And he cutatri" stimb the vertical lace ol abo store bontl.

Slowly. his miad goines sick with alle realj-
ILLUSTFATFE HY WILIAAM GREGG
fation. atal hor rom crawlims ath him, he knew Hat, wher the ants reathed hion, his only escripe from them would be to chy to live lomg cnough to swim, somohow, across the rivel.

But-could he escape ulic jiranliat in the blach water?

He tasin" too alraid ol wocobtiles Dum the litule, deadly pirandar, Fislo whith looked as innorent as perth. wetw as dangerons and homible as the ants.

H1: RIsambartio at large peccary which hat wied to escape droma johat by swituming. Swarms tof piranha had cauglo it in midstrean. For at lew minates there has been a bloody boilingr in the water and wern-nothims

I lis onty other shorice wans to fight the atuls. Bum how Thirry knew Llorl frere wawn'e a beast in the jurige big coough or strong enought tright thenin. ho how coulel he. arip.
 toward hink and now he (T0 poget 6 )

 ting the twa Vumber blogethe will lbe hickory rope



HEM ~

"FELLED" or SHIRT SEAM ~







BY ERNEST F. SCHMIDT

MATERIALS NEEDED
7 多 yal. light canvas or rusblin, firi" wide

12 yd "will tape
22 grommets
$95^{\prime \prime}$ rope (awning rord it best)

Dye (browit or gread)
Waterproofing

STEPS IN MAKING

1. Lay out material and cti
 rectangle
2. Mark and sew on tapes
3. Sew on patches
4. Sew hema
5. Set grommets
6. Altach ropes
7. GO CAMPING

TTHEN EARLE McRINSTRY was experimenting winl simple lighoweight shelters be designed the Hickory Tent. It is compset, yet allords ample room tor you and your gear. lt cats be set ap in a dozen differens ways, hou its big advantage is its extreme light weigh Made of bation cloth it may weigh as litule as three ponnels.
On wionty nights a litale fire in front ot pour Hickory Tent will keep you watm. In the summets time al six-lool sfuare of mosquito neting (or beter, marequisetu durtafo material) will protect you (row bugs.
"Tips an tentage: Always dry your tent well after using. This prevents mildew. Protect your tent in a stont canvats bag when it's not in mse. On small tents use nylon cord insteat ol rope-ie down't shrink. it stays dry. it's extremesly strond, and will never fot. Pitch your tent across the wind or at an angle. Ditching is very rurely nccestry,-GOOD CAMPING


# Yoo Hoo! Mudhen! 

## It takes more than a folsetio wore anal lipsifek to play the pari of a dame In the sehool play and after Crame iried to mear" shirts mothing nsts the same including the Repman living room

## By MERRITT P. ALLEN

TDHE MUDHEN dictn't like she way thiregs stood. The dfallatic club wats his lavorite school meganations, for lie loved actitg. but when it cass him as the heroisue in the big play the was displeased. Not that the cralnhed openly: he said nothing for all it have his ego a terrilic gripae to be a blonde in at Moppy skirl and pickure bat. It was. he fels, a slight on himaclf and a reflection on the thanliness of the whole Eagle lrat. The choite should hate gone to a Bear, as thos jerks had no tratitions to upholal anyway: yet one of them, Rip Anderson, had been given the luero's rale.

Riya was at grod aclor, lyu what dicl he lawe that The Mudnen slign": have? Possibly a drafe with the comonittece especially to No. Beemare to whom lie wats very nice-oh yery nice. the old taxd The Bumble Bee, as Mr. Becman was callent when hot present, was nat onte of the lachily, lon the nchool was his hobby and, is he spent considerable moncy on it, lie was given some valice in its affairs. I-Le was hepped on dramiatics and had reached into his pocket more thati once to encourage that irs in the school. Recently he had exen donted an Oncar, that is, a plaque of sbme sort to he presented to the student who showed most abilisy as and actor during the year. The Mushen hoped lor a crack at it but now. with orly a sissy part to pliy, hone was near to going over the andm.

He brooded on this and it cilid him no goxal. His interest in acting waned matil I. B. Lecanne woried. J. B. Was the Eryglish prol wha cloubled as tramatic coach.
"What's wrong. Crane?" lak asked blunily. "You're mal die actor you ined to be."
"Naturally tust, sill:" The Mudinen sighed wearily, "I'm an artress."
"So that's it!" J. 13. never pulled pundhes. "Sulking in your tenn becruse you can'ı have the part you want."
"No, no, nol" The Muthen protested. "'It's non ithat, sir. The mouble is E lam" know fow 10 at irs ankiri. Wherm J'm warin' the darn thing I don"t know how to walk or stard up or sit down."
"Oh," J. B. looked telieqed. "That will rome with practice."
"Bul it anesn't." The acmess threw ont his hands hopelessly. "At rehearsals, wher tall the guys are watchin me and srimkerin", I just get worse inhtead of belter."
"I kinow you do," J. B. satithonestly. "Bul,

"I'd like' to know how."
"Practice: w I mad. Fantiliarize yourself with demininc atione. Wear it till you tecl at home in it."
-t Jeepersl" The Wadien gasped. "Mo you mand I've got to go around in a skitt all the time? fill leate school firsl."
'Don't ake me so literally. I mean practice during your spare ibns in vow room."
'ln miy ronm? With that foommate ol mine! "
'l am sure you can comm on Bates' loyalty."
"Even if I can harrdle Frog. the other guys"ll pel onto it. especially the Bears, and there won't be standin' rogn. That would be no place for a fellow to loe a lady. sir."
"I ghess you are right." $\int$. B. smiled at the possibilities. "Bur ] hatwe is. Cratel Come over 10 my house and practicc. Ay wife has a dress the swic of vorr sage costume. She anct I will coach you."
"I conldin't montble you that mucta, sis,"
"It will be a pleasure. touly it will be, We can solve dis problem ift our own way and no ane will be the wiser. 1 won't take no for an answer."

So eventually Tlte Mudhen yut his late in the hamels of his iwo comelies. He slidn't fancy the idea al woming hard to become satdylike, lust his dander was up. All right. les 'em cast hims as a dame. By golly, he wonld be the best dame chal ever waved a rufle. Fe would show 'en that no matter what they dished out he mould take it and like it. He woutal wis Iteir atatimation if it took his last laairpin.

Under the sympathetic ancil skillitul afineclion of Mr. and Mrs. J, B. he went at it with gusto. Evening after evening he slipped out of the dorm and over to their home, where he parked his persomality and dunaed that of the beroine, Chat in a leng bloe drems, a Blonde wig and a sweeping hai he walked, sat, werit tupand down stairs, ate, drank and otherurise went through the motions of a perfect laty. He workef like a dog to learth ihose new tricks.
And he gol remaltw. Alter ata of the rehearsals at schogl Rip said admitingly, "You're a swell gal, Mlud."
"Uon"t gel Iresh, squirt," 'The Malhen warned, iti his sweetegt highest lalseto.

ILTUSIRATED BY CHAS. HAWES
 stull umaks it easier for the rest of us."
"How definitely super at your fou hig handsome nan!'
bur Kip's praise gave hin a lill. Jis confitlence wis returning ist triumpl) athl with it came a desire los shate the victory wibl Frogpie. So he took his roommale intor his comfidence.
"Huh!" Froggie rommented, " ikll that work so you can itct like a sissy. "l"hat ain't so hot, if you ask me."
"Somebanes," The Mudheat said! wearily, 'your lave less perseption tum an tanderfrivileged tish worm."
"I midy be dumb," Froggie admitted, "bont J know they insulted all the Eaples when they gave you that gad paru and l don't see why you are hajpy about it all of a sutelem. But, of collese, if you want to wear pansies in your laze aud call youself Agnes it's mot my business."
( AN't rou understand, Frog, it's not the - pari, but thi way a gay plays it. Ihat conntes?
'You samatimonious, dopel' Yon'll 11 'wer get an Oseat that way."
"I don't case so much about the Oscar as I did. Froge 1 wint to show Liose Dears 1 ran swallow anything they put an my plate,"
'Heck!" Frogpie blinked at hisп. "Why tifin't you say so in the firsi placer Anyluady could see it that way."
"How wonderlul you are"'" The Audlen mood up sawly.
"If I can help. Muel, just push the bulan antal l'll the there."
"You might, at that, To polish up my techmique l'm goin" to doll up and take a walk llis evenin'.."
"You"re going on the street in a dress." Fropgie staved.
"Sure. I[ I get by on the street I'll lowas a lot mare confidence on the stage Come along and be my boy friend. Savwy?"
"Yeh." Frogeie sounded anybing liut enthusiastis" "But what if we metr somebndy we know?"
"They wan't recosnize Mrs. J. B.'s dies.s."
"I have a feeling we're putting our heakly in á Jion's mouth, Mud."
"Stay loane under the bed is you"te afrait of "ions."
"I'I] go il you do."
"O.K. Come along."
Sa they went brazerly. (To pape



Among these colored sands pioneers lost their way and died of thirst. The survivors mamed the place Death Valley

# Death Valley Adventure 

Where Scouts explore the mysteries of this weird desert land

By JOHN WOODIBURY


The fumons castle of fabulurus Death Vallity Scoty

TTHE Indians called it "omesha-"ground afire"-this long, low bowl of burning desert in souhcasrem California, a region of devolation nearly twice ans large as the shate of Delaware and lower in places than the level of the sea. But white men, blundering into it in their march to the California gold fields and almost perishing there before they esraped, gave it the mame that it liears today, more than a contury later. They called it Death Valley, and this is how in happened:

It was the winer of 1819 , the year of the great gold rush. All America was' lewiteched by the news of prodigious wealth that lay waiting to be taken from Sutter's Fort. ond the banks of the Sacramento. Thousands of emigrants struggled westard through the wilderness. Haste: was the watehword of the day, for the golel would not last forever.

And so it was that one partictalay band of 4y-ers-perhaps a humedred of them-broke away from the established trail in quest of a short eut. They spairmed their way through a mountain pass and dropped into the great barren valley where no white man had ever ventured before. There they found themscives ronfronted with a ligh wall of mountains on the west. Their food and water were running low. Despair and panic overtook them, and the little band began to spliater.

One group, known as the Jayhawkers,
burmed its wagons, hilled its oxen lor meat and finath made its way on of the valley to the north horther group. salled the Benned-Arcanc pamy, canped along the tast sale liats ol the valley floor anded sent two of its men to burnt and cxit to civilizatom.
More than doree weeks passed before ibe two men retamed. Endaring prolound hardships, they had lound a pasm lhooigh the monntains. They assembled the gaunit travelors and led wem bun of the sill flats and up the mountain slopes toward salecy. Rearhing the orsi, the ' 19 ers pansed. They looked back upon the huge sinkhole which had almost beome their praseyard and spoke the words whidr gate the region its natme:
"Good-byc, Dcath Valley!"
It wan just 100 years plus a few monulhs fater that toe lollowed the urail of the goters into this region of domm and despondency. There were about 700 of us-Scouts, Exfilorers and abeir leaders from all over the Hoover Dan Area Conncil. Lron Tremps in Nevada, Arizond and Californiat. This was the Council's secons :annal Death Valley Trek, and by far the biggest.
We'd picked a good lime lim it-March of this year. For we knew that within a month or so Nature would turn the heat on in Death Valley and transform it into something that was ance described is "'i reasomable facsimile of a Cirst-class (To page 53)

## Yale's famons coach and the man who helped create Blaik's great andefented Rtack Knights insists

## that a team is only as strong us its defense

# Football is Tackling 

By HERMAN HICKMAN

SVENTY-FIVE thonsand larls jammed every niche and corner of the Yankce Stulitum that Nowember day in 19: 6. 1hese chosen few were only a traction of the million who had attempred to obtain Lickets. Newer had a kimplyall gane createn! as much mational intercst as this AmmyNutre Jame ganc.
Blaik's Black Knightas were omly at whel! of the grath Army teanis of $19+4$ and $10+5$. Most of the limenem bad gone, bon making Cheir last appearance on a New York grid. iron was prolwaly the greatest one-two punch rollege lewaball hat ever known: Glen Davis, Mr. Outside, ant Felix Blanchard, Mr. Anside. Nor quite so well kituwn before the game, but destimed to be the outstancling uian in the grame, was Armold Tucker.

Chis combaination laad scored mure points than any backfield in the modern era. Wichigin had beyn die only tean th Joha them to ats lew as three touchiowns in a game.

Notre Dame wha evell more potent. Batek of a huge and experiencod line were Joluny Lujack, Emil sitko, Terry Bremman, Gerry Cowhig, John Panelia and many others.

The great liank Lealy, one of the moss adroit conches in the game, had just returned from a hith its the Navy. He wats continuing the Imilitiant branef of play that hat marked his luss seakon of tonethat! in maty with the Natomal Championstrip. Ile or his metn dichit know the meaning of the word "dereal."
Borh teans had run rongh shogl wer their opposition. Buth conches prectited a high sxoring ganae. Nothing cotid stup the Rbanclands, Davis's, Silko's and Bremanas from scoring.

The Soure: Aroly o-Notre Dame a
The: anticipatent high scoring tray tumed out to be a tackling duel betweet iwo spiriest and well cosched teans.

So 1 cam is stronger than its defense and the lasis atal barkinone ol detense is tackling.

The fongest rurs of the day wats made by "Ther" Bandhard. It was lor twenty-hree yards and would have been for a touchdows excerg for the sufety man, Johnny Lugack, whe brought him down with a beaulifu? ferme tackle. Most of you think of Lujack as a great latll hamdler and pusser (which tie is) Dut to the lie is onte of the ourstanding deIn onsive backs that the ganse has proctuces

Blanclaral, 100 , hatel his moments. No one who saw the game or the mews reels will ever lurget his thutuling tachle as be came
 thad makling sfoumld lut high, maftmond burd!

少 Lrom at hallamk prosition tu sup Emil Sitho ont a wide end tun.
Foolh lines kepe the great ruming backs "Bermeet up" Dhe tulire gathe. Briflatil Latklimy was exidencal en every plity. Two men, ith particulat, stand oul in my mind for making tackle atier tackle-Shelton Biles, a willowy isu pound Any timate, and Gerome Sultivan on Nonte [3ame. They were everywhere on cyery play.

This gante was at ifate to tarkling. General K. R. Neylanil, whase teams at the Unisersily of Tentessec led the nation int thefense for a periond of hilteen years, said that he comlel te:ll whether at learn is "up" for a patticalith gime by the way they tackled.

## Tarkling ia Natural

Blocking, in frotball, is an unatural fundinemal to learis. Y'm must absain from asing your hanuls to hold an ofpponern. You mons contrive to kepp contact with him while your tamds arte clate to pour lasty. As


A formp All-Aneripa Fatble whankl knew
I said in : previous article, yons truss estab lish "hathit ta pertum it legally. Tacking is thatural. The first instimet of an haty is tes griap soumething. 'The' rule book toncisely and rather imeply describes latkling ats "grasping or cheirding ant "pl|xHent with it hand or amm." It deres not mention the thrill af etriving a shmulder into the ball carrier and stoppping hitu cold in his tratks. To the real player monhing else is quite as cxhilarating hus letore 1 get into the exace lundamontals of tarkling, I would like to say a wort abour erpuipment.
The thast importan pient of equignath fon a fontloall phayer is a gonel head gear. No player whoukl be allowed to participate




Hawailan aloha shirts and palm hale were in demand

Heaviest swapping conter was Inturnational Section. Brilish and Amprican Scouts bargaining


AT THE JAMBDIREE

©WAPPING IS AS mative to all Americans as maple sugar is to the Vermonter, movies to the bouthern Califorman, and bragging to all Texans, We seem to have inherited it from our pioneer ancestors, who bequeatied us the term Yankee I-Iome Trader. (Ycah, Dixie-you Loo, Suht) The sharpness of the Americant trater received world wide prominerice as a result of our clipper ships which sailed the seven scas. It was part and parcel to the economy of the growing west during its infancy.
If any historian or sociologist, or any other interested person, thinks that trading as an ant is forgotten in thesc modern times, he should have seen the National Jamboree at Valley Forge. It is reputed tlat one Scout from Texas utatered but a single word the emire time he was at the jamboree, yot never kept his "Oouth shut. Naturally, he was walking around repeating the single question, "Swap?"

Swapping is the Scout terminology for horse trading. It has no set rules, requires no preliminaries, and can happen whenewer and wherever wo Soouts get together. When nearly 50,000 Scouts gather, as riey did at we famboree, there wasn't even time to get in out of the sun. You just sit ,'nom ans started swapping.


Even on a hot day, swapping in this farm was lols of tum


The animal kingiom wats Iramsplanted far anfl neal by ewaps


Southwestern hornorl trials sonen became standand livequoch of the Jamberee exelange

## PHOTOGRAPIS BY BOR JONES



Smout patches were she zmonit popalar swap items

# On＇The K5 Roundup 

Being a rep wirh the Roberts Dutfit meant that man hud to proce himself to be a real comboy and bed nas trying mighty hard

## By NIEPHEN IMNVE

＂H
 I＇Il ther－owe it a－a－wiay＂

At this lust stmantins tut break．
 Hammond sat up in lecd．hhowning bokk frosty tarpandin and soopans and blankets． ＇his acion uncovered Jod＇s bed partner， Sped Arthur，the day wangler，who com－ platned，＂Needu＇t lse in atis a youk．＂
＂I deait want Lo keep Foral Riolsorts wair－ ing for rate tue werond，＂｜ed answered．A sumby，blond young lellow whose chueks were notiomaly tree of whisher subbble，he was quickly pulling on overalls and souks and loums．＂Nos give Bent Simmuss amolne ＂hance ro leonaw ma，＂lie abled．

The wrimglea groaned ansl sal ins．＂Herhs It ain＇t only beve who pous it on you．｜ed． They＇ll keep ramin＇ou till you prove youl－ self and git accepted as one el the cowboys．＂

Jed＇s lace bighteneal momentarily．Ill athout him．The riders of this rommolys were ralliug ant in their taldecoseled buds spread
 al two ohlea litir sized ces outhes and atse several metn represturng small onnacta of stomk．Jed Itammond was sme of theqe reps． and had janmed the hig rommelops in gindied dis lather＇s Lazy 11 cattle．
 fud cowd hear jangling bells and lxal ol
 a a yy．The cook＇s fire wato a briplit sun in the dimmess，revealing ole weatimered wid cook and the cluckbox end of his chuck wagon．The aromat of collec．，the gornt smell of staks sialisg in Tumb onebs and the It ager－protuking oflor of lakian himaita groeted Jed＇s nomirils．

Not far away，eows and calsea legan la bawl ins a herel of catale whinl hard beren
 faman lygures were mathing a run on the wash hasin and die towel，then hllines haeir plires and＂ups from the cook＇s pots at the： wood tirs．
Jed tugged on his hat and his coill－a lian m the hat thome－anel answered Spec Arthor． ＂Yon know，I＇m just achin＂to be areepted ats ane of the cowboym．＂

He rolled up the bed，carried it to the lowarlas wagoin and troppert it wills other Ired dolls aldeaty piled there：Ile abomed his face and lands in told tiater，wiped them on the overworkeal towel，athd lefl in line behind other cowboys setting thew subb lion the cook＇s pots．

The gavy bells were silent now．Whe aow pemans imanclied guiclly at the roge nor－
 shin cosa and chans，whishling an lex ant his

 and the last of the stars tanter oun and was gone lrom the high，dark－blue anc lar ower－ head．

Jeal put his dixhes in the cook＇s werking pan，gut his rope from his saddle and hur－ ifed to Hee arry where Ford Raberts was topism barses．This lanky，horse－tined．ves－ crall cowbay was lammari of lhe grear $K$ ． $H_{6}$ was inlses boss of the remotulup，and in Jeal＇s opinion，he was be greateal man in the world！

Leading a chums brown plag ant at the bunch．Rulserts saitl briedty．＂Here＂s vour cirrle hosse．Jcal．I ake my bipe all hisu ，and pul yorirs bil＂ima．＇
＂Tlhanks．Ineathed Jat．Whatedpon heal Simmoris．Whas had roped lis owin momma． timmed：
＂I never alsk motmols for atcli my homse lor nice＂

Kuberts save the wosky．Illmathased amil

 wath Husbithg warmly as Ince led Brownte to where lis hat lelt his sakde＊．It was and old Wrenh of a sadula，sumd was patacticaliy held togs－lher with roparer fivels allal rawhiale vings．Jod must make it do motil lice conld wot hambite enongh sioney to buy a bew one． But Bert simanears＂jeers ahount fed＇s oullia and his homes werte hard la bike Jed hard thonght of telling the hally that he w：a ：
 prowed that to fiert，it wembld hit the math hartler，
W＇hile he wis saddling Brownie，Jed took nate thra several al othe condorys＇wircle lootwes Irad＂kinks in Ileir back＂this mornang，and were ginging and rolling bisir cyes whor frosty sadde：bankets were blapped across their backs and sinches were drawn light． He wasm＇s surprised when one cowloy called， ＂Weat luits to the ranny wholl take the rough 13：l llis bronc for me．＂
 who poulal ride any lucker lor a small sum． In belore inyoue olse coukl spak．Jed cried impulsisely．＂I＇Il taki＂wo．1＂p＂＂ッ1 that， ＂mily．＂

A
 were tharing as Jed stillte リリ juto smiuy＇s sidedle．bridle retion in lis teli hand， tiuht raised alaft．Sinity turned lonsed Ita Bromes lazal．and the horse exploded．Jod lelt himach slipping，and regardless on the lat lhat is was shameful and lamiliating in pul！leather．lic reachul for the saddle： horm－to catch insecad ol handfal al Irosty sifge brusit．

Hall stumed，Lue at up，dazed．Blisking his cyes，and lhrougs ilie humming which lilleal his eats．he hearrl Beri simmons jeer． ＂Hablatwhaw！The＇sed Inoster busmed athe sud！${ }^{1+}$
 villode ind rath to where jed sat．＂Hirv．＂




 Roberts was ginimg hand to get up.

What mate you try is. whell you knos you can'l rite horses like that one:
Jed pulled in at teep loreath, and willa the hope that lhis great cownan might mader. stallel, he blutitel. I've gon to mithe somb moncy.
"Yesp" Robers' eves were probing fed's "You'd aisk your nuck to make lour liots. som? ${ }^{2}$
 bit at a tume. I'se accumatated thiry dol-
 1-1 hoped I cobld make at tew dollans by wop. pirlg of thoncs. $\mathrm{I}-\mathrm{J}$ 'll try again tomorrow "Ilow'd you muke Ile thiriy bucks?

Roberta' interess was wo gemine What il dug a lrom Loe in the ssil as he repliech. "Oh, I goo hise dollass lor hatuing id load of wood 10 al rancher. Limb f:ll and wincer I mapped coyotes and muskrats and sold the pelis. I mate a buck and a hall by danbing the whowl house und--'
"I sec," Roberts rus in. and monted his luad ats if le apmomed. "Well. Let's be thotin':
jext motned his mold old brown and joined the prunchers who had buncheth up and wore listening to Roberts crisp orders: "We're bunching at Atkali springs, boys. Blaine, take four meth, ride [rom Mountain. Curtis, six men, go plomb to the heard of Roaring Creck, atac the lansil like a curry conls, bialt Cook, thee mer, work Akali

Hats. Andrews, cigha men: lead a drive alond sher space Ridge drop 'en off all atong the way. I'tl take the rest with me. We'll be workin' Goose Creek Valley, boyss."

J
 $\int$ cowboys. is tiley topped a low hill, he looked lowek anet saw riders stringing out across the sage: Ite sady the didy herd (the atile gathered and held so lar on this rotined up) like a dark snake lall is mile in length -wrigeling and colorlul-crawling north-
 had been hoaded. and wach drawn by at lome horse Leam. were on the mone.
In lancy feat cond see the right wanger bedted down aboard that hoodlum wagen, and the mally did see the casy-bay horses. dulus, blacks, pilitos, brownts, mains, whites, grays, falling into line, like trained soldiers, behind the wagons. Day wrangler and Spec frathe wats bringing up the rear. And the surs was bursting out of the distan! hilly horizon. cried, "Boy! It i live to be a thousturd, I'll neser see anything lalf so wondertal,"
"Elul?" saidy a cowtroy blankly. He hijpped aront in his saddle. "Oh, ye-all. Sat-xy, tis right purtly.
Roberts turnest his hatal, antel wheled his noun and halted it. There was at look in the wrink lecornered and hall-squinted eyes of the greal man of the oper tange which told fed that he, too, was thrihed.
fllustrated by Nick eggennofer

The sun stinalual higher, dispelliny ths frost and beating warmat inter the riders
 des, and then rode on. And at last the dellrite pation of "rirest' ithing" becanme erysial alerir io Jeal
 dus from lar comers towalat ons central
 tone sutall parton of this and open bane bring alocal of thern the trall-wikl tatide.
 buter and lesser hills, from wide liat, tran deep ampons und ated bormums athed gullite to one poim- -the bunch around.
Heras keph pouring in from hathy diter:ions 10 Lorm one maill herd, Dust. bulle fighting, the cherlating hoim of cons and cillues lezwling lor one anafter: comboy, stashing chery which way to head oll rectit citram animal colher vepanately or in bunchos, whtil its lengein the berd quieted atokn and becanle mort on less stationaty.

N- ot far frum his bundy grourd, the cook and his tretper had pild hed comp Whe bed-wagon driser carrying water and rusbling tireword, while the cook made din net. In the oferm beyond the waymer, the (any hath grang beon the wramber would
 cond change momats. Artal, nomewhere in the distance. faloditime slows tomaral ohis ranip wals the thes herol







 Why ${ }^{\text {What }}$ 学


The NONSLCH Prarul has liad post-rpaluate



The VOXSLCH Pratrol knows the reyulatiuns. Rule for rats is "Krep Riglu." Nom monsider"


The NONSUCHers are real outdnorsmen. They can fell the three live trecu they noed to lical theis ambitions dinner of l'make and ranned jnams.

 ing out if lrook willer is purc. The fellows ins:


The voxsilicil Patrol erwelz liehbi. The Inme luring ald they nerd-expept the hiteliwn wink
Thuy only lake flan when they reash neyd it


By WILLIAM HILLCOURT

NATIONAL DIRECTOR OF SCOLTCRAL＇T
（NCEHT WiONST a story．．．uhere was at pang．The fellows decicded that they waned ro become scouts，so they made a Patrol．One ol them said，＂We＇re gen－ na be so good that people will say，＂None such Patrol ever existed．＂＂J＂hat＇s how the Patrol got its matne：The NONBLCH Patrol．

And were they grood－1 mean，good！You shauld have seer them！They knew all the answers－not exactly the correct answars，but，after all，you can＇t expect every－ thing．When the NONSUCHers went hiking，parents along their route philed their children indoors－so that they could adnare the hikers froms the windows．When they what camping：land owners fough over the privilege－of sending liem elsewhere．And their Good Turm－they really would have been good－if they had been turned over．
Sorry we don＂t have twenty pages to tell you about the accomplishments of the NONSUCH Patol．But so that you＇ll know what we mean，we went hiking with the NONSLCHers rccently，and shot them in action－bun only with a camera，sorry．Now just take it easy and look at the pictures．

What whs hiats What did you saya＂＇lhere never really was such a［atrel as the NONSUCH Patrol！Couldn＇t bel Als Scouss ane proud of their unilorms－that＇s why you neser see camonlaged lellows like the NONSLCHers，but only well－unilormed Patrols！：If Patmols ask permission betore trespassing．．．tase dead wook only for Hetir fines．．．dean up completely adter themselves．You＇ll never sce a Scout Patrol bake ovel a road stand ．．or drink untent ed water ．．．or hitch hike ．．．or travel ou tic wrong side of the road ．．．or ．．．OR．＂

Well，anyway as I was saying when I was so mulely interrupted：＂Oncest uponst a story ．．＂You go on from there and figne out for yourself what is truth and what is hetion．

PHOTONRAPHS BY Al＇IIIDI CIIAMDERS，CALTOOVS UY FIANK HIGNEY


山平hy hike whers yun＂ce hiking when ven don＂I have to hike？＇The MONSI CH slogan．Hiteh hiks－


 Jow the leader？If Tenderlool fele can＇t kepp ир．he sun go home－he ain＇I noblaly no marr：－


As the sun sinks in the weat．Fnn＇ll aee the NoiN－ SICH Patral engioyine itaelf all over the ratel Orember，you mot＇t．Rul then，wara have brakest


NONSUCH 出mya ure camoullage cxperta，Wilh an effurt they louk like a Imomeln of tranper that not evern the FRI monuld renornize ass Somate．

＇The holanist of the Patrol idenifind this pretty platal as Virginia Crispuer．If ihe fellow stary ilelites．Ihev＊il hame it an sumelling they ute．


Landh ut $10: 30$ wherever they arc．The land owner may have the sureaming theemifs later －bit 1he NOWSIr：A wrin＇i be there lo thear hinna

# Satellite Scout 

# Even before the spaceship reached Ganymede Bill decided it was 

important to have a Scout Troop on the new planet and it sure was

## By Robert A. HEINLEIN

## BEGIN TIIE STORY HERE

BIIT., A Catifornkia Socont, amet his dace are
 route to a new colonw on ilee phanci rammonede, at satellite of Jupiter. Mrialy them are Bill's stepmother and hatioxizter. on whom lie is tot entirely reconcited. After Talast-rill passengers are per-

 Itill's bundermm abey exapse Noisy Edswards, who knows more than the capain. Noisy is returned to the romi anal strapped down for discipline. Just as Bill is cleciding Ilint Noisy will be a mussance, the land speaker anmounces that sifin will be placed on the ship. He stops wondering about Voisy astol awails with suspense the real beginging of the lorga orip throutgh space.

## Paritwo

SIOWLY WE DRIFTETS to the outer wall of the ship. That made that wall the flowr gathatly we gol heavier. Noisy was still strapped fur; he yelled for us to help thin down. We were discossing it when the sume aide came in. unstrapped Noisy, and told us all to follow him.
IThat's how I happened to altend Captuin's luast.
"Captain's matis" is a conrt, with the Captain as judge. The aicle, a Dr. Archibald, told almut finding Nioisy wandering around during inceleration and the Captain asked Noisy if he had heard the order? Noisy had 10 : 2 chuin it
Capain Harkness said, "You are an undisciplinerf lunk," then added, "You disl this because you were linngry?'
Noisy nodded.
"Ten dnys laread and water," said the Gaptain. "Next case.'

Noisy inoked shocked silly.
The nest casc wals the same, bell a woman. Slee hat had a row with her mide and had stomped off to teil the Captain-during acceleration.

Captain Harkness cut her short. "Maelam," he said, "have you ever washed slishere"
"Why, nol"
"Well, you are going to-for the next four hundred million miles."
I looked up Dad afterwards: he and Molly had a stateroms, Peggy was there, but wisit-ing-all the kids over eight were in cormibrics. Dad was shilting their couches tu what was now the lloor. I told him aloont mast: he nodded. "We saw it in the screen."
"George, the skippler of a ship is an absolute monarch, isn't he?'

Dad said, "No, le's a conssitutional monarck. But he's a monarch."
"You mean we have to bow and say, 'Your Majesty"?" Peggy demanded.
Molly said, "I don't advise that, Pcg.'
"Why not? It woulk be lun,"
"The Captain would probably paddlie


I lanked down into the thoturn of fle miverse

## you."

"Oh, he woulda't dare!
I wasi't sure. I remembered foar lumuled million miles of clirty dishes.

Captain Harkiess didn't act like a mont arch: he had us elect at ship's cousted. 'ou know the first thing that conuncil didr They thericled wet hat to go to schoo!!

School masn't too bad. We started with a tour of the ship. whith took all day-"way" by ship's lime. The Maytauer was top shaped. The point of the top was her jetChuef Engincer Ortega, who showerl us atround, called it her "tomed." "The round end honsed the control room, the Captain's cabin. and alicers' stateroons. Ihe power plant was shut ofl from the rest of the shop by a radiation shietil that ran tight through the ship. From there to the control rbom was a cylindrical hold a handred fees across. We ware carrying suaf to the onlony-mathinery, soil concentrates, instruments-T don"t know what.

Wrappeal around this cyfinder were the living decks; "A" deck was the skin ol' the ship, then "B" and "C. derks. I he artilicial gravity from spinning the staip siode dirertions conlusing-any where you stood semed level, but it you walked far enough you came lack to where you started.

Spinning the ship had another old eflect; all around tas was "down." Mr. Ortega took us into a view gallery which had a bigs quarta plate in the floor, sumrounded by a guard rail. The first Iew backes away puick and girls squealed. I pushed forward and looked
down and was staring into the bottom of the univerke, a miltion, trillion milcs below. Stars were reeling across the hole, which made it worse. The Bip Dipuer passed under me, slicl out-and a few seconds later was back. I said. "This is where $\rfloor$ came int", and lacked away.
We went through the hydropmaics foomjust prants growing to replace the oxygen we brealled. Then be Chied lad us into a mess rums, and told ess abont the poticr plant. He said there had been thee rypes of ships; first was the chenfical-luci ship tide the German rockets ased in World wal TI, ascept that they were srcp mockers. "They were big and mefficien. The next dewelopment was the alom-powered rockel.
si" HF l.ATEST as Thes-the mass-conversion ship. We accolerated al one gravity for cour hours and twenty minutes: that brought us ap to more than ninety miles a second. If We held llat drive for a trifle less thma sear, we would apporsch the speed of light. The Naplawer las power to da just that At ideal efficiency, slie would use onlv one percent of her mass as energy and another one percent as reaction mass."

A kid spoke up. "Mister Cluicl Engineer. suppose we patasd the spect of lightr"

Mr. Ortega shook his heud. "Tt can"t lue done."

I know they say a speed laster than light is meaningless, beatuse it involves the square bot of thintts me-Int scienrists change theories the way a make changes his skin. I stuck up my hand.
"Mr. Ortega, what tromed happen it we got uf close to the speed af light-and then stepped ap the drive and held in?"
"Why, il would- No, let's put ir this way $-{ }^{H}$ We broke olf: and grimeal. "Kid. don't ask we. I'ma an engincer witl] latiry cans, not at mathematical physicisi."
"Atl right," he weat ont, "what slocs "E equals MC squared' mearm""

An older boy sajd, "It mears mass car be converted into energy."

"Rigimt" sir. ortega agrech, "The Girst demonstration was che atom bombs. "Then cance urandum powd plants, but until recenty we hado't iny idea ol bow to do tifficiently what Dr. Linstein's equation said, clear back in 1 grob. Dots alyont know how mudt you get when you convert matter indo chergy:

Nobody know. "It's in that one equation," he sait. "One gran gives mine times ten to the twentieth power ergs." He wrote it down: $900,000,(600,000,000,100,000$ ergs.
"Nine handred uhousand million billion ergs. A pound of feathers eqtals more that fifteen billion horsepower-hours. Does that ull atryone why the Mayflower was assembled in space and will mever land?"
"Tou hot." somebody said quickly.
'Ion hol indeed! If we had blasted off from Mojave. Southern California would have lueen reduced to lava.

A space ship is a dull place, once the excitement wears all. There's mothing to do, and no romplen to do it.

Take " $\mathrm{B}^{\prime \prime}$ derk-Lwos thousant emigrants slept therc. It was 15 [eet arross, nost quite gov fect around. "I" deck was larger and "C" smaller. Lach of ws had room for his bunk and about that much over to stand on. To get the lwest use from the galley and mess rooms, the council put " $A$ " deck on Greenwich time. " $B^{\prime \prime}$ derk on Parific Const time. and " "C" deck drew zone minns-eight or Philijuine time. As that we were crowded and time lomg heavy

I used to kill time with Hank Jones, 沓 boy I had known at Srout ramp. He came in one morning while 1 was folding my Scout uniform into my bunk and said. "Why do you keep that?"
'Maybe we'll have Scouting on Garlymecle."
"Not that I ever heard of."
That gave us an iclea. Why not start up Scouting again right nowi'

We called a meeting for filiecn-thirty. Greenwich time, that is. It was seventhirty in the morning for the " $S^{\prime \prime}$ theck boys athd a half hour before midnight for "C" deck. By fifeeen-lorty we had them spilling into corridors, even though we used the biggest mess room. I warmed them up with a couple of tunes on my syuceze box, then Hank called them to order and made a speach. He said that we hat enjoved the benefits of

## ILZUSTRATED BY REYNOLD BROWN

Scouting on Earth ant it seemed a shame rot to continue. Scouting was the traditiont of the explorer and pioneer and there could be no more fithag [3ace for it than on a new flitnel.
He slippeat me the wirti. I got up and propnset a resolution. It read: Jee it resolved $\rightarrow$ we the undersigned, desiring to extelld the Scouting trail out whe stars, do organize as the Boy Scouts of Ganymede in ancomance with the principles of scouting atud, in so. cloing, realifirm the trout law:
Hank said, "Is there a secondi"
There were seconds all over.
Somebody pointed wat than Sinmymede wasm't a star. Jlank told hist ilat was paetic license. The warst oljection wat from a weary runt called Milliraetre Mumb. He said, "Mr. Chairmand, you haven'ı authority to set up a new Scouling jurisdichom. As a nember of Troop Ninety-Six, Gradell, New Jersey, I object.'

Hank asked him what auhority "1roosp Ninety-Six, Gradell. New Jersey, had in space? Somebody velled, "Throw him out!"
Hank hanged rin the table. "fust ignome him. Are you ready to vote?'

It passed witl a yell; Hank was elected organizational chairman, attod appoitzed a lhack of eommittees. Thete were several men prescus. One of then, Dr. Archibalal, our sector aide, spoke up.

Mr. Chairman, I was a Scoutmaster in Nebraska. I volunteer my services.
Hank looked him in the eye. "Thank you, sir. Your application will be considered.
Dr. Archibald looked stavilerl. buil lank
went smoothly on, "We need you older Scouts. Liaison committee will take names of any willing to serve.
II was decided to have a Trrop for each deck and I wats tagged as acting Senior Parrol Leader for "A" deck. At first they were just "A", "B" atad "C." Tromps, but I wanted a name for mine. We settled on the "BadenPrwell Troop," which ticd in willt lie English time rone our deck used.

The time-ane idea took hold; "C" ded picked "Aguinaldo," and "A" deck called themselves the "Junipero Seita Troop," Dad says there is a lot in a name.

We confirmen whatevet permanent ranks and badges a boy had held belore. but working ont new tests and bateges was complicated. We could sel up a Nerit [3arlye in hydroponics and give tests riglat in the ship. Mr. Ortegat set ap another in spaceship engineering and Captain IIarkness did the same for ballistics and astrogation. Sonn we had enough tests to let a boy go up for Eagle Scout, once we had a Contt of Homor. That came last, its Hank kept purting off the final report of the liaison commithee. 1 asked why: he said I would see
I did see, eventually. At last we hat ; meeting of all Troops to instal! Scoutmisters and dedicate the Court of Honor. From then on the adults ran things. Oh, well-it was fun while it lasted.

We were fifty-three days out then and a weck to go; Jupiter was already a tiny. ruddyorange disc. We couldn't see Mars; in was on he far side of the Sun. We didn'i even see any asteroids because Captain Markness had lifted us north of the ecliptic (To page 5u)

It sounded like a rifle going off by my ear, like a steel door being slammed, like a giant tearing yards of cloth.


"Serqun, kirl!" a worknina cried urgemily, "II"s в killer that"я gat away! Sameha!"


## Cat Man

By CHARLES COOMBS
HLUSTRATED BY BOB DOARES

Although Saschat put luis father in the
hospital Jeff wats ready to risk his oun life to save the big tiger from extermination


THIE. MFNACERIE tern was already up, From a short distance cance the sloous of the razorbacks as they quichly but systematically unloaded the gaily-cotored wagons from the railtoad nar cars. Mixed with the shomtimg was the chant of the guying-out mon as, rope by iope, they strewhed the big-top tath in furvied preparation for the aftemoon show. These were but two of the sounds that formed a cacophony fantiliar to Jeff Ralson's ears. The acrid odor of the anlimals, the dusty odor of the circus lot and the bright splishes of color, added to the vibrant thitl that surged thrs.agh him.
"It wats grear to be part of in all.
"Hey, you!" a voice warned behind lum. "Get away trom that tiger:"
Saschas feline cars suapped back tight against her head. Hel greenish-brown cye focused on something behind lefi. The giam Bengal lissed menacingly through her hared fangs. Jefl's hand froze where he had been stroking the great cat's striped neck. IIc suppressed the sudder urge to jom his arm out from between the bars of the tage.
"Easy, girl!" Jefl soothed. "Easy, Suscha!" He realized that. despite the fact that he and the giant Bengal were friends, any sudden movement might well invite at light ning fast slash from the startled tiger's razortipperl claws.
During the larief moment of unertainty on Suscha's part. Jclf pullet lack to salety. He turned to low it the large, spuare-facet man dressed in the Camilair mifom of a cat rrainer.
"Yon-you should know bether than to startle Sascha like thau," Feff actused, strug. gling to contral his rage. "Stie might've taken my arm-'

How many taras [ gol to tell you to keep away Trom them tigers?" Duff Colton gestured with the lead-weighted hathde of his rathide whip. "You wanna get matuled like your old man dide"
'You still shoulda't have cone up like thar." Jeff insisted. "You're supposed to know cats."

Cates. Cansl You call that sasehal a cat? Shes a killer!" Bull Collom shoved past Jelf and swang he leardes whip handle between the bars of the cage. rapping the tiger sharpls in the nose.
"hatk, you stinker:" he yelled. Saschat roared and retreated to the far side of the cage.
Womentarily fedt's anger flated and instinctively he charged, his fist hitting the large man with atl the force of his closepacked itry pounts. They urent down under the lorce of Jeff's charge but Dult Colton bigger and more powertul than the boy, twisted astride feti's boody and legan to pummel him with his fists. D'aintully. Jeff fought back Iroms his posilion on the ground He lanhed oun at Duff Colton's lace above him. But his wrist was cauglat in Dufts stong grasp. Ile saw Dull prepare to hit him again-realized vag.ely that lee was powertess to avoid it and prepared for the impaci.
"Bieah it upl" a voice commanded sharply A boot lashed out and Dutt Colton wein sprawling in the sawclust. The boot belonged to Ross Leland, gemat manage and thall ownce of the Pat \& Leland Circus. "Fine thing!" he accused. "Just great! Riling up the cats like this just before a show. Colton. you go get cleaned up. Beat it! Jeft, don't let mic ath you aromml the cats again.
Jefl sucked in his breath. "But. Mr. Le land. 1-1-'
"Kecp away from the cats!"
It was almost like telling Jelt to stop breathing. lic had been raised with the big cats. As long as he could remember, all of his vacations had been spent under the big top, helping his tather and dreaning of the day when he. Jetl. would be working the cals. Alter graduations he hatd caught up with the Parh \& Leland Gircts, and his father had started an onte to traill him to hande the famous Ratron Ciats.

BUl it mane't heen lemg until Jeff dis. coveral thar Dull Collon had similar ambitions for working the cals. Duff was getring tired of being it womben; tired of all the chores that went with the job of nursemaiding the menageric animals. He seemed sudelenly attracted by the steel iarella and the bright lights that went with it.
"He'll never work the Ralston cats if I can lely, it." Jcft's lanher had contided it lim ome day. "Duff Colton's no cat man,"

But the wery next week near tragedy struck rluing an afternoon performance in De Moines. Jeff's dad was working a mixed act of lions and tigers. The cats were pyramil
ing thenselves nicely when, without wam ing, Sascha suddenly lcaped.
The big top was filled with screams, fant ing women and near panic. Alert attend ants soon drove Saschit off-but not somil enongh to prexent the badly crushed arm and serious lacerations hat still kepr jeff's father hospiadizet.
Thiff Collom, into whose hands the rat act immediacly fell. was all for destroying Sar cha. Nor was there much opposition to his proposal. And Suscha woulat undoubeedly have beero sloer as a killer liad fell wer noted at stangely bloodklog pattern in the great striped beatt's eyen.
" 1 tell you there"s something wrong with Sascha," lee pleated with Dioss Lefland. "Sas ha's no hiller."
"Funny that you'd be wantin' io defems her, Jett. it bein' your own dael who's fighting for his lite in the hospital." the manager lakl said.
"If but was comscions, he wouldi't let you destroy Sascha," Jefl insisted. "Something's wrong, 1 tell wh. You'se got to wait. Anyhow, they're laal's rats."
"Kou'te wrong there, som, The cats have belongel to the dow ever since diat artidernt io your Wid siter. Your dial had to loorrow some money, We look a morgage on the caty. Sure, we still call em the Ralston Cals-good busimess, sec-lan they ain't really your pa's cills any nore son."

TMat mon't alter Jeffs persistence, amb lee finally petailed upon Boss Leland to pospone Saseha's statence at least until the follawing day. And, within Lwenty-fou hours Jeff's observatoms proned talial. By midmomins of the tollowing day. Sascha was more dad than ative with pmenmonia.
That detped accorm lon the cit's sudden ferocity during the previo:s day'x show. It accommed for the beasis hexdshot eyss. And it drew a new sympathy trom the kink. ers and lhe roughnecks atike. Yel., thot one of the performers or the worken had enough sympally to ask ministering to he stricken animal-excepi jetl.

For three dats and nights, ilded stmewhat trom the outside by Doc Carter, ithe circus' aged veterinarian, Jeff made hypodermic injections into the artery that ran to the sip of the teline's tail. Cationsly and soothingly he worked with the giant beasi 10 keep an improvised pheumonia jacket on her. The fever reached ite peak; then broke. Jed talked swahingly and steadily to the Bengal. Whenewa he entered the singe, bisella raised her head watily, seemed to berognize him, and let her head back down on the saw whet.
buring the evening of the tourth day, Saschat managed an uncten purn while Jefl was in the cage. The lues pumsed his own lips and blew through them in a coarse imitation of the cat's trienally sign.
"Yold better ame oin of there now," Dor Carter wamed. "Than gatll lx well conough pretty quick to do the same thing to you that she did to your diast.
During the next lexs wecks. Hece circus had continued westward with a serjes of one amd two-day stands. Dufl Colton way still working the cats, except, of coume, swasla.

DCrF's Ablity as a cal mare was questionalle. He worked them with a dogged ferocity almost equal to that af the Bengals. Lvery time he entered the sted atena his face was bathed in sweat, and lie aneremployed the whip. He showed little aflection lor the ligers, and was seldom seen arrsund the dens beween perfonnances. It secmed strange to Jell that Duff Coltom hat ever wanted the cat act. (To page 6o)

#  <br> The Flying 1037's 

## A schoobroon on wings is provided for these students who

## are being tunght the complicaled trick of three-tumy marigntion

## By JOSEPH STOCKER

IF. YOll had bern standian stmewhere in thic aicinity ol San Fuanemons Golatern Gite blat horaing, youd probably have secon in big tow-engone ainplate swoepiang high aroms the Goldcu foate: Briflye amb out once the vast Haw of the Pitcilic. .Ind if you were up of tom aitsole iftentification, you coblel have taged it lor what it was : Cot canapport.

Nayber tow, yon'd hase spotect Ile big while sar and 1 ed redangle si the this frome glistening on the nurfersite of its wing. And il yon were in a mood lor ide sperabation, youd have supponed that hare san : blamelod ol Ais fore persomel winging oll to ncw assigntuents.

Un any onloce day, what any oher C-54, that might hate been it prenty good quess. Bun mot on this particular taty, with this particntan anipuase.

 orcan's ature woid and back again, And in the semond place, it you combl lane has a glimpe into the cabin of the hig ship, you'd hate wen a strange sight.
limeteal of lour rows of seats contaming some faty slighty bored patsengers vou'd fitwe xen finenty desks - a wow on cach side ol the rabite. It was it lyibur whoolyooms. It catr eleg wat imsallen an idemtial fitast of equipment, dominated by at remad. Lubulat tatat scope bacl at eado resk in toung man satt percring at liute: blohs of amber light llinkering on his ridar seope.

Is the phate droned oner the Goldell Gate. the could "sce" the ereat bridge below willont lemking down thromgh the ponathotes beside thein desks. "They could have "secu" it exen through a layer of San Francisco's ratlynamoing log, just istan hour haterthey could "sec" a treighter tring low beyomal the hotizon, too far disiant lor the naked cye (t) pich up.

The Mosning of 1037
I liey "saw" these things shrough the mod-cro-day misacle of ladar. It was a misacle they were learmmg to fithom as they flew tha navigational practief mimanto nowhere in pataiculatr and back aytin aboard the CAnd when dhey had emmplelely lablomed the miracle weeks or montlis hence dhese young officers would attain the coseted rat ing of "103\%" in the [] S. . Air Forme

To we outsider 1037 is only a muchon combination of nimbers. To the Air Fore however it means a combination of rechnical, highly-refined skills by which one than katus to lunction in the uiple-farent role


I he killy ate tanghat ale Bembandment athool at Mather hif force Base, neal sacramenoo, Calitomia-the only shood of jts kind in the eonmory and, lon all that Encte Sarm knows, in the emble workil. From there
 ont to lactical assignmemen aboard the mighty
 15-20 :1nd its souperl-up sister shij, the li-vo.

Many of these vombg olficers are fommi souts. Typital of Mather's secent graduates, for insunce. was thenty-cingh-quarole farst lidutenam by the hame ol fack litule, who worked his way from (Gub Soma Lo Eath during his career as a menler of Troop il at Mouna Clemens, Mithigan.

## The Bage Has Itw Own Scout 'Proop

 sombing, as a matterw fact, gopes on apite in the very shackow of the luge tratuing outfit. It is Troop $155^{\circ}$, connposed eqnimely of hovs whose tethers are olfiens atod enlised men on the lase. (Dne of flema .semen MLDamiel. Lompen, sont of a commamading
dhent Brig. Gent Carl B. McDaniel.
Mather also plays a part is the fombing programs of Troops latated ald Siscratucmos and other mearby citics. Every yan all least sime differmt [rogss are treated to speciald tonn of the base. There they get a glimpse of the ingonious elerarenic acvices which the Air Force's 1027 s are learning how to master - he the bls of one of the most exacting of 1rates.

It is examing beenuse of the very man ure of today"s aiplanes because the very mature of postwar invialion itself lias mate imperat tive the training of triple-tlareat men.
lonliy's big plathes do their work six ur when milen above the earth, at sperth of gime miles an hour or more, in ditylight or uight ind regardless of the weather. 'The jeh os to guide them over great uratkless elistincos to tiny dots thoustuds of miles atuad. Io pint poin places which can't ceven be setoll fron the air-patocs over whath bhey are flashing at menty the sfated of sound. Gone lomever, ins fla mideconury sweep of aferonitutical scicmese. is olte lixum of sul- (To parge 3i)


## DRYING TABLE FOR FRUITS AND VEGETABLES

See "Featherweighf Chaw," pages 12 and 13


Green Benr Hill waysin

## Male use of the

## lessons of our

## National Jamboree

## for the future success

## of yont Peitrol.

(4) WELLL. WEVE HAD a couple of months now to setile down after the National famboree and to try to get back to normal. Xnv's the time to loonk back and pick up some the les. sons of that grand experience.
There's no doubt about it: The memories of the fanboree will live in the hearts of the Srouts who took part in it for years to come. It will inflocnce their Scour work, their leadership, their whole way of thinking.

The greatest inspiration I ght out of the Jamboree was our being together-forty-seyen thonsand of us, in one tremendons camprubbing shoulders, talking, swapping, making friends with boys from every region.
This whole feeting of being cogether swept through me the strongest. of course. when we were all gathered for those great Jamboree events-opening night. Sunday convocation. Fourih of July, closing night.
It still makes shivers of excitement run up athe down my spine when I think of those oecastions. I was usually way up on top of everything-on a watage point lrom which 1 could see the Sections moving in, like bright rolored shatkes winding their way over the hills as far as you could sec. What a sight, as [ watched the vast expanse of hillside in front of the arena filling up with an almoss endess mass of young bubbling Americans-Scouts anel Scouts, and Scouts!
1 got a catch in my throat that Sunday night when, on a signal, all arena lights went ofl and almost fifty thousand candes sprang into darne-and the sight on World Friendsluip Nigitt of thmusands of right arms raised in the Scoun sign!
Yus, those wete the days! lucky you il you were atrong those present!

## The Patrol IA the Thing?

But when you came righ dowin to it, those present at Valley Forge were onty a small percentage of our membership, If the Jamborece had benefited anly the lew of us. with mothing for the other two and a puarter millions. it woukd have heen but a simal! sucress.
Sis what did we leam at the Jambore that'Il inthuence Scouting for the future? The answer is "Plenty!
The first big thing is this: "The PATROL METHOD works!" Well, some of us have known it all along, and have tooted it from the housetops. But there were those who doubred it. When we plannet the National famboree on a Patrol bisis, a lot of sceptiss said, "It won't work--yon'll $\mid x$ somy!" But it did-and we aren't
Yes, it was grand: The . Vationnt Jnmbereer wets thetly a Innture of Patroks.

The famborec Troops anse from all over the conintry, ant the Patrols hat hat only a lew days to get themselses working together before arriving at Valley Forge. But the minwe they got to the Jamboree, the tents Hew


The National Jamborce was truly a Jamboree of Patrols. Three times a day each Patrol sat down to a family meal-throughout the day. Patrol life was lived to the full.
up. and Patool kitehens and diming shelters and camp gatgers sprang up.

The fellows camped by Patrols, cooked by patrols, ate by Patrols, lived by Patrols. It worked! And it worked for two reasmens:

The Patrol was the only way io do) I!! There was ans other way possibie at the |am-boree-so it simply lad to work.

Ther Patrol was organized in sworth Every Patrol received a sleet on arrival suggesting a routine for getting the work done, with a job for every Scout. The patrols worked out the rotation of dulies-ranging from Cooks. Fireman, Cleaner-Uppers, io Waterman-and all the fellows lived up to their responsibilities.
What will work at a great famboree will work even leetter in a Council cann, still better in the Troops carip-and best of all in your Patrol's own canp!
©o ler's take this for /AMBOREE LESSON ONE: A well organized Patol makes sronting go.
You've probathly hearel that all latmol noking at the Jamboree was done on charcoal briquets. It was a cinch-as long as the Fireman "seen his doody and doodit." It's a matter of starting the charcoal lire, when giting it as mathe time to come ip as you would ondinarily spend in cutuing woot

## Somethiag New Has Bear Adtled

Predictions of things to come, by fimerald. Siripe Willie: "I prediet that phitrol moking on charcon! briquets zuill suerep the rolmtry!" All you need for three meals for :a Patrol overnight is as many bricuets as will go into a cooking pot, or, by weight, as much as aln axe would weigh.

Now, don't gel me wromg: I don't want to see the axe, or the ability to use an axe properly, yo ont the window. Let's stick to wood lites when that's the thing to do-lyu let's use charcoal briquers when lian's the smarter stunt.

Sh, JAMBOREE LESSON TWO: Charrent buquets for remp rookery is here to shy. Ant il you want to know more about it, drop me al line and ask for the pampheter
"Patrol Cixaking on Charcoal Rriquets."
We've been giving you a lon of suggestions on Patrol equipment in BOIS LIF'E over the ycars-on this page, in double-page photo features, athe in lyark-ol-the-magazine short teatures. We've tried to give you the bess, based on our owis experiences-but you never tan tell: What stempts good to me may stem prink to you.
so. Eellows, one of the greatest thills that 1 got at the Jamboree wis to stee a great number ol BOYS' I.IFE features come to vigorou. life in thousands of Patrols.

## Keep Your l'atrol Humming

lake the tents, ior instance: As you looked ower the vast cxpanses of the fanboree Iron Fort Washington, what dmonsated the scene? The Explorer Tent that we've leawared in bOYs LIFE-hundreds al homemade ones sewn from our pattern, and himdreds more of the ready-made Supply-Service version. That tent is pitturespute of gemod size, casy to make-truly the tent for Patrol camping.
The Patrol food box that we've been advocating was a leature of every Patrol camp! It will be with us for lony-term Patrol canping lar into the future. The majority of $P$ Patrol boxes were of the straight Wood-BadyeBOYS'LIFE tesign-buI others were improvertents, even to the foint of being luroaght in on sulky whecls, trek-cart lishion.
Charcoal burners, refector ovens, tent decorations, monkey brilkges. signal towers, and many other big things-plus smaller things like Indian-costumes, Patrol tlags, totems. whittled gadgets, nerkerchief slides, personal equipment: right out of the pages of your own magazine!
Sos here's JAMBOREE I ESSON THREE: Use the program features and hrmdicvait idres tue give you in BOY'S LIFE, to muke youm Patiol hum. The Jamborec showed ns that the stult works!
The National Jamboree tauglo us a good many other lessons-but r'll be satisfeet if you make use of the three above for the benefit of your Patrol.

## The Flying 1037's

ficient tinac lor thete tmen tor work scearately to locate a place on the landsenpe bellow. Nuw ewerything must be danic loy one mall and done tast before the place in tuestion lats tradel into ble distance.

Thus the chrce-iname 105\%-it iechmacian trained to a line porint and proudly weating his spectal silser wings with ant insignia ju ble middle repicting indar Jashes aluteheal in the talrons of all ceagle. 'He"s the mom int prastan inclinidearl wn a mission." rays Gencrel Mobaniel, atob not at single pilot in the hir lorce has come hor watd wet ta challenge Lhat. For 1 ell the pilots itre awed

He Iemrue Several Mehhodg plon the crarse of his plane liy on one al several methods. influding dead reekning gadio and radan, divy or minht, anter abery embervable conditian. He motso be able te lenate points an the ground instantly and as jadar man. he nects to operad: and calibrate difteren lypes ol cymipment sud hreadelas abse recerpe from air or gromat on all types of radio equijmem.
Bad he must evor manter the intericaties al weather trowerang salicienty t" problicy weather chaditions our as limpal srale, tor al light int wisure the werlel
It erssts Lucle Sama mere than smo
 centrated comene lating ciyhe or mine months an Nather-a course comparable tor the wears of college Abol millions on dollars worth al orpipment-
 hase in the conlotro-hats been as semblead there to textil hime acentacy at und procestisus.
Kaclar is, al conmse, the beant al it all. I las efectronic marvel. which rume atong late in the war, works on the principle of electrical impulses heruating against a given objotath
 ohatanized now only the cednitues of
 hut of balind latictings and arowear res. ato bel fact. is mity simon provicle a protende shied lor alumst the entime Norll American rontiment for plans are muder way to construct a fadar bar rior cucimeding the U.S. and Canada.
Once he has learred to master radar. the dir Joree's throc-ith-one specialist can do almost anything but shave with it. He am mavigate hroush shop arnd onerenst. Ife can spont the thickest and
 In choose the salest comere Ine his airs. plante. Fte an detect another aincralt ill the immetiate vicintity of his owv. And when his work is brishod and the frilan lanels it necessary to sit cham on "sweket-in" aipori. radar brisurs dhe:th in.
"It's ant atmoing thing tor us, ever when we deal with in every dab," say
 rlitertin at rainitug at Mathest, probal. Iny knows as much aboum madar as any math itt the dir Force.

The APQ 23 Wil] Think for Hinn piace of expipment at wather is that ian whith tadar has leen wedded lo a medianical eomputer. The result is a mansive machine which goes by tho presaic desgration of "APQ 23." "J his wander-furk itg mechanism solves the DUS's problem electranically tor bim. Haterally taking him tos his slestiatation, and bring ing hing back.

Bun the mataline by mo means sup platate the mand it is still up to him to preset ectain data intu hio wom
 wher lacters.
The compurer dy itself custs bis. (hato, comtains approximatedy atot cutbes and weighs 1 . ong pounds. It takes the studem offere eighteen hours ol chasswong instres ion alone just to laman
 the romputar fine a mission.
Goupled with ratar into the whobe
 th lich the Air Forre call, 4 P(e)
allords inn acomacy to within almout gide leen Lrom alditudes as hient als 85 , man feet. For purely mawigational par poses, it is accurate to within litation ol mile
The pracision of this mementich
 monshang when one realizes that at sumh altitude winds up to 1 3al mile and homar mast be ematended with lha the $+\sqrt{2} 23$ takes 1hese cydoric blists ill its stridé And. as Wather's men will tell you. even betap rathas egrap-
 to kecp pate wall the alematads of iot and racken flight it ever mounting speteds and ahitudes.

How la Become a Scopelıeat 4. mpecial wermacular and ceen a sur parstition or atw have quown ut atmond the 4 PQ 23 . A subtent who spenth hours pecring ints his batior sope comes to be known as a "soble Lnead." Jle atso atevelops "Eddie Cantor eyes, callaed by the fact that the motating radirs anteman semdis arouh pick of yellows light constentily swecpinf arourd the scteca of fis scope

If cute early dats oh atcal where wa
 eycs." Radiry men latared "phosphorizect eycs, liecatise ot the elcetront cmisuion from the ealuster ray tulse inside the ratar scope. Fight surgeons actuallw ran tcstin and conclucted that llere tas nu datere
Navigalionally the du 295 is limited in its rantioe to 3 , miles. To find his way owe apeater distallest especially
 alled IORAN (Inmg Rimye Navigation).
I.ORAN, which enaldes hine to plet his crousse withour lemking af lif cemitpass or breaking rario silence, morks for this alimmer
I wo gromed stations located al shott distance from each ollow fire bitdio impulses into the air-the "minacer" stafion first and then the "flave" stajom at monear later. Thene impulsex mavel Lad freater distances than the convenfonal madio botens which tor nany years have holpod guicle airline pilots atcoss the mations.
The nawizator thromgh lis nwan LOK.AN set. measme the time didlerential betwean recejpt al the two signals, in mestrument which often is as Fine as $1 / 1$.ompumben a secomd. Wiats that he ran then fix his pecisifoge oll his LOR:N chart.
Still aturother applination of rindin in the 1087 : Bag al clextonnic wicks is at flevice which gioes wader the Iechonical name of "字保 Ratar Vtimeler." This itheroment is desigued to show him tris abselutely lrue altitude at all bimes. sultich is at very hatedy bit of inlormabion to thave bin a missiom.
lo is buith aroumd at sereen similar tu that al a radar soope. Ehut instead ul seeng blobs of amber ligftit on the screst, he sees a wavy green circle of liyhn. The wirs le rembins still as he

Sid Abel, star center of the Detroit Red Wings professional hockey team, says: "Good athletes must be mentally alert and physically fit. I like Scouting because it helps build sturdy bodies and alert minds."

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## *bobby driscoll

now tarring in Walt Disney', "Transura Isiand" wears his Lake Placid Ploid Jackel

## Saudess

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11as 日RDAOWAY, NEW TORE CITY


Mies over smonth watcr. But ewer rough land it undulates (o) reflect the constanty chatuging distances fram the plane to the nearest point of earth. Ilere arain it's the basic radar principle af an electonit intpudse bouncing atraght down to the ground and back.

## Conked By a " ${ }^{6}$ Bug"

The Mather stuctent dam madn of has work on "nark-1pm." These are cardh-hound training aids, cleverly contrised. which simulate attal prolylema he'li confront in the air lout bave Incke San the expense of taking him there in an airplane.
'There is, for instance, the Ratar stupermonic Trainev twill whith he can Tracel anywhere without men leaving the gromull. And there's the Gi? Train. rr-a small culnile comtainting various appes of insitumenes by which he can be called upan to solve almonst any conceivable naxigational problem.
'I hey make it so siff lom us." said ane 10.7 -to-he with a slight shutlder, "that when we get inter the air it sems casy."
Bun ewen earth-bount trainitis has its hazards for the abpiring dasi. On
 piece of equipment kumwn as a "hug," which records on a sheel of grapah paiper how well the student executes any given mistion. One yourg nftoer managed to get so fall :wher in his ralculations that the "bon" van riyht oll the roof and. as he stepped out of his cubicle. conked him on the head!
The sturlent's chance on pur his sew Gills to work comes when he reaches the actual stage of Higlo Irainime. It'; then thate cmbatrasing thitare really begin on happen to him.
They delight in kelling the homy at Mather al the student who wis Hyimer home at niyht from at crose coniltity mission ar Labomek, 'Texas. in aC. 54. Cilan:ing around for cherk paints on the terrain helow, he sponted what looked trourn his window like a lake. Five minute, later he looked agaill and
it was still there. Another five minutes, dito. Ten more minutes, likewisc.
"Gonh," he thraght. "we must be going awtally show or that lake js a whopper.
When the persevering lake was still biere ater twenty-five manden the stadent called ath instructor. The in surtator lowken nut and quicky solved the mystery. It watin't a lake at all. he waid. It wats a spot of light gased by the moon reflecting on the wing!

The Lake Thal Wasn't There 1 t'y teil of atholber stutent who lou' at dow and sinw what he thought wa* litena Vista lake, near BakersVitk Calliornia, Only there mas bomet! ig "tratnge aboul it. Once oll un hir Fe cre"s new "Ilying wings" seemed ta be restold right on the water. Then the student realioed what had happened. If uasiot Buena Vista lake that an saw fut Muror Dry Lake, where the dir Force revs its new experimental biather. Ilis compass had gont out and he wels Itot miles nff his course.

Such harmates boemers ins these. with the rugrging that inevitably follows, are pertsetps : lusury in which the lall 7 cant indulue himsel! while lees still in achool. Hut the latury is one which he knows le kan ill attiord after he has fini-heal fons then the will have taken up his dats as the eyes and ears al a harge ship spliting the stratumbere at near-sonis apceds. It may be a sixengine H- 86 , a forr-jat $\mathbf{B}-45$ or tome new and latnatitic mammoth of the sky which in mow only on the drafting hoarda-

Then, inded. will the dips be drown lim America's aterial miple threat man ashe crourhes there in his tialy ratam ampartment. Strons within him will he die realization that only through livetraming will and alertness tall him ship get from where it was to where it wathts th wo atud get home aysial.

This: Ienn

## Undersea Hunters

## (f ontrivacd |rom paga o)

would do. You are shat other fish in all trath. You are beth subicct to the: couditions of the water! I he contest is fairly even, cach with his wwo weapons, each swimming in the waty Yours is the disatwantage of a limited time in the field at battle.

Your hexGe mee rady m hurs. 11. komer tham lort comat You know at minate is the best you've ever done and it towk sewsurface is way up there above brightly scudded with dancing. gem-like ripples. Now you need those: "durketh" ginme that ever. Your eats are rimghes shamp pain beats agatinst the solmess of the eardranm. Ip. up you drise. Irom Ite bount they're wathing They sece the sultace busting wisle open, yonar red anapper on the and of the specir, whirling around. You're pleased al being up. and having made a good shot, and youre trying not to ramember haw se:red wou were at first.

There's the medicine kit, too. Mostly in'll be the pernxide that will be used lor couts that you get when yourice not carcful around the caral. The coral is sharp, It cuts your latads, your knees and four feet Not deep cuts, bat a series of smatl clean scratelnes that you fon't notice at firse until they bleed a little. The salt water keeps them from IJlecding until you've been ont of it for at while; then you poum on the: pernxide. It's good in care for the litule cuts right awsiry and then they
wont hother von any more. In a Iew days yond learn in tratit the coral with respect and woll be enugher thent tom? so it's montly at first that you'll med the first aid.
Getting of know Turtle is a slow process Sot that he's the kind who keep to himedif. liut ewen when he's with vou, vou have a Fecling that he's
 blac, hac blat that ven we in the waters of the Caribberat and the liahamal Bathk. He never uses a hand. ans you do in the hot plate of the stur. to shicled his eves. It inn't necessary. His eyes are set dcep in their oockets. Fram long exposure to the elements. his luros seems to have palled itsell down losw ower the cyes, Rubly hairs daleushed white Erome the combituation of salt alut sumb fintial ofl the brow ko that he hiss a built-in sumshade to furo tert and derpen his gaze, possibly from lang experiefirs at peering into the depths of the coral.

Hwas boks on the ixlant of Tat rawal in lhe Gialuert latande of South Pacific. His father a S'coteln sea-captain, loved the place and lorouglat his wite and five children there will bimito live. ']urtle gon lis name becaluse lrom the stath he loped the water and was natural in it. It's his right mane, we nower knew him by ally other, Turtic was picked up by the Navy during the war. Or it might be more accurate to say Turtle picked up the Nasy. With a group of his Icllow

1':randans Au was living of atm alodl


 it ling ott ilse Jatgoon, J witle shomed Ince widoth how to lish the coral reelis


 Wextr, since the war, I urale bas kept on liwing in the Ballanas beranse he
 Mifusi or Havana of New York. Sorme d.
 the Fahanian recis.
Ray amd Guy ale like yourbelt: not exatly wreablaths. woont stiamers ath healthy, bum willi it lat to kearn ahout andermates lountiang And like yoursult. Hety wote caphivated the fast

 cleatly Lloramy whe ghas wintlow al he farc mask. II was the forst close-up ol' a lutag fiatle fish that coltoght your l:ancy. You were surprised when he didn't swim away from tou but came tiosht up clrase. And then you lele like you wote just :nחother kind of fish to
 Jsing its their world. The liatle moses nlas inten llet ctevices of the coral lookintran sanall hits of linot. Il you're perfacily sid[. Iheq']l swin all at'oume yru. Cutiosily. Tlaf ligerer ancs. arouper. real-singaper, ankel fisl and mut-
 aroumbl lor lorig, they'll wadation drift

 Hoit atentions. Blake atoikk palss at


outcy caldes at the ref ate the bar
 and Inth where the teet drops off into
 Waxtacuta is cowardly. He barely comes into the bation patch of coral where veretation and ereviecs mity tride ad enctar. Nob unters there is anomber
lish. wotmed and Itelpless, Hownder ing around lare. Then lu:'Il watue like lightaing an an atc, streaking ly widn Hasll amd grme leblare wan calt tur intn him.
"Hey, there, Ouy." Turle shours "don't lipp your leet so nuch oft Lhe suface or Mr, Shark will cribete He always culls a shark "Mister." whether
 siny. Probalbly for respoce. He tells us over and over low to lochave $\begin{aligned} \text { and } \\ \text { at }\end{aligned}$ Ar. Slark is aroumt
Bring your speareal lishaght ous al
 ble surface. Make as litule commonion as possible tor the surface where the sparkle of shashing water in the smm dight wild attract Mr. Shark. Turale has speared thany warks.

Now we sitcia the whole day ght
 maw for more thata we need. We eare lully selece the now we wath tor fisuat Last night we laal abu hall al reed shappers. On the hearb at fut campsite. We monked the hibh showly arev
hot coals. We brought up ronds form the shatlow water whote the slomp lay at inchor. The large twisted shell of the emonh is easy to find: illowy where llace is a patch ne prass-like seaweed uley pustile. feeding aft the lowtoma The cotuch is like a luge clan. Yan break of the spirat end ot the slacll and it comes richt out. And then girat
clean it off in salt water, scramine atwy everything but the firns white meat. Then you syubere limes tid the juice
onvers it all wor and you thop up litte rod peppers and celery and fon'we got conals salad that you tat right etway will rour fish
I'urtle was sitting trp on the bowspit. Ile came alt where Roy sat luationg the maidnsheet in one hand, tilles in the obler. The light Ireeze give un litte luadway. "Of Shilling Caty is aplace," Turile suicl. "If we bland into the ermand where the bue rent will take is lacre.
He had that look abost him. The Oum that tells wou wnuthing mew is
alsout in happen. You wouldrat say that Fhatle weint nut looking for sharks. but if he dich lfants the way he "suld honk ith his aves.
There's it wreak in here where then
"says "Iurtle.
Thince what are "urthe? we ask
"Ootoms." innwers "Turte.
 Lan feel unther the surliace. Turtle sants man it loremliner ovet. looking Inwn though Fis mank. We heriner the linghy over. leiting emougl line but on the amflem tur hame it armumel the fiete of wred kage Hardly rippling ote nurfice: linrile klides imo the bluc atolot. "there are huge shapes of that "hincry, deek winehes possibly, juthing ant hote and there laut so coveres with harnacles :nd growth they are nome like the anage and yollow coral urousid them. The elecks of the old ship are split opon, lung timbers ponking fut into the bright bilue water rasily sern amainst the white sandy bot toma. We wee Turale lhenogh life hotrom of the glass-lucket pokint

 strughiaty upsard dor release to tho
air fromb whence they were brought
 ates with no troublc. And then he teate his way bork ap wate trop. "You, Rny, come with me:" flte stivy in the water gripping the side of the dingly with one band the watar in the other Jhen when has herathing stcady aggiln lue sings, "It will talke tas laoth tu bring him up. You lollow me down to where he is atal we'll looth

## TYartite mbx'r like lue octoples being

 around the ofd wrok. It seemed it be the one thing he was aftratid of if he had fear ol anything in the watter. Thatls why le cartied in sheal knife on his helt when lue swam. Hes aften saift that an motopus conlet wrap around your arm ar leg and hold von down until wout drawnerl. The rest of whe ncopus wats amehored to something solis! and there ymu were and would

They brought uf atac extopus int palect of the twits apears. He was elewen ineloes acrose wh laik ol his lmoty. Not a big one, but is treck tho spears and twn men os pry him oll the wowilen timber. Z'urde said there was a way on cook an wetopess sis it tasted grond, but 「or some reabon wee nowr cried it. leethaps what happened nex: drove : way all antions of eating our prey. Here is the wot it whe ging up llae octopus from the nld weck. Wr. Shink calle altong to see what was li:pperting. All the lime Tirtic had been wateling for hime lie sat the grey shape as at manen-


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This adverlisement Westekn Carverther Co AND WINGEEGTEM RRPRATYNG AuME Co Divimone of Olin 1 fuluptrice
striking. Leaving the octopus with Roy lic quickly drew out his speat loy pull ing it on through; set the slings ower the end: took a decp gulp ol air ant alunged rlownward.

Listle of whas happened could we see through the bucket; only dashes of whus here and there. The water swirled. The first minute setmed mors like five: she scound dragget on $\mathrm{IW}_{\mathrm{i}}$ all began tor think atong the same lines: adjusting onr face makks , wat spears automatically

T
Then the sukiack burst wide orpoll. durtle came nap yuickly the the hom asking for another spear. Te plansed again. Ater that he took a large huolk down with himatathed by lite w the dingliy. And we know then he had hated Mr. Shark for gnod.
lour supper that night we lixet mess of Symaish lobster. 'Ihey're callet crayfish sometitucs. Thuy fork every bit like a lobster shomld. but they have ton get along without claws, a fitet which maken them easily caight. On the was in lrom the wreck. we had snntted. good place en ery for them. We den lugether far therm, something never done when spearing. To pet the spanish Iolyuter. we ubed mur hands for the easy omes and at then-promarel lonm
hatulled fork called a "grains" for those hard to reach where they lay deep under the coral heads. Their long fecters give them away. You sec the feelers first: they proprode out from the head aloout twer fect, The crizfish Bucks away yuickly when touchud. You must grabi it around the middle and Juld tight.
Willie. a native Bahamian. had sailed over from the town in his wall sloop. Whe san it athelored near the bead when we came in. Whilie wat at triend al Tarele's. Dte hal started a lise on the beach, The curling sonoke looked mond. Willices white teech Itashed a bior smale in lis blate face when be satw the folseter. II see to work aplit ting opern the tails, throwing away the rest. If tow sut the white meat of the lobser and separated it into chips, as at cones apart in its own way. Jhan he fried them in butcre itm the pen ofe the lire: We atte the lobster with fresh lime fuice oyer it. And we talked. The fre watrond us. The monn eatme up so we contrl see the shape of the two Imats riding quietly on the water. And Turbe wats singing a quiet song al Polvinesia That was monve like it



## Arizona Scout Has

 "Jamboree" in N. Y. HospitalThis |amboree Scout, Byron La from Douglas, Arizona, didn't quit, get tol Valley lorge. What finalls happened was that part oll the fam-iguret-in spirit. at least-wats brought to himis.
How sot Well. Bytoth, wher was visiting New York City with his Troop on its way to the Jambores. somehow got in all arguncme wish at truck. The truck won and 13yron got all tangled up in a bed in lowers Aanhaltan's Belleque Tlospital.
Soouts and Scoul leaters whas heard of Hyron's accifent sropped in daliy for visits. Then police and firemen who ware on duty at the hospital made a habit of dropping around. The nurses tell us that Byron got more atention than the Bronx Zoo's prizg aymadillo.

When Scout Lay's friends [ount out that Friday, July 21, was his birıfiday
horow an paty. The candle puffing cerenony wath lollowed by the g. In ing down of da cteam, candy and cake. Ab the patients in Byrmat wad capitalized ont his accirlethe lacelluse they shared in the celebration, Amony the party gifts lyym recived are a camera, slicks, sport hirls, at jigsous puzzle and fountan pens- The memorable pars of the party cane when a Brooklyn Scout master. Williant M. Hammond, pre sented Bron with the Bmaze Palun for hias Eagle Badge. In addatim ta all this, BOYS' ILIEE photographer Bob jones gave Byron an alhutn of filty professional Jamboree photo. graphs.

Aldumgh Byron didn't get un take part in the swapping and touring at Valley lorge, lic did get part of the lanboree brought to himand that's more than most of us ean buast of.

# Scamming 

 The Sporta-Senewith STANLEY PASHKO

## Donhle Twist Plus A Flip

TTHE MOST DIFFICliLT dive listed in the intercollegiate diving toumeys, is described as "the running double twisting forward one aud one half somersault." Properly enough, the man who invented this double twister in 1942 is the best in the country when it comes to performing it. This proficiency gave him a big jump on his competitors when he was diving for Ohio State Thiversity and wors him the N.C.A.A. title of Swimmer of the Year.
Miller Auderson is the proud innovater. and the most amazing thing about his athievement is that he came back to competibion after at war ingury which alnosi cost him his leg. When his $P \cdot 47$ was hit he bailed ont and broke his leg in the landing. His leg betame so infected that tmerican dontors seriously considered ampulation when Andersm, was finally rescined. They finally saved it with a silver plate, Anderson built ip his muscles by conscientionts exercising, thanged his diving style to compensate for the weakness, and remerned to heip his school wint the N.C.A.A. Swimming Meet in his Junior year.

## Smart Like A Foxx

Jimmy Foxx, the Hall of Fame slugger, was best known as a lirst baseman with the Clampionslip Athletic teams of a decade or so ago. One season, Hhough, Connie Mark needed a catcher and Foxx agred to give the job a try. He was no Mickey Cochrane. but Jimnty proved he conld think as well is slug the ball.
In one game, with two mut and two strikes on the batter, the rumer on third atcempted to steal home as the ball was delivered. It was a perfect strike which Jimmy caught and quickly tagged out the slidinth ramer belore he crossed the plate.
Will Foxx and the umpire knowing who had made the last out. He Athletics trok their turn at bat, then went out into fielding positions again. The batter who was at the plate in the last inning again came to bat. The umpire properly kept guiet as the batter connected for a triple. To his surprise and chagtin, upon the request of Foxx, he was immediately thumbed out. With two arikes on the later, and a third thrown over betore the base rummer was tagget out, the teanm naturally dought the runner had made the final out in the preceding imning. -Thanks \&o Dran Tarbet, Arkerly. Texas.

## Scholastic 'Track Champions

Jack Latham writes that his high school in Fort Collins, Colorath, has won permanemt possession of the National Interscholastif: Track Trophy. The school's track ctam won the Nationat Meet four years ago, faited the following year, then came back to win the next two years in succession. The record is particularly impressive since Fort Collins Figh School has only 6oo students.


Yogi Burra defemin hane plate, this time without the hall!

## Basehall Recorde in Reverec

Andrew leonard, of the Bonton Braves, committed nine errors in a single game.
Carl Wcielman got to hat six times, struck out every time in a game on foly $25,1018$.

Wiltiam Gray, pitctang for the Washing ton Serators iti rgoy, wilked ejght men in a single inning.

Leon "Goose" Gosslin, a really line hitter grounded into cour double plavs in four consecutive times at hat on April 28 , 1981

Leonard Mecrilo made four errors in ane inning for the Chitago Cubs.

This list of baseboll howers was submitted by John Gonderomgh of Ridgennond. N. J.

## Diamond Dirt

Nobody can say that sixteen-ycar-oke Frank Paterson didn't put everything behind that throw from left field to home plate during a Chathan High Sthool praclice game in Massachuselts. He thew so lard he fractured his arm.

It temok a litule time, but Momal township of Sheilby connty and Franklin township played of seven intings of bakelasll in Indiana this smimmer.

Franklin won $4^{2}$ to 4 , geting $2_{5}^{5}$ hits off three Moral township pitchers. Moral's porous defense committed 17 errors.

In 19.f. Joc Nuxall pitchert in a mirjor league game for the Cincinnati Reds at the age of fifteen. This leats Mel On's lamons beginning witf the Giamss at the tender age of sixtect.

Until 1882, umpires often took testimony Irom players and spectators before ruling on a disputed play.

## The Berra Legend

Yogi Berra, the Yankee catcher, is fast becoming a legend in baseball. His antics maty rival those of such celclorated serewballs at Gnofy Grmez, Dizzy Dean, Rule Watdell, and Casey Stengel. Two new ows have come to our attention.

It seems that the Yankee brain thist was disturbed about Yogi's imability to lev any kind of pitch go by unmolested. The: talled him away from the plate in one game. relling lim not to go for bad pitches. "When you get up there," they admonished. "thinh-think-think."
Yogi went up, took three called strikes and returned to the bench.
"How can anybody think and hin the hatl at the same time?" he complained.

The second anecdote is told by a teanmate. It seems that Yogi was arrested for speeding and the teammate was kithling him about it.
"How fast were you going?" asked the teammate.
"I was going so last I covered sen miles in two hours," growled Yogi.
'That's impossible! You couldn': do 200 miles in two hours.
"I sure did," Berra insisted. "I was driving sixty miles an lour all the time.

## Bameball For Roys

The Brooklyn Dodgers have their lamed baseball lactory in Florida, the Cianls operate a school near Poughleepsie, but the Chicago Culss take the cake. They conducted baseball school for boys eight (o) twelse years old at Springficte. Missouri.

The trend toward youth is also taken up by the directors of the American Assoriation who expect to form a "Little (To page 44)

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 saddle, brilliant lighting. Choice of 4 color finnshes. Eisy oa your pocketbook, with low down-payment, 90 miles and more per gallon, practically no upkcep, no parking problems. See your dealer today for a FREE ride!


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circulars throughout the city, state and country, and abroad. atescribing in detail the stolem fortume is shatuck gens. There were ringh, carrings, pend. ants, necklaces, and bratelets of rubies, pearls, dianoonds, and emeralds-truly a king's catisum.

A
Answis came from the Paris pro lite. They did not lave any idea is o the identities al four oll the five men. But they were prelty certain that the leader had been one Galoietle Mifurey-an tpache criminal who hat a tong recerd at an evil-docr amb who was, at the moment, a Engitive from Trench fustice. A phatograph of Gabritlle Mourey was en moute, latis advised.
'Iommy Adans sat in police hoadquarters thumbing through it stack of rogues' gallery pictures. In orther not to intlareme fis selection. the police had mixed Gabrielle Mourey's picture in with a dazen "maggs" ol wher crimiltals. When 'Tommy came to Mourey's picture, he stopped, opemed his cyes a little wifer, lonked up at the detectives, and said. "Whis is the man from the restarama." 'the fiften-yearold lowy had definitely put the perlice oll the right trail.
When Albert Shatturk and his wife. who hital bouth had such a close call Irom death, atwied the rogues' gallery photos of Gabriclle Aourey, they recognized the crininal as a man who. under anouler name, had once worked in their householal as in Putler. " 1 conald never forget that facc," sald the funancier-philantloropist. "There wats something evil in it."
Gabrielle Mourey's tace was forth with incorporated in a prolice lice that was distributed havoghou the Einited States, Panama, Nexico, Central and South Americh, und in England and the Contincm. The most distinguish ing mark on his body, also described, wab a tatum "wis bight Imprearm.

TMar police were nol thronget with Tomuny yet. They kept gucstion itug him as on whether he had over heard any bits of conversation letween Cabriclle Mourey and his companions that crulld be of any valuc in the manhumt. Tombay whid nod recall any such convetsation. "Kecp thitiking back, 'lumary." urged a detective "Of. tuntimes a person hears something and then lorgets it unless he really strains to recall it.
The detective was right. Tommy recalled that one of Mourey's henchmen - be one with the sar on lis facehad once saitl that he had friends in Plandiale, New Jersey. There was no such Lown as Plathadale in New Iensey. but there was at lataficla, Detectives weat to the New Jetwis conmmanily and began to warch the patrons of ome of the researants there.
Early in cheir search. the detectives spotyed in seatr-atect thath wha answered the rlescripsion of ofte of the ghintect. He was i regrelar [jatrom it al little Frend restanamet. But the detective hat to be mare. One might they took Tominy to Plainfield. Forsevaral hours Tammy stond on " street comer with a detcetive. Tonstrd midorght a man cabine out ot the restaurant.
"Here he is, 'lommy," whispered the shouch. "Get a grod lowk at his tace when he passes under the street lamp there aul poke me twice if that"s him."
Tomny held his breath as the man ceme eloser. 't hen, when he passed under the strect lamp, Inmmy got a good look at his lace Fo poked the deteclook at hice. The delective brought out
tive twich
been killed in a yuarrel with some other criminals over the price for a hidforut they were selling him. Bagnoli, the scar-faced arse, and Dinset mere quickly convicted and sent to Sing Sime Prisoti for sixty years. Whith two of the banclit quincet in the big bouse and one dead. that left two at largeGabrie:lee Abourey, the leater, and his clase fricuda Jat Comilleri.

Qeveral monious hat passed since 3 the outrageous crime lad beer commettel in the: house in Washmer. ton Squane North. Albern Shaturk, the viclim. made a pubjic amouncement, He would spenal the remaining years al his lije and all his mations if need le to sec that low case was complectly salven, meationg the apprebursion, ont viction and ingutisonnent of the lwat remaining tagitises, "I will persomally wack these tinell domen the the ends of the eatht il neccssaty," said \$hatturk. The police admired the rettred finam cicr's courage: Ine wats beventy -ane years old and in frail lieath.
the first clue caume from Surn Fancisct. I here a jowelet bought twat ruby rimg from a dark, storky stranger, later os discover that they wert part of the Shaturk boes. The stranger hasi lived at a small hotel near the fewelry shop. but when the jetweler motified the police the man hat checked out of the hotel.
a haturkerchice and blew his mose-a signial to mo other detectives rearby to allunc io oul be quarty. The mans with the star wats daken witimut in strag Tommy Adams.
The prisumer's thatut wils Motise llagnali. He reatlity indmitact ling indentily and bis patiocipation in the Shattuck crime: He corroborated the polide prenise that Gabricle Mourey tiad lacers the leader at the gatbig. Mourey hated taktes hatl of the lant-ame himbired thenamit dollars worth of goins-als his shate amd dividet the rest almong his conlederates.

Whe, in boles, wathed lo know al ticipainuts irs the ctime, andrl whote were thry-and Mourcy Aside Irom Monery and Benenoli, the athers hall beern Eugene Diasel, Picrre Ladonte and Paul Canillsi - lardmed Europan ctimmals all Butgoli had not the slight iffea as tu the whereabouls al Mourey dit lealet and Camilteri. a close frimal ol Woureys, but he know where Diaset and langnte were. He led the pultere right in Diasen irl a hide. ous in New York. The paliate reathed Latuntes hiteout ton date; he had


Shatesk toulk the firse train for Sitn Franciseo upon reveipt of che information. He wene th the hotel where we suspect hat stayed. He yuestioned bell boys aml other employes about the man. Shattuck emerged with one clue: the suspect had been looking at rravel tolders on Mexico when a waiter had gone to his room with breakfast one morning just before bis detarture. shatack knew the suspect hatl heen Mosurcy. He had had a smath batd spot, about the site of a fuarter, mo the back os his head-a clue first given to the pulice by observams Iommy Adams.

$5^{H}$hattleck now went to Mexico. The Federal Police there had just run driwn a due in a small town twenty perted to look like the Lupitive Mourey fad visited the town athe given someone a handyone piere of jewelty an a presens. The jewelry turned out tos be pare ol the Shatack loot. But by the time the police reached the cown, the quarty hid disappeared.
Shattuck ravelled Mhroughour Mexict , smetmes guisy into the mountains alone arn horseblack in search of this puatry. The aged man underwent trymg rigors of warious kinds but his spirit carried him through.

The hunter was in Mexico when the quarry turned up in P'anama. There a man with very dark skin went into a physician's office ancl asked that a tattori matsk be removed frims his righe forcarm. The tatom, way the one menttinned on the peslice hier describing Mnurcy, bus the physician liad not seen the flier and didn't know this man was wanted by the police. The doctor tuld the patient that the removal of the tattou would be very painful and suggested an anaesthetic. The patient was aysinst an anawshetic. He masised that the remova! be done without one. He condd. he saill, stant the pain.

DUulisg tue uperation. the man fainted from the pain. By way of reviving him. the factor loosened his collar and shirt. When he did so, he moticed that his patients chest and neck were several shades whiter chan his $[$ ace. Here, then, was a man who had darkened lris skin as disguise. Why: The doctor went into another roon and reported the suspicious patient to the pulice. When he returned to his operating rowns. the man had revived and disappeared. The police slowed the dratar a flier of Mourey: the French criminal had beon the patient.
Stiatituck weme wh lanama. There he orgotnized expeditions into the jungles of the Ischunus, seeking the fugitive's hideout. While shattuck was on one such expedition, Mourey turned up in Kin de faniers. There the stury was similar to that of San Fruncisco: the man had stold some of the Shatuck genas to local jewelers, only to have Dlent discover the true source after be had vanished lrom his horel.
In Rio. Shatuck, standing up miraculously under the rigors of the chase, questiened employes of the hotel where Jourey bad stayed. The man hatal fallen into conversation with a chambermaid about the Philippines. The mated lad once worked in a lowel in Manila, and Mourey liad asked her all manner of questions about the country.
On the strenpth of the information from the chanbermaid in Rio, Shattuck wene to Manila. When he reached that city, he went to the palice with the information he had picked up in Rin. The police had news for him-the most disheartening sart of news. Mou* rey had been in Manila. But it wis the same story all over again-he had sold
some gems, the gems had been recognized as Shattuck loot, but Mourey had gonte by the time the police could att.
Lhert 5hattuck relurncd to New
York. A year had passed now sine e quiet Sunday afternoon when he and his wile and servants had heen entorglaed. He krow he could not have very much longer to live. He was not well. His body was weakening, but his spirit was as strong as ever. He rededicaterl hianself to catching the two fiends at large. He brouked passage on a round-the-world cruise ship. He had a strange hunch that somewhere, along the route of the liner, he would spot one or both of the remaining criminals.
In every port at which the lincer docked as it travelled westward arnund the globe-Honolulu, Yoksh:mia, I Ione Kong-Ablact Shattuck got off and roamed the main streets, the side streets, and the alleys. searching, searching. Death, he knew, was coming closer; the criminals seemed to be as far away as ever. Then one day as the ship was going slowly weacsard through the Suca: Canal at Port Said, the eoughest city in the world, and Albert Sbattuck was leaning on the rail, looking at the laborers on the edge of the canal, he spotted a familiar face-the face of Gabriclle Mourcy. Il is long hunt was at an end almost. Mourey, in laborer's garb, was scanning the faces of the pansengers. His gave and the gaze of Alhert Shattuck locked. 3 ust the ship was in motien, con its way from Port Said. Galorielle Mourcy began tes run. "Stop that man!" sllouted Shattuck. "Stop that man! Stop this ship! Stop this ship" The crew and the other passengers looked at the old man as if he had sudtemly gone out of his mind. The ship did not stop. Neither clid the running man ons the shore, The distance between the sthip and the running man grew greater. Soun the man was ous of sight. l'resently, courageous ohd Albert Shattuck sank into a deck chatir and burst into tears.

Back in New York. a strange happening came to pass. Tommy Adams, the youd who had originally put the police on the tridi, suddenly recalled something, a bit of informasion tredged up Irom the recesses uf his subconscious after more than year. He recalled that ance he had heard Mourey saying that there was no place in the world like Paris in June. This was June. Tommy turned the stap of information over to the New York Police. The latter had been apprised of the episode at Port Said. The police in the Surez port had gone tu work uailing Gabrielle Mourey. The fugitive's path was picked up here, lost there, picked up again, lost again, in several Exuropean commories. But the trail pointed to the general direction of Paris-and this was June.
(ampielle Mourey and his comledG crate Paul Cansilleri were known to prefer Apacle joints when in the French capital. Albert 5hattuck. kept abreast of developinents by wircless to his ship, disembarked from the ship at Marscilles. He took a train to Paris. There he came to the end of his Jong trail.
He reached the cappital just in time on be greeted by the news that the French Police had picked up both Cabrielle Mourcy and Paul Camilleri Albert Shattuck sat in a French court. room and heazd Mourcy and Camilleri sentenced to life on that fortress of the condemned-Devil's Island. Mr. Shatzuck lived long enough to return in the United States and reward Tommy Adams, the lad who played such it wieal role in one of the most unusual manhunts of modern times. tile Enn


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## Platoon Fullbuck

(Contimued from page 8)
the facts of life. Quick. The seconds ran a play on Clip's side of the line angain and once mure the failed to make a really good try and the seconds motelod a ten yard gain.

They made the varsity defense look like a sieve every time they ran al play that gret tluough inn Clip's side. Then the Coach put Timmons and Cole and Haney into the varsity backfek, nent in foar new linethen. left Clip in at Eullback, and gave the varsity tle ball. Tod ltancy looked levelly atrons the hudelle at Clip as he called the play. We're supposed to be paying football," Haney said. "Deforse or affense, it's still Inotball. Let's go'"
Clip's lips tightened in a mirthless grin. Okay, so mayle Hanty had it figured. He could learn the lacts of life along with Mann. Clip Bell had his prugram laid out and Mann nor Blaney nor stryone else was going to fhrow a block on his palans. Clip noticed tarually that Mam said something tol Hancy at they came back to the huddle after the first play.
Hancy called a forward pass. Clip's assignment was to take a swipe at the defersive end then drift mut into the Slit zone for a prosible option plass if Lhe deep man geing down that side was covered. He carried out his brushbluck and cut out into the Hat. He saw the pass that Haney rossed and a thought popped intu his mind which he instantly dismissed.
Tle ball spiralled directly into the arms of a second tenm back almost as though lfaney had ained the pass at him. The defensive man grabbed the oval and high-tailed for the gral. Instinctively Clip wook a path to marrow the angle between the ballearrier and the sitleline. He played his man cogily, Inred him to make his try and then easily covered the fake. Clip hit the second team halflack with a driving tackle that spilled him out of bounds and the runtrack of the intercepted [rass came to an ahrupt halt.
"Nice tackle, Bell." Coach Mam said. He looked steadily at the fullbatk. "So you can tackle
Clip glowered. Anger bit through Co him in an instant. That thought he had dimmissed had been right.
"Yeah," he growled. "I ran tackle!" Temmmater lonked sidewise at him. Clip's anger was increased because of a gucasy little feeling deep insicle that he would have ficreely denied it anyone low accused hism rif having.
Coah Marn whistled the carl of the strimmage a lew minutes later. Clip jogged toward the fielchnouse and he was sery much aware that he jugged alonie. He lowked around at knots of troo and three playcrs moving of the fick together and he soowled ankl the Theasy little Feeling gnawed deep irl him again. He scowled harder. Be your age. Pretl. What da you care if the suols give you the cold shmelder?
The blowup came in the dressing twoll just ats clip was smaking off his practice jersey. Tod Hawey stood hefore lim 2a Citip's heat enacrect Imm the swcaty garment.
"Bell." the raptain said. "There are some things that better be ndid right now. In plain words. You deliberately dogred ti nut there when you were pais at backing up the line!"
Clije pulled idly at a lacing of his shoukder pads while lie cyod the captain. It secmed a full minute before he sp...c.
"Iook. sonny-bay," he sairl carclessly. "You can get in trouble yaketyyaking.
"So you don't deny that you dngged
it. You-you-and you're supposed to have Midstitte spirit! You-
"Nust" Clip cut in. He jerked the shoulder pad lace so hard that it broke. His eyes were black pinpoints. "Yon'rn the Joe College gent who yapped about Midstate spirit," he saict. "Me I've played more fouthall for Midstate -and l'll play more this year!-than you ant all the 'spirit' boys put together. But the forstball I play will be may hind of foothath. If anybody's got an idea that Clip Bell will he out there batting his lirsins out on soften up the other guys su the patty-cake boys can come along and pick the grapes, they better get another itlea quick ${ }^{\circ}$ 'S far as dugging it gnes, how abrut yeos towsing that poss right into the gry's hands rut there? Do ynu call that kind of stufl the Midstate spirit?"

TTom hanfy flusile: His fises alas kind of insinuation From anyous, Bell1"
Clip gave the siender captain a curious look. Why, the blamed fonl meant itl Didn't he know that he wouldn't stand a chance against a guy who out weighed him thiriy pundmls :and toms in toughness? Clip grimoted. He pat out a hand and gave Haney a little shove. "Be your age, sonny-brsy." he said.
The next instant he threw up his left arm and knocked Hancy's fist high enough that the blow bately grazed the top of his heas!. Pure rellex shot Clip's own balled right fist crashing against Haney"s jaw. Thé captain stag. gered backward over a bench and his shoulaters slammed against the row of lackers as the sprawled to the Inors Clip was instathy stamling ovet him. Then Clip's fists unclenched. He reached diwn and pulled Hancy to his fect.
"Trouble with you," Clip said tightly, "is you're so young! I'm sorry I belted you. You wouldn't stand a chance in a fight with me." He shrugged, tried a grin which did not quite come nll. "You wouldn't prove anythimg lay gerring your block knocked oll. You're just too youny!"

The ciressing romin was very quiet 3s Clip slucked out of his pads and peeled ofl his undershirt. Nohody said a word as he headed for the slowers
( lip slammen the covers of the book he had been trying ens sthity, tonswal $t$ aside with a gesture of disgust. He walked restlessly across the romom and looked out the window. Across the areaway, in a room of the opposite wing of East Dorm, four boys were laughing and goofing around. Clip scowled, moved impatiently away from the window. What was wrong with himis What diference did it make that nobody had come to his rooms since that incident three weeks agot If the patty-cake loys wanted to sulk because a gry wouldn't be a parsy far them, why let 'em sulk!
He picked up the sport sheet of a metmpolitan newspaper, Automatically his mind registered words that he had already read several times.

## MIDSTATE TO CONTINUE

 PLATOON SYSTEMCoach Mann confirmed uday that The plans to use separate offensive and defensive units in Midstate games this year. The new Midstate mentor frankly admits shat he lacks manpower to tuse the platron system as Michigan attd Noirc Dame and Army and other gridirnn powers utilize it. However, Mann is a firm believer in giving as many bays as possible in oppartunity in play fontball and derite the benefits fromwe quote-"the greatest game of all." Insofar as practical. Mann will ase the platom system in furtherance of his belief.


## REELING IN

NOW that the fishing season is over for most of you, you'd better think of taking caje of that line or you won't have any when next spring rolls around.

Here's what we think is a pretty good line drying trick. First, remove all your line from
the reel. Nexi, glue an cmpty cercal box to the cemer of an old of cracked phomegraph record. Now, place the record on your turnable and start the machine. Wound on this new reel, your line will dry out while it is stored in your tackle box.

Rufreshingly, Mann does not drag aut the traditional cryimg towe] When speaking of Alitstate prospects. WYe quote: "Certainly we have bcen hard hit by loss of experienced nna erial. No squad condri lose the men llan. Midstate lust and not feel it Full we fogure wh hate a foosthal

 taths we mect to chase tis out of the hadilum
© Slip threw the papot io the Hoor and scowlect at it as be fanmented bis
 tuad lull wat rocks. labling out what kind al line to the: sports writers! Whan did lic: think he wats kiddiam

TThree twerhy ol priatice gerne. A


 dereloped a pretty eroos oflensife ont fil. Lliey womld sorre againat just about any agpregation if they batce Clip bell ; liate Ixclp, Lur scotiong is an fillity ill umotern denotbad, full lime on keres the older gays fomen scoring adate thater you do.
(.lip glanced moroscly agais ontrisis Lle" areabay. S'lat Lhe dickens was the mater waln himp He told himsed that he was monning like as sab and weot on bed athd elreanmed abmat at lot of orher「elonss all landog lan while Glip Isell

 and jeeriug at hin.
He tele sour alme coloy evern lic lowe alteriown when be lelt the dressing roum for the playing hetre.

Trod Dalley cante back Irom the
 tord the squitul that lie had wonl the foss and had elected lo receive. I he: olconsive unit arathered aroumd Comis Naton Iritelly belore Laking posisian lor the kiakulf.

A study ul movies of vat gatme with Ohin last year iudicales al nut-too-bromgr center tris," the coach sand 'Our spintors and buck-laterals inside the tackles maty pay oft. Tod will rum Sivies A lirsi. A toudidown without losing possension of the ball wouldrit du us any harm.

Lect s we right lrons the whisule!
 lunip semmebordy.
Pepper chater cane from the play ers as chey grippeal hards around the hand of Coath Manm in the reater. A litule thrill san through Caip :and for a sucond's fraction lw was ramied atady with the menss elltinsiasin and wats mos thinking pripurily al ©lip Béll. He stuad in lis pasition out the goal lind directly in tront ol the goal posto and marveled. Wias lic liading lar this foe College guft!

I
 endener-ender don+i the middle CDip ganyiged the are ol the loall, wook a congile on wteps laack then chapal for ward to be in Lull stride as he grabloed the elescenting owal. Ite sued in be hind the $V$ of interlerence us he sized nfd the patterin of lacklers.
He stuck with his blockers until he bad mone. 1Ie saw an openiug to the lell and swerved loward the vicleline Ile was not a brilliant opene fielal run ner but he ran wath stach prwer and deceprive apeed that lie was sery dil Geult to knodk oft his icet.
Ohin tackers did mos hem him in until he hatl rrossed the ihirty-five.
"Nice aroingr," Tod llancy said in the luddle. "You tellas blocked. Keep lalocking. It's Series A.

Scries A was a sel of three plays run in sequence. Tlie first of the rerics called lor a fuli-spintmer by Clip alter taking a direct smap from conter and

Likaty in handoil to the wikghack
'Set,'" Ilaney birked, "11epl"
The hall shaproct laak on Llip on the "Hep." He hall-spun. masked the ball and haked in handoll to Leo Cale as the wingback slashed past. Clip connpleted his spin and drove for the hole that latel been apened ower the Ohio lela Huarel. The space yarmed invitingly and Clip kniled drough. slanted awaty loom a backer-up.

HIS Powerrel legs gintomed high atrd he batoke the halal ol onte whkler who had at shat inl him by he Sherr tripe ol his highkneed strithe: I villaney drew a block on an Oliou dian who thretateneal and Clip was atross the midfitld stripe Jefore tacklers swarned him tod the goound.
"Firmt soman!" the rederee shouted d.s he placeal the ball. 'tirst and tow,


Ihe second ol series A way rum brom the satue selup and looked exantly ats though it was a repseat on the spinner. But as the Ohios secondary [emberifed on the threatened paint of -ttiack, they disonvered titat Clip did bot have the ball. He bad made the handoll to cale It wils not yuite ad winglark reverse, but it lad the same general eftect. Cole caught the Oltio telense leaning the wrong way and he was argenuld the flank belore they recovered. They maniged to clase Lizu out ol babiads at Lle twenty-eight yarel linc.

Another first down. Thirty-seven Fards in two plays. Hey, Clip thought. Were better than I hgured.
fiut Ohio was rout a teatm to bose its paste osev a pair of gromad gataing fuths. Their delense Lighuened. THit third play of Series A, it variation ol the first wherein ©ilip olrowe almost the the lime of scrimmate then lateraled the ball to I immonor, the right fialt, gatind a bate two yads. Ohan stopperd Ciale alter al thec yarel jatunt affackle. Qilju alrove athe chesrach allad tore amel mada the first fowill oll the blios eigh. teen-juss made it.
"lt's d jump pass:" Hancy saial in the Intutle. "To Bell. Give him some blacking, gang-and get alorough dicre atid cul fast, Bell!"
(valb Nombed. He hrusloblocked atn (a Ohio lincman as le cane chroush, slipped pase hime and cut last len the left. Hancy delityed jost lomg chough. then fan larward as iloough it wios not a puss but a line sumati. He jumped
 : Coulet spial that was lighth in Chips hands.

Ohio knocked litw out of lwimnds short of the end zone but the ball was inside the fise and it was first down.
lour surging, ripping, battering ries man de aroused Ohio line-and Clip Bejl had scored the lirst yidstate touchadewn of the yeir. We trotted wif with the offensive unit ind watched Midstate's ory-for-point spcciadists do their suff. Tbe big 7 that went on the: sentebodrd Inoked mighty nice

That. Loucladown thould give the boys up in the press box and the radio bootlis material to work oll. Clip Bell's mane would figure very mromine ntly. Clip felt pretty good. He rubbed a shoulder that he hand nom unticed licing sore. Phase Olity babics were toumh. at lat.
Ohio prover almost intonediately that they were whgh.
They look the kickell. They ran a mustine line buck and then uncorked a pass play that was perfectly executed. The Ohm receiver was all alone twenty yards loyond the scrimmenge line when he gathered in the batI. He could have waltzed ower for the lousloflowil and when the convervion wats gual. it was

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It dial nou stay a tie ballorame very long.

Bidstate receivel atter the Ohio machuman. Thesy fanmat the Ohin de-
 firat thown, gething the neceswary diree varels an a delaneal buck on third down. But is lise deme through be-
 Ohit geys were made al srysp irmin! Cowh Matur sent in a replatement. Clip protested when we for to the lench.
"I'm okay. Just a lithe batha on the "houlder. It's mothing. "
 sail white the ratimer has a longk."

Thif trainere's veralict wias that the
 Ohio sored once agath in we sec yard, nat alter a fumble in their hack fiedel stalled a mastained drive. It tham 10.7 on the scoreboasd at the end nal the half.
The wecond lanll was at dillerime story. The relentless, haddedriving Ohis laack leegan naking more and more vardages Afidstates ${ }^{\text {s }}$ line dug in, battled hard. But the Midstate deleme Game more: and wore apart.
"One gond line backer in there and they wouktn't make us louk so lad." Clij) lieard Corich Mann mumble io humsell. He looked sharply at the macly and le met Mann's gise. Mamn

shoulder would stand up to slowing down those Ohin lacker
An odd feeling went through Clip. He lifted his welght slighty fron the bench as though he was going on dasta out on the field. Things Hasheal through lais mind at a mile-atscombed. Dort be a jork. Gro wat there abal get yomratl langed up for the ralt. rab hows, huhi Your dioukder ion' really back. Wrat's eating you* lon know hamed well you couddi's go b:t there and tog it. Not in al gatme. Manm has deliberately maneupered whu into this spot. Let him get away with it now

## He stumped back to the bemelt. It

 wat thinkine all acture koperki hat giwen lime...Jnok oul lar Number One all of the time. . . keep the status que. . He massaged his shmonder as he looked the coach squarely.." ene eve." Ine said. "I dnatt thank my shoulder could take it." HE never knew why he added. "We'd better junt еер) the sintus gro. Coadi Mann hedd the filloarks gate lor at long monnetut, There wits at olil-
lerent something in the burk of the conth's eyes. He nodded shomely is though he had come to a decisimn.
"Slatus quo, the condition in which things are". Coach Mann spoke srolly but thate was at thened of med hencabla the softness. "I think there will lex some changes made in the sfaties ghos I'll see pou in my olfice alter the (To ber Comedudet in Hows" Lim trar Octobers)

## Scanming the Sports Scene

Or Get Behind And Blow Wuring the Goiden Gloves tournib ment in Treas two middewcights, redhead and a blond had leeen Hailing away tor atmese three rounds. The
causul esged than on until hey grew 1) hied ther could an longer lilt their glove except lor hall-hetirted swings That lanted with all the impact of tointed matrishmallows. Spectitors woul.
 Ifom a clinch. a loul Texis barione bedhowed above the ving hublbuh: "Hey. Red: Elit him How! You got the wind with wh."-Sndmited by Prad Rhame

The Endlese Belt
Natly tales are told of fack lhemp-
 mo startes of th lith happuened to ax-
 ing swh an exhibition mateh. whe ol the Bintussid Atsuler's walking punching toing tried ta get cute. obscrving to his reommate, "They sure ouscrung te has rewmate, They sure
have nice Sunday momnings in Mcmphis. dan't they?"
"Cio bath to stecpr." was the retort. this in Wedmestily and you'te in salt

## When Men Were Men

When old Limor Honus Wagner troke into baseball, the spore was rough antl tough. A rookic had ta fighlo to survive and didn't esen dare take batting practice with the regulars. Wanner clams be was in the big bagues three yoars before anyme even sarcike to him. But, linally blie happy
day urrived. A Giath hu a scremanm homer and Honus comphimented hinin as he jogged past secomb base.
"Nice hit." said Wagner admiringiv. "Shut up. you tresh hather," snatileth Je Giant. Wagner says it wat the bappiest daty oll his playing cateer. At lats a big leaguen hatl sponken to him.

And Wateh Out For Splinters
Kinutc Rockne. Eanlous roarh of the Notere Dame tuotball teans. useal to is lusirate tough spots in :a fortlatill datme and then sutdenty turn upan some
 blacklioard problem.
 buddenly picked on a third string quar terback log the answer.
"What would you cho in such a span:" hue batked.
"Why, Mr. Remene, I didide at couple ol inches duwn the bendl) to fot al bet ter look at the nexe play

Scanning Sporta for Cash
Yau con earn five dallars in cash by sending unusual trua sparts staries to tha Boys Life Sparts Page Reportar, 2 Park Avenue, Naw Yark 14, N. Y. Any news which proves usable will be dallowed up and printad, and the reader who first provided the story will reeniva five dollars. Unusual achievements by high shoal athletes or teams, anecdofes about boys in sports, storises of outstanding young sparts personalities, or any outstand ing sports event in which youthtul confestants star may prove to be worth five dollarg to you. Use a pastal card, send a newspapar clipping. a magazina elipping, or wrile a leftar-hut get in your sports tip.

## You Tell Me!



Ouizxid, Jr.


1. You won"t have to wurry athout he coming leat if yau have a cumpass. Scouts put it on a romek to $\square$ mimullify rrading E stop uecalle motion.

2. If you want to get elose to animals and birds to observe them, you have to walk quietiy. This seont हhauld [ should not pot heels down firmt.
3. If youl get a blister on your foot while oul hiking, you should wash the foot and break the bliwter. $\Gamma$ upply antiseplie, $\square$ fover with sterlle bandage.

4. These Scouts are following a trail left by someone who has gone ahead of them. If you were in their place yon would $\square$ go right, $\square$ left, $\square$ gostraight.


5. Scouts should know that the trail sign tells you: $\square$ short distance to the right, $\square$ quite far to the right, $\square$ not far to the left, $\square$ danger, $\square$ stop.

6. Scouts are careful with knives and axes, Either should be passed handle first, with the hade edse to one wide since it's $\square$ safer, $\square$ a wounls castom.

## Scoutcrafties

 5 curact. Which makes the wetckuris fust wice as en joyable! You'll probably les: hiking the tralk every chance vou get, explaring the conutryside, breathing thar fresh noutain sir sos let's clect up on mar hikitg akslls and ser what wir kraw. Check hie allwerthens twis to prage fis for yotr acuse.


1. Drink only water you know is pure. When in doubt purify it with Halazone tablets or iorlíne drops, and fet is stane at least $\square 15, \square 30, \square 60$ minutes.

2. This Scout is using his axe as plumb line to sce which way to fell the Iree. He will firat eul [ $\square$ an the leanire side, $\square$ oppowite the leaning nide.

## From our DUFFEL BAG

Your Ruativ Tronp Sigu
An attrarlive Tromp, ign ran be mate from inexinnsive or ever give-abay materials Iram athy sammill. All yor have to do is get a stals of wood whit the layk non me sitce. Then get amall atrips al clean wool trast one-hall is ane inch wide. Cull these into honghow beded io lorm whatever letters you want, then stain them and tate then on lise slats to apel! , um your Tromp



## Another Foil Cooking Mint

When you mext are allumimun fait try cooking oameath. stowed fruit of the like. Heme"s hew: find a larked sapling. hend it arouvd int
 toremher. Farm a dondle layer of Foil and press it thatugh the huop (1) Whe required depth, Next fold the loil edges tighty over the rim of the hoop. You now have a pot you wont have to wath. Be sure to fut your Eoul in your loil basket helore holding it over the dire.Aluir Wyensom, Troop 75. Los Angeles, Coliformia.

Try Thin Personal Trail Kit Your uail kit is made up wih a learher electric shaver pouch which Iwolds thee Eollowing handy itemes a pookel fashighta, of rator blade. sis
 paper. some aspirin tablets, a procker haile, a compass. a cail isl copper wire, at small roll of athebive tapr, some string. :bout eight water-parool matches, at stall hote laouk ankl pentil.- Rudmey Cuma, Tromp $f$, caltusator. Tems.

## Wind Yourself a Toaster

You'd probably hase luas on wach of your camping wips if you
knew any concmien way to make it. Well, lore's me: simply find a forked stick, thell wrapl wire back and forth from the base of the fork to the ends. 111 you do now is rest ap piece ull brcad on the wire crossings athed hald it over your hivefim Soding, Tronp iz. Winven, Penatsy/tantin.

## Salt Ant Peppar Shakers

Stop in your nearest photographic stare and ask the clerk for two :5 han filas containus. hhers you ger lowne punth a saries of holes in each top, All atmple supply of sall and pepper ran lec keps in these comsaners--R. C.. Trmot 1, Galwestan. Trexas.

## A Camping Pressure Conker

The next time you go on a lize, take with you al one pound cotfee ean. Whell it stime to stant cooking

## SEND US A FIVE-DOLLAR POSTAL CARD

Bet you hove neveral siunty or tricks jusi as good an those above maybe bellerl LET US HAVE THEMI

Write out your gaggelion for a gama, conlegl, handicraft, Patrol activily, campIng Idea and whal nol ON AN ORDINARY PENNY POSTAL CABD. Includa your name, oddrean. Patral name. Iraop number. Send 10 "Our Duidal Bag." c/o EOYS' LIFE. 2 Park hwenue. New Yark 1E. N. Y.

BOY' LIFE will now pay FIVE DOLLARS tor each suggeallon pubtiebed.
It the same idea is gubmitted by more than one racder, the fret ont received will gel the maney.
put your potatoes, carrots or what have you inside the can. They should rest on a makeshift rack to keep them out of the surall annount of water in the call. Next jull the top ol the can on and seal it aromed with scotch tape. A small pin hole iil the top of your colfee can will allow the steam to escape Goull have to experiment with the time it lakes different types of toxd to be pressure rooked Bob Bever. Troop $\mathrm{iz}_{2}$ Charles City. Iowa.


Herces A Towel-Toilet Kil Fold and sew one end of a turki.th tuwel ane-thiod of the way bark. Next sew a piece of narrow binding t:lpe to the lop of the towet. This is your tie-siring. To forsm the thrce compartments siach as shown in illasmation. The entire unit is mashbable ank can be used as al tate tencel and toilet kit.-Tohn fibsom, Tion p ybe, Chirago. Minois.

## HOW TO MAKE YOUR OWN SHEATH



Ontline blade on piece of leather. Allow 1/a" margin around edges. Be sure


Punch holes and lace with rawhide. Cut slot for wedge and push it through. Fold over belt loop. Fasten securely.


## ..for an axe



Lay pattern on leather. ontline with erayon, then cul evenly. Single edge -razor biade or jarkknife blade buef


## ...for a knife

Old boot is useful. Match first piece on strip long enough for belt loop. Then outline it with crayon and eut out.


To prevent knife calge cutting the leather, rivet thal side of sheath. Then slip over belt; tie in knife.


Cutline nwe an paper allowing ypace for hap and hatk edge of axe. Allow $3 /{ }^{\prime \prime}$ margin for rawhife.lacing lonlea.


Punch holes. Start rawhide laces with overfarsd hnot. Cut belt slots cvent with axe handle. Rivet ag for knife.


## PIPE BAGI AND PDOCHETET

SNCE THE NDIANS COSTUME HAS NO PGGKEIS RE CARRESA BAG FOR HIS PIDE AND TOBACCO AND SOMETIMES A SMALLER ONE FOR DAINT, FLINT AND OTHER SMALL ITEMS, WE USE THESE BAGS FOR A SAFE PLACE TO CARRY SULH ARTICLES AS BILLFOLD, WATCH, LOOSE CHANGE KEYS OR WHAT HAVE YOU. BESIDES BENG USEFUL A NICELY BEADED AND FRJNGED PIDE BAG ADDS A LOT TO ANY INDIAN COSTUME.


BOTH SIDES OF THE BAG
ARE USUALY BEADED ARE USUALLY BEADED BUT
FREQUENTLY IN SLIGHTLY DIFFERENT DESIGNS.
 43
-CROW PIDE BAG GREEN RED, ORANGE
AND LAVENOER BEADS LARGE SIOUX PIPE GAG RED DADK BLUE GREEN AND BLCEGROUND.
 SUEDE LEATHER OR SPLIT



## GLASS 'EM IN

BY GLENN A. WAGNER

T-HIS IS A FIVE-GALLON $8^{\prime \prime} \times 10^{\prime \prime} \times 14^{\prime \prime \prime}$ aquarium. Here's how to make it.
You can cut and bend the metal strips by hand, but you'll be able to do a better job if you can use a machine, perhaps in your shop class in school

For the soldering, use a well-tinned iron, coat the joint with a little flux. Don't overuse solder.
The materials needed are tew, Get a piece of leadcoated gutter stock or galvanized iron $12^{\prime \prime \prime} \times 19^{\prime \prime}$ (1pproximately) and about .omo" hick. We used the leadcoated stock. Cut eight strips $11 / 4^{\prime \prime} \times 19^{\prime \prime}$ first, then cur [our pieces exactly $14 / \frac{1}{8}$ long for the side strips. lour pieces $101 / 8{ }^{\prime \prime}$ long for the corner posts, and tom pienes $83 / 8^{\prime \prime}$ long for the ends. The pieces must be cut to lengith belore they are bent $90^{\circ}$
lou'll need two pieces of double-strength glan $\mathrm{N}^{\prime \prime}$ $10^{\prime \prime}$ and two pieces $10^{\prime \prime} \times 14$

The bottom is a piece of roofing slate about $1 / 4^{\prime \prime}$ thick. Blackboard slate is ideal if yout ait get it. Glass may be substituted for the slate if necessary.

Aquarium cement can be purctased al most any slore that sells pet supplies. This cement is tlexible, tasy ta use, and will make a perfectly watertight joint.

In sctting the glass, the two side pieces are put in place first. Then the end pieces are set in next. Finally the slate bottom is set in place. In this way. the ends hoid! the sides, and the botom locks everything-

Alter your tank is completed, clean it thorouglily in= side and out, fill it with water, and let it stamel at wek before you put plams and hish in it. Don's move the rank when it has water in; ernpty it first.


Culting the melal strips is cany if you
use squaring shears. The bark gauge thould be set for $1^{1 / 4}$ " lo cul earips.


Naw iurn the ate the juint on the outside. Note how lit Je polder is used, tho the corner gap


Foll the cement between the palms of your hands: make "worms ${ }^{\text {sh }}$ aboul the kize of a pencil. Linc ome side frame.


The thar folder is used to bend the 90 angle, It should the set mat carl strip will be bent exactly in twa: 5/a" nidea.


Complete top and botom frames, then set up one of the corncr posts, Cherh post with nquare before zoldering juint.


Set one of the side glasgea in place and presh il into lize cement will a steady pressure. Cememi will onze out.


Make a sioule jig to hald the strips at right angles for voldering. Set up two


After the ather three wosts are added. the framework louks like this Note the
iuint details, how the cormere are done.



Use a 1" C-clamp to hold pieres firmily together, then sulder the on the insife of rover


Text, the top frame is ret in place and andered to the rorner
posis Clean off all llux, dirt. place. You thay have to apply

Clean oft exceas cement inside und out Last of all, put the hothom in with a blumt toul, then wipe glang with a cloth. Do other side mext, then ends.

## Yoo Hoo! Mudhen!

(Continued |rom page ${ }^{18}$ )

The [. B.s shared Frogrie's doubes out were ready to sanction almost anything that misht stresperther The Muchen's laith in himsell. If his leminimity was not questioned on the street he might yain the assur. ance he so much needed. Therefore they buttoned him up with care, pinned the big hat to his wig and sent him forth to test the ways of providence.

Though frogeic lad a large surplus al skeptitism lic was loyal io the corce so when they reached the sidewalk he wask The Aluther's arm with at gallan! gesture and faced the
 tripped along langhing and chationd wilf his escore in a voice that would lave ron the blockade al a junior prom. Itis beanty was not the kind to laturh a thomsand ships. ban there
 ted he could paddle lis own canoe. He bad açuired confidence.

Ther took in the hasitess section, itlling along witudow shopping while liroggie dripped eold swat In lear the gialoot would cuicer al store and price nylon stockings or perhetps someLhine worse when they lzad navigated the crowd in front of a movie house they bore away tow me the residemial district again and Froggie saw with delight that his date wath tiring. Even the aest for actimg rould not for lous withstand The Muthers's inborn aversion to physical exertion. A tew more
lidents and alis mystery ship wridul be zaffe in port after the mosi hazardous woyage the good lug "Frog" had ever made

T
Than a mine explomed under her 1 bow-Chece Eastman and Kij Anderson came around a romer under a stred lanup.
"Hi, sou geguy!" Froggie tried to sount monchalutul and masserl lay two hundred and nillety-nine points out ul it possible three Inandred.
"Hi, Frog!" And though the other two were Bears they malde woll noises ds they passed.
Frogesie glanced back and saw them doing it dauble tikt. Inutinctively he knew it would be latal. for The Nudhern's stern was the most uronvincing part of his lulh.
"If it ain't Mud!" Rip explioded, while Cheese remarkeal that be would be a monkey's unde.
The Mudhen knew the jis was up and made mo atcmpt to escape. "What." he asked languislly, "is wrong with my practicine the histrionic ant in public? Does it offend the litule

"You tlidn't lonl inyone," Checse cruwed.
"Quite a few." Thic Nualhem ansswered complaternly.
"I bet he could walk righte into at house and make' 'cm think he's what "Yeah. what he looks like," Clicese iibed.
"I'm not so ware he couldu'l get away wilh it." Kip admitted, For he appreciated hib brether actor's athility. "Want to rry it, Muk?" Cheese's eyes had a sudder glint.
"Nr." 'The' Mudhe

No." 'The' Aludlenen sighed. "These darin shoes huri my lect. ${ }^{\text {T }}$
"I dare you," Cheese cricd.
What you monni"
Listen. In today's paper the Burnle hee advertises lor a maid. I dars you to go up there right now and aply for the job."

In the creed of a good Eagle one Thimeg atmok all others was latw: never reluse at dare lrom a Bear. Never give those despicable varmints a chance to throw out their chests and say they hate stopped a number of the rival trat. The Mudherit looked more that laff asleep, bue hic फats thinkines fast. The Bumble lee was a trifle slow at pulting two and two kogether ame allso he wats myopic, which would halp. If the lighns weren's tow hright there would be a goond chance of pulting the genteman's leg, an atratabe possibility in itself, nor to mention wrapping up the diare.
"I'll dow ut," he accepted. "Il you guys want to see low an alotor worls. cume ilong."
They wetoll and they satw. When Mr. Beentinn answered the dombell hib pudgy form was nearly concealed Lyy along rubber apron, Beside him stoud a bulldog whose facial expression wis ar reassurinus as atrucklonal of TNT
"Dear me!". Mr. Beeman's sideburns yous. mhower you are, will pardon shy altire: "
"Dethintely," The Mudlicn answered in his prenty woice, keeping unc eye on the doy "I ant Myrale Towkslury. 1 hearel you want a matid."
"Yes fadeed!" ble Bumble Bee bub. bled. "Mrs. Stebhins, my housckeeper. necds assiatance. Please come in.

The doge mutuered semestring under his hreath tor the effect that he, persomally, was allergic to mails.
"And your friends also." Mr. Heematn added. peeting through the doorway. "hey're kids from the school," The Mudlow explained. "I have worked
 al relcrences."
"1low nice!" Mr. Becman secmold relieved to find himself among friends, for all the boys liked him. "Ciondcyening Bates-and Easmath-and Andersmi. How kind of you to come."

No trouble at all, sir," Cheese sait truchlalls.
"Myrtle is bashful with strangers," Rip alldect.
"The deg won't bite, will her" Froggie isked athxinusly.
"()h mo." Mr, Betman smileal comfidently. "Alfred is a perfeci lamla."
the lambs snilled Myrtle's dress and made a moise quite unlike antything usually found in a junior sheceps vocabubary
"(io away, doggit," the matid suggested, edring into the hall.
Alled curled his lip, showing at set of teeth that Red Riching Itomis perwalo-gratadmother might have env victl.
"Conme right into the sitting ronm." The Bumble Bee turned and nearly collifed with a washoub of water that stond near the lont of the stairs. "This is the day to wasil the rubber plants. They have become so latre it is casier in carry the tub to them tham them to the tub." He motioned toward three large plants that stood in a huddec as though dreadime the bath.
"I just lowe dlowers," Myrile triliexd.
"You maty have usc for some belore l'm through with you." Allred said in ...log language.
"That mutt don't like-wnmen," lirnggie whispered to Rip.
Mr. Beematu sumped toward a chair. "please lue seated, Miss-or is it Mrs? -Tewksbury."
"I am munarried," The Mudhen answered alemurely.

Yes, yes, only a girl, I assume."
"1 :111 seventesb, sir."
"A tencicr imge, is mere roschud, if I may sisy so.

The rosebud's threse escorts lookent hard an the rug, while Alired walked back and forth in in stiff. unsocial manmer. The critter might be at lambs, but Myrtie had allt tundeasint luarish that min ore wats going tis pull the woal over his eyes.
"Dts y+us like dogs, verumg laty?" Mr. Iteentat inquired.

Inev lassinate me.
Hase yon noticed how Alfed fixes his gaze con you?
"Vers, sis."
"Dogs have a way of appraising surangers."
"Nes, sir." Beman became tousinesslike. "I suppose you are limilar with housework?" "1 was raised by a gowi mother." Myrtle cant het eves donil
"I arm sure min were." The Bumble lhe stroked his seteburns tumphatully tor a mometro. "Bui I feel momatrabed to consule Mrs. Stchlins inatmuch as you would be her assistant. Fixcuse me. please." He tretited lram the rows.
"Nice maing Mw!!" Kif whispered.
"Rosehud," Cheese sigeled.
"I non't like that prach," Froggie conficters.
"He's a stinker." The Mathen declareal.
"Gimifirti!" WIfecl cmimmented.
"lgnote himo," Checere waid. "Hr'll know if ven're afrain of him. Anhmals have a sixth rente that waty.
"Sn have I." The Monthen said. "and it doesn't tell me to ignore that kind of a nolise. I wish-
"Red light" Rip warncel.
Mr. Beman entered with the middle aged housckeeper, who went to work on Myrtle. The results were so gond that she suggested they go upstairs to leove at the namid's room. Myrtle demurred, but Mrs. Stehhins insisted, and when Mrs. Stelobines insisted a Missouri mule would move il his tail were fruzen in the Gircenland ice cap. So they went up the stairs and Allred followed. There was something simister in the way lue dide it , as thouglt tikheously aware that he had been chosen to play a part for which he was suited.
At the top aif the stairs he got his cuc. Myrtle, whom he knew darn well was a phony. casually pur out a hand toward a small table that was litered with miscellaneous articlek. So she was a thiel, eh? Alired lunged, but his leet slipper juse enough to shorten his aim by an iuch. Wieh a snap like a bear (Tap. his teeth caught the sleeve oi Myrile's dress. Right then The Mudherr cast aside pretence and stowd torch for what he was-not a timitl gird, hut a husky young man who was plenty wared. With his other hant he grabbed Alfred's collar and began twisting at which the dog let out a grow! that would have set Daniel Boonc looking for Old Betsey. Mrs. Stebbins alsm Fainedt her voice, which was in excellent wrorking order and ascented with the rapidity of a rocket.
An angry bulldoy is a bat thing to have on one's lands. The Mudhen's urgent wish was to get rid of this one as soon as possible. The raised buth arms ancl swting Alired, who swaight ened out gracefully in the air and sideswiped Mrs. Steblins amidships.

## Do You Know That?

thant iwn renturies ago harherg were allowell lo perfortu surgiral uperations oli litimanm, Far dhîn qeasan the rolnce of barber poles are sed and while-the red originally reprenenting hlond, the white rejrmenting Inandager.Chartes Ormabr, Fiderfurd. M. Y.

The nemanc, induding the inland enala ronmerted wilh livem, mover 142.232, 9 an sipara miles ur seventytwo per rent of thin talal nurface of the earth.-Larry Trover. لit Granke. $V$ yoming.

Many mouple who lived $1,00 n$ yeara before Citumbus hnew that the world wis round. Citain Nither, Onkhand Calij.

In Brazil the Torana Indinms imitate fulling rain by tuppisg on druma to farfine tucsudreat ants to ihe aurface of the prommd. The ants innte up to get hointure, und are rapurirel. The Indiall onmider llese lurse insert nap for Fobd in soul
lulu Brecuid

The entire world wan once hold at aurlion and parmlabed fur live million dollals- When the fonmen Emperor Pertinax died, the world was austioned tiy ilie Practurian suurd to the lizhert bidiler. A weulihy merrhumt. Didun Julianuw, nol?ered the hixheal price und in his own riplit berame the supreme ruler of the wirlit.-J. Fred Natinger. Willerdberry, Perma.

Nearly 100,000 men worked lwenty Nearly 100,000 men worked twenty yare in huild the Pyramid of Chenp whirts is the largest and anpparealy the ldees pyramid in Epyll.- Frank

The moustains on Vonus range up io one hundred miles in heiphy, and thane on thr earthia moon are fuur miles high in mome inatances.-Isabel Stafford, Sult fake Cäty. Urah

The enrlh moves in three different dirutiona at the same time. It rntater upon itt own uxin, It revolver around the sula. And it paraicipates in the eunt own forward motion in the direction of he fixed stur, Vega. Derid Gracf. Fors Wayne. Jiad.

The Beaded Chae Tindon, a fisll in India, catchet Alox hy slonoting them with draps of water from his lreak gun. The fish cjecte the wuter dropa in rupial auccestion ot the invecta on leaves blong the river bankn.-Charles Johmson. Las Cruces, New Hexice

Cnnmibalinm sopposedly began with Cannibaism rapporedy began with the belief thul when a man died, same onte olac would inlieril hia pood quutiMeAnliffe, Belmont, Mas.

Enmineara are now equipped to luild rocked thip capable of reaching the moon. But they crant find any one th finance the ship's constrastion.-Jumes Dick, Colorado Springs, Colo.

BQYs' LHF will pay $\$ 1.00$ for every "Da You Know Yhaf?" accepfed. You run acrass them continuality in reading namspapers and books. Piease five seuree of information of substampiating fects wherever possible. Be couse of the number submitted norte can ba acknowiedged or returnad When the same fact is submisted by mare than one reader the first re celvad will get the reward. Send yours paday. postal card will do, Address "Do You Know Thotp" Goys' Life, 2 Park Ava, Naw York I6, N. Y
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## men's and boys' sizas. All white in men'size.

for TEAMWORK - for CLASSWORK - for FUN



Grent grendeladdy of 'em all! Wait till the gang hears how you hooked him, the tremendous fight he put up, how he elmost got away, and then... How you rode home with him-alorg that old path through the woods, down Sugar Loaf hill, across the bridge and back to Route 25-prectically Hyping all the way, thanks to that slick New Departure Safety Brake.
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(

# BOYS' LIFE DANIEL BOONE TARGET SHOOT ENTRY FORM <br> [Please print or type below] 


"I hereby cerfify thof, I am the Shooler's parent of guordion, Scoutmaster, Assistant Scoutmaster, Comp Rifle Instractor or Juniar Bifte Giub Imstructor (Wrderline ona) and ofter ocqurinting arself with the rates gaverning the 1950 BOYS LIFE-DANSEL BOONE TARGET SHOOF. / personally witnessed the firing of the scores lisfed abore. Those scomes were fired by the shooter speained and in full compliance wilh all rules.'

[^1]Signature of Shoater
Reifu Used:
Mantufacturar Model No. or Name

The good woman was quite upset, so much so that she rollod over ont the floor and then went memrily burmping down the stairs, completely at the mexcy of grayity.

A$A^{1}$ ine wery momant of her down fress aloevoreds conat broke, the hiss siceve gave way. The Mudhen Apum of labance and clog and boy joinced the lady on the downward path. Theit combined descent formed a llyins ball of fect. elbows, petticoats. tur. displated batustrade, yells, screams anl growls. Even when the mass catme
 monewts passed bufore jts individual clemats could be itentified.
The Mudien broke away first and stood half-crouching as he tried to get his feet under hime amid the tangle of lus skirt. Allied came next, fast. IThe Madicn Japed for the piano, but the dress sitived with the lalldug. Cheese, always caln in a erisis, snatahed up a rug and enveloped Alfted, at bypro duct of the maneuver loeing an upset chair idat landed on Froggie's shin. Rip eame atotas fighte end to help Ghecse, but mes the Bumble bee instead. The older pentleman skidded on the bare ilnor and slit under a comer whatrost, which collapsed, crowning him with at framed picture of Lincle Eben Beeman. Cheese, Rip and Froggie converged on rug-wrapped Alred, carried him to the door and threw him but.

Even when he was gone the siltingroom was not what it lased to tee. The
furniture was scattered like witud felled trees. Mr. Beeman sat on the lioor surtounded by the whatroot and its catgo of bric-abrac, and on lop of the pianorstond the Muthen wearing onts his B.V.D.s. Suttenly Mrs. Steblains, who had been temporarily mislaid. rose from the wreck of the rubber plants. pointed a comderming friger :at the late Myrte Towksbury and screechen, "slie", a man!" She wok : horrified hackwate step, swayed and sat down int the wasturuls of water

Everybing had happened that could happers, so chatually the shoming and the tumala died. Standiong in the midat of the wreckage, 4he Burnble Bee glared at tite shiverimg Mudhen.
"Ciane," he siald sternly. "I demand ans explanation of this grank.
"Irank." The Mutherl made, a hopeless gesture. ' 1 was onty trying tos ןerlect my art Mr. Bermill.'
"Your-arle"
"Ay acting. I was wiven a fembine part in the school play." He parased. when laid it on thick. "I thought if ! could deceive a permon of vour keen inteligence $\mid$ would be able to ata convincingly on the slage. It was an experiment for art's sate.

Whatever Ay, Recman may hatwe thought, he was good ennagh ㅌuport to omly say resignedly, 'Very well, Coane. Bul in the fuodre please experiment in a circus ring or some ather place what is cuitod to the excrcise of wour talent."
"Yes, sir," The Mudhen answerme humbly.
the e.vis

## Satellite Scout

(Contimus from page 29)
to avoid the asteroid belt. Artyoody knows that meteors are an real hatal unless a pilat foes stupid thimgs like driving intu the head of a comet On the othet hand the isteroid lelt luas it lion's sharte of sky junk. She wleter ships druve straight through, and nome was ever hil to sipeak of. But Ciplais [yarkness, havity power to spare, tolayed sale. By avoiding the belt thero wasn't a chance itu al bee bwon that the Mayfower would be fill.
Well it was a "Ulue moon." We were hit.

It was reveille, "A" deck tince, and I was loskling my milom to put it under my pilhum. Sudifenly I hearel the goldarmest moise 1 ever heard in my dife. It stomated like a rite going ofi by my car, like a steel door being slammed, like a giaut tearing yards of cloth.

Then I couldn'। hatar anythiner and [ was dlazed. I shook my head aml fooked down-and 1 was staring at at raw hole almost betworn my leet and ats hig as my fist. Through the Invie was backness-thers at blar whipped past and I realized that I was staring ollt into space.
There wast a hissing noise.

I
boy't rembMbra thinking. 1 watded tup rity uniform and stuffed it in the hole It seemed as if the suction would pull it on through, there it jammed. But we were still losing ant

Noisy wat yelling and altrms were ringing, 'Ihe atitight door to our compartment closed aturomatically and locked us in.

That scared me silly
Sure, it's better to kill a few than to let a whole ship die-lont it was my ntek.
The pressure uras surking away at the plug tut ] was afraid to stulf it in hadder, for fear it woultrl pull through and leave us chewing vacuum. Noisy Efluards was beating on the
door and scraming, "Lef me out"" and the lumblseaker was shouting. "Htwelve! Cabs you hat me"
1 welled "QUIET!"
One of ruy Culss was staring at me. "What happened, billyr:
1 said. Grabs a pillowl J'ul it on tup of ary hands!'
He gulped and did it.
It was an ordinary loanti-ubber fillow. I matuhed one hamod gut and them the other, and pressed it down. It dimpled in and I was seared. But it held. The loudspcaker was still shouting tor comparment $\mathrm{H}-12$ to report. I Yellet "Owict!" and added, "Slug Noisy]"
Someborly poked lititu and they
 keep ramiet," I gatised and shoumed, "Htwelwe reportha!

The Captain answered, "What is the situition?"
"There in : in bofe in the whip but it's corkect up.
"How? How biy a holer"
I todel him and that is about all there was to it. First they had lo inolate that corridor, then two men in space suits operned bur deor atad thased out everybody but me. 'You cant get up riow, kicl." one sad. his voice hullow thtoukl his helmet. I'le other took ower holdding the pillow.

They selte me out: the corrictar was empry bur I banged on tha: air-tight door at the end and they let mee thromph. Then we waited and finally' we were allowed to go batk to our butk thom. There was a plate welded over the holc.

THhat was why I went to Caplains mast again. George was there and Wolly and $\mathrm{I}^{\text {Peggy }}$, and my Scoutmaster. Dr. Archibald, and my roommates and the shers atberers.

The First Officer shouted, 'Captain's mast for punidurents and rewards!" as Captain Harkuess came nut. Dad
showed the forward.
The Captain looked at me. "William Lermera'
1 said, "Yes, sur.
Ife said, "I read from yesterday's fog: 'On twenty one August at old-seen-oh-[our Greenwich, the slip was hraached by is metcorite. Interlocks isolated the punctured compartment. I twelve, with no serious gercsare drop Astwere-

A passenger, Willam J. Lermer, contrived at path and succected ir holding pressure for breathing until cparir party touk aver.
Ilis alernens satwed the lives of atl persons in comparmentit 11 -Lwelve. I he Captain added. "A copy will Ise: semt to Inturpanctary Red Cross I hase no way to reward you but you five my hoartich grabude. Ispeak tor all hands and most ebpecially for the parcints of your bunk mates.
lle wem on in a low vaine, "A yood jold. What fon were on your tocs.
I sibil I had reen lucky
Ife sairl, "luck comes to the manl How is prepared for i
We left. George and 1 together, Molly and I"esgy lothomiag. A hearal Pexty
 маіти."'

A cotrece on pays Later I mon into " vou." lie said.

What's on tour minde"
'Vou think you're smart!'
I dital' like his tonc. I said. "I don't himk so: I am.
"Pretty wocky You think I aught to be kissuxg your band for sawing my life?

I saitht. "Skip it; it wasn't lor youn." "I know.'" he answered, "and l'ut not gratelul seep
linte," I told him. "1 trouldn't walat pratitude frome at guy like you."
He was breathing bard. "That"s enough from you." he saith. Thert I anght a mouthitul of knuckles.
I got nip cautiously trying to sur. prise him. It was no goed, he knockerl med down again. 1 uricd to kick him but he thaned out of my wity

The thirll rime 1 staved down. Wha 1 d quit sebing stars he wats gunc-sind I
hadn't land a finger on him. I lay awake that night trying to figure out ways to fix him, bua they weren't any good.
0
HHL IWENTY ousin Captain the decelness started bringing us in te) lo came oun of eclipse passal jupi akr, then a dark blom-red dise, and chen it was a brilliant orange: 11 propped up like matric.
 uff to the right: fanymede wats almost straight aliead-and lucte wass a funtry thins; Callisto wats silvery, Io and Europa were orange: ?anynutde was dowtrright dulll

1 asked Cierorge: hac salicl, "Cranymede" used to be ws bright as to and liuropa. it's the fareenhouse teftel-the hear Ir, pl.

1 knew ubout the greenlouse effet; it is the liggesest pare of the ammosphere project. When the lans expedition fanded Ganvmede was a couple of lions. dred degrees helow zero-cold enough tu Ireeze a ghost!
"Look, George," I olsjecter, "I known tut why is it so dark?'
'Inght is heat; heat is light," hu athswored. "Light goes in atod doment come oht-and a good elotng tou

Captatit Harkness pul her ja a cirtular mbit about a chousand miles up From Ganvinede. We lad artival-an mon as somebody cance and got as.

Ihe irip dowit ios Ganymerle mitele me suspect that being a colonist wasn't all stamor. There was just onfe shanle ship, the fitterbug, and she could carry only mincty att a time. It last it came sur invos the fiderbsg was tertible: stide air and dirt. There waren't any fraches-just pards which we covered shoulter to shoudder. I'he skippet was an old demale called "Cuptanin Thatic." She drote atray so hard thete I blaked onde, then we dropped lor twenty minutes; she frammed liet again. ambl we
dablal. with a termble bump. And ( itptain Hattie was shouting. "Out yous corme, ground hogs!"
 The filteibus carried straight oxygen at ten pounds; now Captain Hartie spilled pressure to atlust to B.anymede's three ponnds Iloree pound ol oxygern is enomgh to live an


## SO YOU THNK

$\mathbf{W}^{\text {Fi.I. }}$, they don't, at least mot Whe way their name "fying syutirels" would have you believe. Thesc crearures have a membrante stretched between their [ore and hind legs, when they jump from a tree they spread their fccl. The nembrane is strerched ande becomes tigltened.

The squirclls drop ans then

чwool down at abour a tortyhise degree angle to their landing spot At no time during this "Hight" do they Hap in any sense of the word. At the end of thcir rapid glide they use their tails as elcyators and by the momentum of thcir body can lift themsclves slightly to a landing position on the branch of a tree. Now you know.
 THE FAKYOLD CNGINWAT
PELSS OF 1908 PUNEDOHF ReLS OF 1908 PuLEDOFF ONE OF THE GREATS OF ALL
BUNTING EXUBTHIONS JHEXE MOD THEFONELH SOUEETED

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## SPALOING <br> (40) SETS THE PACE IN SPORTS


but suck a sumiden drop makes you gasp. Peggy gut a mose bleed.
tie hed to climis down a rope ladder, the wind was bowling, and shaking it. Ihere was snow on the ground except where the jet had melted it. I could hardly see. Due a man grabloed me and shouted, "Over that way!"

1 lieacled the way he pointed and found a path, trampled to slosh. I could see people disippearing in the sinow alitad alid I trolted alter.

It was half a mile to the shelter and cold all the way. I was chilled through by the time whe gol mside.

The whelter tais a big shed. not thach warme:r and fanmed with people. The colemial men here bearded and some of them had bong hair as well. I finally found George \& Co, you could see that I'erg's mose had been bleeding and there wherd tears dual dirt un betr bace. Geurge lomked gluasiy. I came up and sitit. "TII, folks."

Greoge lookal around. "Well, Bill! How is it going?'
answered, "It's a bhambles."
I had understated it. Just how had a shambles we had still to find ont. The calony wasn't ready for us. They had been moseying along, getting about live humdred immigrants at year, which Fas all the old-type ships could de-liver-when suddenly the Colonial Commission dumped six thousand people on them.

They did the best they could lor us: they rumed their town hall into a bat: racks and set ups a kitchen to feed us. but we were almost as crowded amel uncombartable ats we liad deest in the Aayflower, and familes were split upall the mons and boys on one sicle, all the womeri and frirls on the other. That mate Dand pretiy sore.

THivy hiton't built more Juildings [or us because they couldn't. Except lor a lew buildings made from sheet metal brought out from Farth, like the receiving stalion and the town ball and the lydroponicy shods, all the buidings in the tom 11 of leda and all the firminouses ware tut dronn country rock. No wood, no glass. na plastics. no hatrduare-Gintrincale lad been just a ball of rock and ice boforc the atmuspunete projerd wats started. Putting up new louildings on it wasn't casy.

Hoke worst of it was that there was no telling when we mould get latas of our own. Wie had come out there on the promise of lree land, expecting to farm. 'The land was there, millions of acres, but it was juss bare, dead rock. The rock had to be crushed. loot by loot, and morked into living soil, using cultures and soil concentrates Erom Earth. But that takes power ma-chinery-rock crishers and soil chewers -and the colony tidn't have enough macluinery. It mighs be iwo to tour Earth vears until it came our turn to crush our land.

We had been cheated.
There was an awful runupus about it, with the inmagtants getting nuet and the colonaids getring sore laack at them amd mitas mecting and prolests and proposals ind connter-proposals. FinalIy the captain of the Mayflower had tar agree to lake somte of us back to Earth, on anthotity of the immindation representative at ledal. The rest swalInwed their disappointment and stayed.

It mate a family crisis for us-6o back. or stay?

George and Molly and I held a powwow in Peggy's roon in the hospital. The plain fact was that Peggy had not adjusted in Ganymerle's low air pressure. Worse than just nose bleeds -she would faint and could not eat. until the doctors put her in a seajed romu. Darl managed to get us a
cramped little aparment of our own by taking an engintering job with the colnny govermment-government entployecs got government quarters-but that still didn't bring us all together at Peggy had to staty in the hospital. Whorse still, it meant he wouldn't be free to prove a farm even when it came our turn for the machinery.

ICAME TO THE TAMIIV conference [eeling grim and ready to go back ou Earth. In aldition to everything else that uas wrong I hat just had a run in with a couple of colamial days -some of them alehightal in hazintr $u$ s rewwomers. [ lele that [ would give my riglu am for an sighe of Sam Tiemo Borougly spritssling over the hills, short bations of tar short riblions.

Do you know what clanged my mind? That pressurized rnom of leggy's. I had gotucn used to low pres sure and straight oxygen. I couldr' breathe: it felt like swimnuitur in watm soup.

We discussed it bark and forth. me not commitiong myself. Fimally Did said, "There"s wo help for it, Molly. We've gol in go bark." Hc turned to me and said. "That clocsn't apply to you, lill. If you want to stay,

Fll artange it."
I said [ guessed I would stay.
Molly saich, "No, George."
Dad saicl. "Dear, it's got to be. Peggy isn't getting well: we've got to take her hack.

Molly squared her shoulders. "I know Peggy has to go back. But that doesn't meall we all have to go back. 1-"
"No. Molly!" Dad interrupted. "I didn't mary you to split up. You-'
"Nor did I! IPeggy has to go; she can go with the Hamiftons and my sister Phoebe will meet her at the other end." She reached out and took Dad's hancl. "If women tumad back at the first trouble, there would be no pioncers."

Deger had been followimy the talk with big eves, like a little lemur. Now she let out a wail. "I don't want to live with Aunt Fhnebel I tuon't go back." She turned to me. "I'm a pionecr, too. Tell them so. Billy!'

T then't know what got into me. The brat hatl locen nothing luut a nuisance. Rut I tound myself patting her hand and saying, "Drm' worry, kid. If you have to go hack. I'll ger with you."
Dad sinid sharply. "Bill didn'r stop
to Lhink, Mahy. He diftn't mean it.* Peggy turtued to me again. "You did so incat it-didn't you, Billy But it doesn't matter; l'm going to stat and be a pionecr."

I swallowed and told her that I had meant it.

Dad looked at Molly. She shrusgred and said, "The children seem to have taken matters in their own hands.

Dad said doubttully, "I suppose I could seal nill one room in our apartment.'
Feggy squealed. "You mean 1 could come horne?

Molly said, "That doesn't solve anything. That would just tic you down to your job-purmanemty."

What can't he cureal must be ent dured.'
"But. George!"
I stood up. "George. Molly."
"EhP"
"ITr" pretty near as tall as you are, Genrge. ['in strong and handy."
"What are you driving at, Sonr"
"You keep your job for now and take care of Molly and the kid. I'll mak: us a farm.'

To be comtimued
in eors' yifer for Octotier

## Foothall is Tacking

(Condtuded irom page 21)
an adeyuate head guard. Practically all serious iujuries stem from the lack of sublicient protection of the head. I have a rule ithat seems rather crucl at times which I altays enforre: Each playcr wears his head gear from the moment he arrives on the field until practice is over. When a coach is lect aring or time is out, we allow the players to remove their head gears. but they must have them in their lands. The salety value of this rule is incsti. mable.
We do mot believe that tackling should ever be practiced [ull speed. Many prospective young foutball players have had their confidence shaken lay full speed tackling rloills berore they ever had a chance to develop the proper technitus.
We have our plitycrs count off by twos. and lave the ones face the twos about five yands apary. First, we have the ones tackling the twos, who simulate ball carricrs. The ball carrier does not try to cindge or tilake the tackler miss him. He jugs slowly toward the tackler and allows himself to be rackled. Later on we pur a little more "rip" into this drill but never do we have it full speed.

## Stance and Approach

The proper stance is thes tumyth and demonstrated by the coach. The and demonstrated by the coach. The
fect are well spread aluat the width of your shoulders. The weight is well forward on your toes. The knees are sleghty bent so ats to throw the budy ity a crouched yet comfortahie. running position. The body ahove the wisast is slightly forward and the head is up.
The approach to the ball carrier is made from this position with short digging steps. Try to kecp yourself in perfect balance and under contml. Kecp your eyes fixcd on the waist of the ball carrier. Never watch his eyes hecause a smart runner will fake you completely out of position. Also never watch his knecs or fect as they are moving rapidly and present a very difficult target. We feel that the hips and waist are the most stable parts of a funner's body and by fixing the eyes on this point you can maintain the proper balance which is so necessary in executing a tackle. The head is always
up. I cannot emphasize this particulir point too much. Practically all uF the injuries occurring in tacklitg can be laid to the fatet that the tackler had his Fead down. In this way he may get a hard blow on his head from the rumnet's knees or fect or he may suffer a neck injury. Each time a player of minc makes a tackle, I shout, "Head up." Aside from the possilale physical risk. it is very poor form. A Lootball player cannot hoper to become a good tackler until he learns to keep his eyes epen and his head up.

## High and Safe

When the would be tackler is about a yard from the ball carrier. he should make is ruick dip of his knees and coil his borty for the shock of the contact. He should aim his shoulder (either shoulder) at what I descrite as the soft part of the under belly of the ball carrier. This is the easiest and safest point to contact. In the old days they used what they called "shoe string tuckling." "They attempted to hit the rummer above the shoe tops and trip him. Or course, when they missed, athd they did miss often, there were a lot of howdy noses and lacerated faces as they plowed the gruund with their noses, or caught cleats from the rumner's shoes in their fare. For veats a frostball player was considered "yelFontball player was considered "yelewery moarh in mondran fowtball feels What tackling should be high and safe.

As the player drives lis shoulder into the waist of the ball carrier he slips fiss luead to the opposite side and atternops to pooket the rumner as close as possible to the base of the geck. At the moment of contact. he uncoils and drives up and through the ball carrier with his feet digging like pistons. The arms instantaneously encircle the runucr's legs and are lacked by grasping the other hand or wrist at a position back of his knees. Pressure is exerted at this point by squecring the arms as tight as possible and lifting him completely of the ground. The hard digging of the legs should never cease until he has been deposited Hat on his back. Never let up in your efforts until the whisule blows, Many games have been iost by a tackler's assuming that he had stopped the ball cartier and
then baving him break lonse for a long rurn and at tomushown.

There are varied mothods of teaching tacklity and many different types of tackling. Some coaches use a tackling dummy to pratice on, but I reel that this does not give a player the true feel. We have each of our players take threc tackles with the right shoulder and three with the left shoulder using the method that I describe each day. We feel that with this one fundamental drill and form to work on they will he further adwanced when the time comes for a full speed scrinumage ar the operning game than they would have been by practieing several difterent methods.

Often in elose line play it is impossible for a player to make a clean form tackle as I have descrihed, because he is partiadly blocked. He should bo taught in a situation like this to grasp the ball carrier with cither hand on his jersey, pants or ar place be can possibly get hold of him and try to drag him down.
In going down under punts or in making other open field tackles, the player should be more cautious. Makc the runner "show" first. unless yout can hit him just as he catches the ball. slow down about three yards from him. get set with your legs wide apart ans] Leet moving and let him beemuc the aggressor. Let hith make a few extra yards in a situation like this,

## Good Tucklers Arr Made

Remember this: You do not have to have a lot ol ability to become a prood tackler. Some players are born runners. hut to become a grood tackler, all you need is to practice liard and to have the desire.

With the advent of the two platoon ssatem in football with one team for the offense and another team for the defense, any boy can lecome a valuable member of a fonchall squad if lie can tackle.

Eleven good tarklers are seldom defeated, and if they ever are, they hole? the respect and admiration of their opponents. There is something good for one's character in making himself a fine tackler.

Froothall is tackling.
The End

## Death Valley Adventure

(Continued from page 20)

Inferno, in a state of suspended amimations.
Hut now the niglts were still rool and the days mild and warm. The Solouts made camp at Death Valloy Momument heatquarters, in a chuster ot old wooden buildings that stond scoured and scarred by the sun and the blasts al satad which swoep every once in a while across the valley flowr.

## Our Camp in the Desert

 Jimm Moss, Scout executive of the Boulder Conncil, was there with his fanmony "chuck wagon"-the big trailer kitchen which I had last seen it year belore when die Council stageal its first Mquarado at Lake Mcat. Ted Werner, amping and antivities elaiman For the Las Vegath, Nevada, ristrict, had lett his automobile business to lend for itself while he worked himsell inta a lather to keep the grub moving out of the "chuck wagon" and atross the scrying counters.Camp was a husy flace mornings and eveninge But helween times it looked altroil abambened ath the seouts lamed out in a sort at mass ckacuathan to take in the sights which have mate Deatil Valley whe of the princ sorrist mectas of the West and to probe its endelcss lore. For there is a story behind almost everything the souts saw in the valley: Bad Water, the lawest spot in the Western Ifemishere. The ghowt towns of Rhyobite, Ryam, Skidoo atcl pamanint City. The Lumbled horas mills. and the paths once promdeal by the famous twentymule vams Stovepipe Wells and the Sand Duncs. Aud Sotey": Castle, the dantantic syountotu denert ecilifice of Death Valley Scotty, who is the region's most lanous living legend.

## Bad Water is Goorl for You

The scouts swatroed southward along the valley in Bad Mater, 280 tect below sea level. Sime of them dambered up the nearby clitif to the "Sea Leve!" marker monnted higlı on its pracipitous lace. (It's somediang ta be able to say that you welas af, to seal Evell) line others pathered whear the park muturalist, L. Fhod Kellet. tell the story ol how baci Water got its name from a man who made a mistake.
He was a maprabice, and be lemind the place anaty yats arro-a small pool ol water standing in a depression of the sald thats. The sath there is 1, son lett deep. bat the water, Ied by an underground river, runs to a rlepth of only a lew inches. It me maprabker asted it, mate a wry lace and reparted (4) his lautan in Washingon that it was badl water.
Put it wash't bad al all. Actual ecsts revealed thot it's really very good water. It cemtains epsome sales bu iust the right proportion, and keller reaommended, whth an impish grim, that every Scout bhomk trink a halleglass of it. Recommendation rejectet.

There's a story too. bethind the ghost town of Rhymite-screral storim, really, and, as whith almos everyahing else in Death Valley. it', Iard to tell where fart leaves off and liction bugins.
Bui it seems to be precty well estid). lished face that Rhyolite wats born bea ause an Indian called fommie Stagshonce disconered gold there and then sold his rights to a man named Rols Montgomery lar iwa dollars and :a iair of new averalls. The mine vielded up aboet $\$ 5000,0000$ worth of treasure and Rhyolite burst into life and became one of the wildest and richest mining towns in the resgion. It had a ratilouad and 10,0 on people. It Ifour-
ished for five years, but when it died, it rlied quickly.
The scouts lound it a typical Weatern ghenst town. They prowled gingerly throngh its dusty, ramshackle rains, its lamous Botale llouse, with walls made of bootes lad horizontally in adobe clay, its old railroad depot. They met Rhyolites one permaneme resident. Jlis name is Norman West morcland, and the describes hinsell as Rhyolite's "larkeep. cook and chambermaid" and adds that "when there isn't atry wincl. I blow ta keep the Hag flying.

Then some of the Death Villes trekkers swung ower in the direction al Skidow and Panamint City, on the wostern stope of the valley's mammoth bown They were once ats ririn and woolly as Rhyolite, and they died just as athrupaly. And the ghoses that fook thens mer were the first and see and cousins of the ghosts that terek oper Rhyolite

## Ghostly Cousing Took Over

Skidon, as the somes learned, got it mane drom a bit ol blang that was Eat shionable in that parly period. Ile tumbl didn': even have af name, in tata, until faite awhile alter it wate tstilb. lished. That bothered the townisloth ditule Thetr a leading citizern annommed that he was going to instanl a piperate to bring water in hom ant of twenty-tired miles away. "I wen-ty-three skiduo!" cane the inevitahle wisecrack foom soncone in the immediate vicinity: atul Sk idoo it was bor ever atter.
Warding eleeprer into the ahose town lextendry of Doath Valley, the Scouts dixowered that panamint Cisy obs carnod its thame foom a popaliar expression of the line and focale. k 'rospecturs heading up into the momeatis trere tron on recelive a checry sendrat Hrons their litiends. "kilu an lof ol it!" soneme would sing out. Or- "Pan a

I hes Panamint City, atown se wild and laterss that even Wells Fargo, hat hardy operator al stagecoalios through the badtands. Ielused wo hant sibert lathion aut ol it. is the tale was told to the Souts. sontornc finatly combined a solution to the problem. He had se
 Isalls, big enough ind hacary enough so that they could be shipped out in mnntancled wayms withont lear tha ansume womkd iry to hijack them.
Ryan is a ghost totil. two, but mot as Fhostly as the wthers. the some peretived. Crouching on a mountain shetl up aloove Death Valley to the cast. Ryan was obsec at tenter of lmotix
operations. And a very important plate it was, sillece borex had berome rla white gold of Dead, Vialley. It was dug Wrin the mines in huge quantitics atid whecled wagons palled loy blyitgn al twenty males.
Ryan died when the boras plisy bhiltet elsewhere, Lut the Pacific Carst Borax Conprany keeps the town in fotod statce ai repair tor the berefic of tourists. Many of the Scomas satw if on thereir way up the matel for Dante Viewr. This is the mowt accessifje Death Volkey's high places ant :atomudet the trekkers ancll the same spetacu lat virew that they wenld have had i somesme oblyingly had moved ir the Empire State Building. complete with eleyator service.

Stovepipe Wells, locaned over ont the west side of the valley, near the fand Bunes, isn't onte of the ghost tombs. bun it also lats a story, as the Scmats


## MINNEAPOLIS KNITTING WORKS - Minneogpolis II, Minaesora



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 molds. Nighty educatlanal and so much fun - ta casi animals, scenic plaquear cowboys, clownsl Send only 15 cents for tamplate, 24-page talared satalog.
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ILINOIS

## RideaBike,

 it's Fun!tound out. Proppecturb tudging betwoer Rhyolite and Skidoo would patse at a hall-way point along the trail io drink tron an underground spring. But they had to diy eighteen inches below the surface to get the water, and beween visits the hole would be covered up with shilting sand. Some unnamed genius finally hit upen an answer. He pianted a piece
of stoveripe to matk the lowation of the water holc. Presto! Stovepipe Wells.

But the Scouts foumd the peaple of beath Valley even more inatersting thaty its platecs. For the history of that babled atol is so recent that there atill reside there some of those who helped to make its listory. or saw it beitig made.

## Johmey is 106 Fr Yare Mif

Thete's Johmait Shoshome, the Indiant what sold a $\$ 5,060,0100$ mine [or two dollars and a pair of oworalls. 'l"he Soouts leamed that he's still alive amal watches time gu by at the tioy Iredian village south of Furnace C'reek Ranch. in the heart of the valley. folinate is a very, very whlt man. Te thinks he's abbut lith ne $10 \bar{y}$ years old, and id that
is true. he was there in the walley When the '49-ers stumbled in and strus. glod rut again.

And there's Lonie Blutis, an call bearded prospector of seventw wher with a lace that is browned and seamed by many summocri of fory heat and many winters of sibatjp descrt cold. I visited Louic with Iwa scouls. Kenny Searles and Jimury Camerin-Stuart of Itrop fis in Las Vegas, and he told ns lum lie quit the sea noarly trorty-live years ago and drifted in to Death Valley to humt for gold and sidver.
Fics been here ever since, and we doulsted it be's dound very tiluth pold athel silver. But lie witacheal the minang towns spring up, fourish lorielly and then sjputles out like a spean Rman then sid
cantle.
What with his thrce burros and of little prospectiog on the sithe, [.ouie manages to live. In the wintery he poses with his furros for sameta-toting tourists at two bits a pit ture. 'I Indo. conce smmer, he blow his catrongen On gronpowder and supplie's and shut. fles jato the Paonmint Nemintaine fo mine for silver and lead.
Lnuis told Kenty, Jimmy and me that he doern't go to town wery oflems
Last time he was in I as Verah wal
 because lie robidn't find a plate ta park lis lumros.
1He loves thase burros-Shorty. Mike and Johmo. Shorty is the oldest-: тipe nineteen-and Louie suys "te"s liable to mutlast me." The vencrable propector storted when the ticont, asked him about the popalar notion that thireas are stabionen.
"They're not." he sald firmuly. ' 'her're just smart."
Whicn Loute makes cathp, he turns his linrros lionse in the desert. 1 hes mander an lar as a mile and a hall away, but when they see the smoke of the campfire. laack they conte far wheir dimer. Try doing that with a howe, ways Loule sconfalit.

How Smart Can a Rurro lne: The Scouts learned thist buress tin wild in and argund Doath Valley and they mudiply last. Since it is their irritating hailuit on pollute springs and movage the graxing greands of moumtain sheep, the lark Service orcasionally sanctions al Gutra hunt to thin out the population. This hats resulted in a favorite Death Valley fable-ar nuybe it issi't a fable at all, but a troze story-about the burres with a bell.
This particular burro, a fugitive
from sonae prospector, had a bell wired atound his meck, and, of comse. the bell would jangle as he murad. That would have made bim a sisting eluck target for a burta humter. cxape that. whenever a hant was on. the burro would stand stockstill. His comipanions would bring him lindter aral heed mave his heat anty enough tis reach down [or a mouthlul of geabs, withour the slightest betraying tinkle.
Well. anyway, that's the story the Scouts hoard around Death Vallew, amer Death Valley folk say it maly graes to show how a stiars burco is.
But of lay greater renown than the burms and louje Blum and Johnnic Shoshone all put togetler in thic matm they eall Death Valley Somty. Iins real natme is Walter Scoti, ausd toes gemewhere in the neighborbond of eighty with a will show al smowt hatir and a Face that's white and bent luecoraxe hos slecps in the deytime, ont lixan under pike herce Death Valloy sum.
Thirty-ndd years aga, in strange and bordly isolation ap on the northern slope of Death Valley. the incredibic place knowa as Somty Caste wats muil. And that's precisely what it isa Spauish-sbyle casile replete swith draw. Iridge, tomjoan, turrct and rugs and furnishings so costs that the Scouts had to wear felt slippers ovet thar shows as they wemt through.

## Death Valley Senty

To the hundreds of Scouts descendiny ell masse upon the cassle it scemed to lack anly a king. And thro. dur a rument. it seemed to have onc. There shidetety, on the ornate ballonoy overInoking the courtyard, appeated Soluy luimsell. peering down ap on the horde an Scouts for all the world tike a monarch greeting his subjects. Fhal his first rembark cidto't sound regal. "Where dly'all conue fromet asked Scosty.

Then he came toy're ind the courtyard to be engeulled in a tisle wi khaki. Ile blinked into lat a licking cameras oi half a handred Scout shater bugs while lae chatted about the tarly days in Death Valley, when he wes anwind er, or No. 2 man, on a wotity-mule teath and a prospector lor gold.
One day Sooty found a lantasticatly rich polde mine artel that this iv luame him a legend int the West. Once he
chartered a Santa fe train lor a runs Irom Los Angeles to Chicago Uat broke the world's recortl. Anel the Scruats wore told how he scatered gold coins on the strects of Sam Fralleisch and Sam Bernatino and llipped out filty dollar bills lor one of his famous red neckties, telting startled clerks to "kecp the chamge."

## What We Found

But the skeptics say Scotey alinh't lave a gald mine at all wnless you could cill Albert folutsom his gold mine. Johnom was a weathy Chicago linancier twho wok a fancy to Senty and to Drath Valley. The skeptics clatm it was Johmon's moncy daat erectest the Gastle and fimanced Scotty's labulous exploins. They say Johnson did it just tor tied Jom ol watching Sooty luild himsell into a legend.
Jominsin, his wile, and Sonty te sirled in the castle until the firmancicr's derth two years rgo. Scotes lives now al ar ranch a lew miles andy. ath lais prospecting days are far luehitid hint Bat tre likes th talk abral the gold ol Death Valles. huce sumelhime he sald abuar it came back to me ore nigh as we had our big connplite:

The fire was built upt against at short blatif. The datming lifanes threw grotesyat and mansatrods shadow upon the bluff as whough it were a scresen for some luge atertoptionn machine gntac herserk. The sky was 5 earpet of stars, and in the starlight we could see the shadowy bulge of the tromo tains close by us to the cast. Lep Irma the campfire and out across the silent reaches of Death ratley floated the suted words of the Scout vesper mans. "Sofily lalls the light of day, as our campfire lades away
And it way then I remembered witat Scoter had said abrume the gold of Deah Valley. Fle'd said there's still gold a-plenty in the valley. lout it's alt meneath the surface atrd "it wumat take a million to get a million out: Rut Scoty was wrong. We found the golden treasure that might aromad the campfire. hard alongside the starlit monntains, and along the trails whith the e49-ers trod. We cound it in the wandrous places and the endess lore ol Deatlo Valley. and in the pleasures of comeralship in the out-of-therrs. Ties End

## PRIZE WINNERS

WEITTLIN: JIV NECKERCHIEF SLIDE CONTEST
GRAND PRIZE. \$LSO.OO watch-Bruce Lame, Porflaml. Maine REGIONAL PRIZES, $\$ 65.00$ watches to each

Region I
Dave M. Richarde
Concord, New Hampinire
Region II
Chester Page, Jr. Princetol, New Jersey

Region III
Lewis Garluer. Jr.
Warren, Penneylvania

## Region ${ }^{W}$

Morrib Speeg
Cridersville, Ohio
Region $V$
Panl Lombard Mohile, Alahama

Region $F I$
David Woodard
Emithfield. North Carolina

Region VII (tie) Jimmy Batrer
West Allis, Wisconsin Fred E. Dabney, Jr. Harrisburg, Ilïnein

## Region VIII

Donalu Jayne
Auduhon. Iowa
Region IX
Joliut Wheeler
Ausilin, Texhs
Region X
Keith Hansen
Ited Wing, Minnesota Region XI
William A. Kolling
Corvallis, Oregon Region XII
Tommy Gustafunn Bakersfield, California


When yol start a com collec tion, you dan't need old coins ts anake it iuteresting. The mort mexpensive collection you can stirt is onte mate up of coins now in cirtuatiun. toull find that seremat ent rent coins are worth many times their tate valuc. They are ulao the easieto or yuu tr oldtin.
Hut on the other hand, if you like old coint and get lun our of taak king down those hard torget ones, den't tet avore curn your mind. You'll frme that vour cullection will be more vallnable if sou keep to one subject such as Indian head pennics or Bultah nickecls. Liter, you may wamt to branch out as you become fumiliar with the Feld and earn your title of numinnatiot.

If umansy boesn't have any mill moing with her stuff ill the attic. you can baty mane at any of the coin stores lo catced in all latge rithes. Cibin deaters will furnivl ynu with up-Lo-dite prices oir wou can buy a coin catalogue with illutratimns and prices of coins wu
waut tw buy or sall
It was nut until the year 1792 that 1 trint was estabtistied to cuin numey (b) the entire United States. This min. was located in Philadelphia, On crude. haud pressen they produces! cepper cents anel half cents in 1799, silver in 1791, and gold in 1795. It is nut unus nat to find on the surtace of early coins tracks ant lumps.

In addition to the mint at Phila delphia the government alsu operates branch mines at Denver and Sant Fran cisco. Coins from these mints are nat ally mure scarce than those ininted at Philadelphia because suailer ftuantidien are minted. Occasionally, you may get clange coins marked Carson City or New Orleans. Branch mints engrave the initial of the city in which they are locatex til кpecify where they came Irom. "D" represents Donver. Colo ratlo: "S" San lirancisco. Calitornia: Philadelluhia has no mint mark the minly exception of Philadelpliaa appears III the five cent piece which bears a "|" above the Capitol donse to show
change in the alluy of the metal): O" New Orleabs. Luvisiana: and CC" Carson Ciy, Nevada, the latter two of which are closerl. Guld coins were minted at Dnihlonegn, Georgia, and Chanlote, Nonth Carolina as well is ather mints.

## Condition of Your Cains

A collectior griades his roins of various conditions the betwer the conditiut ul four cuin the bigher its price will lee tom hee market, Here are the Cassilications:
coin in f(O)OD condition is abbrewiatel fo or e,il). Is is worn, hut every important part of the lettering and design is still phain. Coins in poorer candition are aeldam worth more than the amount shoth on the bace. A coin in IERY (i()OHI) condition is abbreviated re:. It will have little wear and teat arke the leturs athe design will be clear. HINE coins are wurn only an their high parts, ant hate tharp dewigus. They are aldureviated F. VERY FTNE demites th hatlwnac piece with very sharp leaturcos. It in alisreviated [F. UNCIRC'C'ATED means the coin a like new and has no watches or xighs of wear or mber imperfections-
just as if it came from the mint price It is abbreviated UNC. PReor)f (wins are special coins with a mirtor-like surface no other condition (an equal. These coins are nut intended! lar circulation. Eqperially struck and poobished by hatsol, they are stritaly ent lectors' items.
it is leest not ten clean sume afins, but modern silver coike ran be drancel with a paste of baking shla :and water. Ciently rub your coin intes the ormo prouns atak dry it carrefallx. Dhon't thy this methand om copper ar laronze coins though. The high parts will be shing and the low parts will be dark and unnatural. You will lower the markes value. Dlaced in cellophane envelopres and sealed wour collection will to salle from dimenlorations. Give the lese of care to vour coiths.

Begimnet rallecters motes: Vwass halet a cevin liy the celpe in preverie wear, even if it isn't a rame one. The abverse side of a coin is the hean site. The weterses side in the bink ow sails side. Intleyed ectges refer tol those carify coins that carried on their exlges sari-
 date has been stamped over woshers on the same coin.


1. La世 35 ar $1,2 \mathrm{~g}$ plywoad. Top anal hase macamure

 juints-rusuber vulline unifurilu. urlde mirenalh.






## MAKE THIS CONTACT PRINTER

By Bub) Jones

 hinge on lark, rugulate hund tring handle- dawn till lat on grip in swith wod mo lamp glasa, rugulater rod to contamt will light an cuatacting. hamlia ant whith tugether


10. Paint inside of box mamel white loe plate

 moriged edige to holel glase. Hemour klase to change halb. Nail atrips flush with glase to onppur runner lirackets and thargin strips. One 8 a 10 shere will print (8) 21/i $\times 34$ 's or (12) $21 / 8 \times 21 /{ }^{\prime}{ }^{2}$ Cut nearatives in stripn of (2) ur (4) together for ease of loandling and filing.


1. "Hitis view is of the frant alt alse pancl with the twa variable condensers armil the valume enstrol insialled. Firil drill d/a" shaft hults.

2. This viem is bf the back of the panel. Nam solike a jumper betwern the two condenser statur luks After thal attant a $\mathbf{h t}^{\prime \prime}$ wire lead.

3. Hrange crate or sistilar mund can be used fer the Lakp. Atter ruunding the miges, shellac. Inainll mlips and rondenser ; wire partr aa whown.

## Short Wave Receiver

BY FRED RODEN AND GLENN A. WAGNER


J3. The firat lime we frind this yet at Albany, we pinked up Lagdon, England. Receptian was clent and sarong. Ith ramge is worlil-wide.

12. This is the two-in-ane short wate receiver enmpletc. It is al sturdy, rampnet. nand inexpenwive sent, yet is comparatively eary to ennstruet.


Here is the shorl wave rceciwer wiring diggram, which whold be followed exactly to abiain minaimum effieney from this thort wave receiver. Alihongh the plan in quite aimple, any fond radia repaiman or olectrician cat give you walagble assistance in assembline the materiala.

5. Now mount the audio Iransformer on the: base, about [3, " frous the front pancls; then soldor yed (or if) lead to volnime mandral line.

IF YOL: ARE interested in listening to Lorcign inoalcasts, itmateur broadeast bands, airways radio, and ships at sea, then here is the radio tor you to build. This short wave receiver is actually a two tube set which uses a 6 wolt 6 SN 7 tube; that is, two tubes in one glass envelope. it is makle from standard and casy to get parts. Power is supplied by a 45 volt " $B$ " battery and a 6.\% volt, 1 ampere eranstorner which plugs into a 110 volt A.C. light socket. The coil is liome made. For best reception, use a pair of gowo ohm earphones. Usc ass antenna about som feet long and a ground wire to a cold water pipc. Be sure all connctions are tight and soldered where possible.

## LIST OF MATERIALS

1-2 megohm grid leak
$1-.00025$ mifl. grid condenser
$1-5$ to 1 audio ranslormer
$1-2-30$ monfil. ankellatil trimmel condenser
1-100 mumd. mirlget variable condenser
$1-3$ montel. midget a ariable con denser
1-100,000 olitu volume control
-(Octal tube socker
1-6 $\mathrm{SN}_{7}$ tube
$11-5 / 1 n^{\prime \prime} \times 8 / 4^{\prime \prime}$ (medium sirc) Faitmstork clips

- \#2y single cotton chamel ros ered magnet wire
-\# 18 or mo hook-up wire
- -5 wolt " D " Ditutery
$1-6.3$ volt 1 :nnpere filament transformer
- Alligator clip

1 -Set earphoncs (gowo ahm)
$1-$ Patrel $1 / 44^{\prime \prime} \times 51 / 4^{\prime \prime} \times 61 / 2^{\prime \prime}$ aluminum
1 -Base $8 / 4^{\prime \prime} \times 51 / 2^{\prime \prime} \times 61 / 2^{\prime \prime}$ wonal
2-2" calibrated dials
3-Dial knobs

11. Wiring arrangement for the power supply. Follow instructions; allarh card and pluaf to Follow instimetions; allarh curd and plus to

10. Fasten the coil to the base piece wilh model pirplane nement. Solder the leads an inclicated in ihe previons ghoto. Note direptions carefully.

6. This view ia looking al the bottom of the tube socket. Solder the short leads to the variouz luge as shown before monnting somet.

7. Wind the coils around a cardbourd flashlight cell cover. First wind the lickler coil, sall follow with the grid soil. Inocla bolen for leadme

B. Salder black (or F) Iransforimer lead to Ne. 3 lug green (or ©) lean Io the No. 1 lug
Note variahle condcharer lead is to lag No, 3 .

9. Manmi the tulhe sacket on two tubular puils 3/4" hiwh. Atach tube pin No. 5 to the phone dip: No. 7 Io Felp, and No. 8 to the B- elip.


Randalph Scott and Gabhy Hayes ．


Ilere＇s popnlar Glimn Find snow


In Sadilla Tromp Jowl MeCrae adopts font logy．and life gets interesting
they have long been trying to do．
THE CARIBOO TAAIL（201h C．Fax） F Tile Ciarabou traill leads thramy ifac －mowntains of Bricist Columbat that were tha sreme of it golel rubl in 180．This is a yart of callhemas Ramp dalphis Scott＇s struggle to overconne the Holel 所eded of Victor fory．It is as packed with action ins at bomamza vein with wre．Catele stampeyles，gold strikes． Indian fights，gun duels are well blended in Cinecolor．Not the least interesting clenumt is the rough his－ urorical backytound of a wild hatid and a periond little known do most Ameri－ Cans．For added measure licere is Cablby Hayes and lis luenad．Caday＇s beard is ar gemuine，twemty－yarold one and has gone througl duzens of westerns．

## THE WHITE TOWER

Phrifting climibing incidents and mafnificent scenery in color are the owcrlity for an adventure film and a lesson in compration．Six peaple from six diferem nations and with six dif－ ferent reanoms want to climily a sym－ bolic fanmatain in Switzerlard．In spine－tinghing shonts yous see them be－ laying and rapelling aver clift fraces， squirming up rock＂climmeys，＂hand traversing over tioy ledpes，pitching their little mountain tents in a ficree alpine blizard．One hy one the party falls apart until there are le［t only a young American（Glenn lord）and an arrogant．umregenerated Nazk officer struggling toward the summit，

## SADDLE TRAMP

（Univ．） （visuck Connors（Iod Mocirch）rides ligying of his ofd pit Slim．When the brainless horse kills the pal．Chuck finds himself temporarily foster lather to Slimes lour mons．As at that weron＇t enough．Chutk lands in the addelle lee－ tween twa lom－heakiod ranchers aceus itse cath other of whating cattle Alter Clande is kroaked out by the real rus－ ters．＂Iommory，the twelve yenr old som， and the other kids organize a resorue party．The conor photography in Siad－ He Tramas is monalide．Incing produced with a special uew type of lens．And while technicians were producing a terrific rain somm they acciclentally got a photographahle ribilunto something
 A boll players is bellog aseal in THF HERO．They indude men from the Cardinals，Lions，Redskins，and Rams，

IJe totem parle at the left was usted in TIIE GitRIBOO 「RAIL．＇Lhe modntains fou＇ll see in that movie are not real British Columbiat Rockies，hat some United States numbers that Can＇t the told from their nortinern beothers． The Incarion shots were made in the Rocky Mouneains of Colorado．

Irigger，Jr．，and Champ，Jr．w are fol－ lowing in the hooffrints of their fa－ mous fathers，and have made their movie debuts with Roy Rogers and Genc Antry respectively－FF．C．S．

## The K－5 Roundup

（Contimued from page 25）
$K 5$ catte from it．On the opposite side of the herd other cowboys were cuting other brands．Bat there waty no one close（o）Jod when the boss reined up close to him and ashed，＂Sce any of Your that＇s cattic．Jed？＂
＂I＇ve spmeted three cows and a year－ ling steer．As the herel shifts，I keep looking for olhers ．．．I know all of dad＇s catele by sight witheut cren look－ ing at the braml．＂
＂You do？＂Roberes gave hima a quick look．＂Good starl hawated makirys a cownan．Yet you want to Jeary to tem thaurlis too．Whose is that red cow riyfit over there？
led＇s gaze followed Roberses point－ ing annu．＂She＇s a E X Bar and belongs to Andy Walker．＂
Robocts modded and pointed his rlever cow pony back into the herd． Jed glanced again at the B X Bar cow and noted that she was eltosely trailed by an unbranted heifer cath．He was astonished when Rollerts singled out that moratuled call，paired it with a $k$ st com and ther cat the wwo of them out of the laced
Jed spurred his pory in front ot the cow and calf，heading them off．
＂What＇s the big ideari＂Roberts de－ manded．
＂That call belongs to that $\mathrm{B} \times$ Bar
＂Suppose I say it beclongs to the K 5 cow $l$ cut nut will itit
Jed was red－laced．Cumtradicting the rountup lanss was－well．if was sornc． thing a tellow just didn＇t do．He stam－ mered，＂Bill－but 1 know it docs be－ long to the B X Rar cow．＂
＂So？Well，it＂s old taough to be weaned and K 5 d lork grood on its rilss， Here，＂reaching to lis overalls pocket and bringing out a five dollar bill． ＂Take this and keep your mouth shut．＂ Jed Hinched．Mis stomach tightemed ap and every nerve in hiinn seemed to crawl．＂No－You－You can＇t mear－＂ It was unable to go on．

## R

OBFRTs＊Eyes were squinted，and the Curvers of his moubh had drawn down as he said slowly，＂You told me you wanted a new saddle mighty much． Mighty much．＂Again he held out the greenbick
Anul Iod hesitated．On any roundup cows and calves did get sepirated inth never again got tugether．Surc，Roberts conld slip that calf into the E 占 cut． Get away with it too．Nolbody flee wiser －except Jod and Roberts himself．So， when Jed did want a sarifle to much why not let it got He reached for the bill－and jerked his hand back as if it had been burncd．
＂No！＇ 1 don＇t want a saddle that much！＂led turned hi，horse and spurect it to get away from the boss of the romatup．
Then reining in，he noted with bleak eyes that Rnberts curneal the call bark inte the main herd．where he saw it find ins mother，the red 13 X 13 ， At this bad time for Jed，whon he fell sick and disillusioned．who should come riding up to him bur the cowboy whon considered himself so much led＇s superior，smuy，taunting，bully like Bey simmons．
＂Well，well，if it ain＇t my friend the woll buster！Gosh．l＇d lake to work for tho－bir nester oultit．Why didn＇t your old man get you a string of horses to rite，if he was going tn send such a green punk on the roundup？lake that plug you＇re forkin＇now－Ain＇t he a dinger？＂
Athough Jed＇s eyes Hashed，he an－ swered no word．Berl Simmons worked for the K 5，had a first class outfit and
was menuted on a splendid K 5 horse． Jed couldn＇t hulp lseing a litete bit en－ vious，and he rcsented the fellow＇s ruls bing it in．
＂Lost your woice？＂Bert jibed．＂From hollering at the dogies．I＇spert．＇Reut． all a gink like you can do is holler． When is comes to cow work－
Jed did not hear the rest．A big hlack stecer he had noticed several times carlicr tolday，suddenly troke ruut of the lierd like a thunderbale and bee－ lingel fur the hills，Even ats Jet spurred his mourn in ahead of the steer．lie realized that it was what is called ant ＂old ranyban，＂A big tangy，pic－ turesque brute of an animal，coal black．one born long，sharp－pointed， upeurving，the other luroken at its sip and bent downward．

TCue plain brand on it was B X Bar， and at the rnoment Jed pur his horse in front of the wild old steer，he heard Andy Walker shout，＂Stop that ounlaw amel loring him back and there＇s ten dollars in it for you，cowboy：＂
Jed waved his hat and yelled at the steer．But it only lowered its head and， cyes famming reddishly with anger， charged his horse．By the narrowest of margins．Jed jerked bis mount aside in time and the wild steer lunged on．In the wink af an eye．Jed jerkad louse his rope，and tearing along after the bro－ vime，he built a loop in the end of it， tied the other end last to his saddle horn．
Even had there been no reward，Jed would have tried to rope the steer． Real cowboys simply didn＇t let cattle get away Irom then！＇But now－nnw he liad a triple incentive to prove himself： to show Bere Simmons he was a hand， to bring lack the outhaw，and to ealrn the reward．
Tra bucks addied to the thirty Jet already had would bay a new sadiled

Oopsil He needed it right now． This ald one of this would not loold that big ugly steer if he did rope itt
All in a flash he knew he ought to bark out of this situation．He hadn＇t a chance He was sure to［ail．But the same grit which had prompted Jed to try to ride a brone this morning now prompted him to do his darndest．

## T

 he steer was travelling like a bul－ ect so wat jed＇s moumt．A plug． tance．［etl betht far lorward and cast his rope．and the loop．floating through space like a great Hattened O．dropped neaty down over both the wide－ curving horn and the bent and broken one as well．
Defty．Jed jerked the loop tanu and sct his horse for the shock，planting it Lack on its haunches．As the big steer took the slack out of the rope，it twayped like a taunt fiddle string．Ied＇s horse was jerked forward for ciglit or ten feet betore there came at trighten－ ing．crashing，ripping sound－as the siddle was literally torn apart．
Iocl catapulted into space ancl landed or his head and shoulders against the hard ground．Bounding to inis feet，he saw that the ranyhan，with some parts of Jed＇s wrecked saddile lowncing at the trailing ent of Jed＇s rope，was lumt－ bering ontward．An instant later Jed took note of the arriva！of Bert Simmons．who had halted his mount and was bent double，exploding with laughter．
＂Ho！Second time today Jeddie boy las liat the dust｜
Jed＇s hands balled into hard fists，his dust－rimmed face tightened．＂Walker
said ten dollats to the man when wot that old ranyhan. Don't you want it ${ }^{\prime \prime}$ he demanded.

For a hamared bucks I'd mont ife onto a wild outlaw like that! I know bettecr. But woul-
led limged upward and thew his arms around best's nock. and he tare: the man oum of his saddle, the horse favorting and shying away.

Wtin Biet ypafinke, "Stop it. What. Wou-" ped gave the fellow a
punch it the nose that puc himt down ill the sage, arral lee herval simmeone
 who it was, as be leaped lo thic saddle "m Beat Simmons" horse and spurred it.
ts he unstrapped Bert's ropre. Jed batd the surparised thrill of knowing Jue was astride a grod lwore-a herse such as he had mever ridelen before at horse that was simply hurning up the earth as fed sent if affer the black steer. 'Then, for the second rime Jed Hammond roped that olel outhen?

Aha: 'I bis for'se wals a rope horse knowisg tinat was expected of it. It instimaty increased its speed to dash on past the Jeft sisle of the rumames buvine In the trick of time. Jexl Hirkeel the lonse ropue neer hae steer"s rump, the way he had seen expert ropers ato in conients. alnd as the horse hit the wher end of that rope, the stoer's legs were jerked Irann undtr its hody. For a monlene it wan floating in the air. all dembled up. 1 then it hit the groume so hard it lay srill, whe home suraining auay at the tame rope co hold it down. |esl bounced [rom tla saddle, rati to the fallerm outsaw, sam because he had no pigging string with which to horf tit: it. he gol the tail hogld and held it -lona.

Horsemen came pourding up. Wal. kur of B X liar and Roberts among ahom. A little behind them, on toot. was Bert Simomins.
Roberts eyts were shiming llirough latio clust mask ath he swang off and deftly hogtied the Iallen ranylian. Walker tame up to Jeal. "Ftere's your ten luekss, cowbony. Pretty work!

Aw," starnimeral jecd, "I didn'। corrm the money. Ihis wasn't any more than 1 silnolal have done. Kéep it, Mr. W'alker."

W alker shoved the bill into Jed's tame steet and nerk dhivodd wullim to

Lhe tame ane so's to ge: ham into tha luerd, Bhat why boys"]l attend to thin, you
Bert Simmons catrle up, panting loundy. "The alarned fellow yaskud me" out of mive saddle and tots my Jorse Let me at time. I'll punch-"
"IFolsl your beath. Bret," malipped Roberts, "You're" fircal. Tike your out ht off thisk K horse get your oun private nag, and hike, prorito.
"Wh-why"tा I fired?"
Stean of helping led, you wat onn
 . 11 hinte. That's net all, Bert. The $k=$
 I've hers hoping Jet's turn on youand he surely dial itl Now git and good riddance to youl'
Bort Simmons stamped absay, indis mant. vel silerit and shamelaced. The abher men and walker rode back to the herd, leaving Jed :alone whth the rembedups Ioreman. Roberts put at head on the young fellow's shoulder, forcing Jed's fyen to meet his. and Jed looking into them, satw that they wete kind am? understanding eyes. The foreman same slowly, "Yountl be one of the lomys nown.
"1-T will! Thal's wonderlal. But-* led's quice urailed oit.
"Abi"t the rate." said Ruberts.
A realize now that I had no right to put you in such a ticklish ${ }^{\text {pung. I }}$ shouldo't have done it. Jet. except that 1 knesw how plumb had you wanted: suldile. lon see. I wias tenting you-" Surden alanpmests welled inatu his ayes *Boy, if you'd accepted that greenbark I'd hise been the mise clisalppointed man on this roundup.
"On." gasped Jod, seeing it all mow "Oh. Rabierss, you're just as swall at guy I thought you were.
The mati held our his latul. "Fed. were trating our cut from this rannud up en the K 5 yet this afterneson. and we ll find at satelle at the ratuch for yout to Lise until yan get your new onte. What's mare. these's to reason why you can't work lor K 5 and gather your dad's ratale at the same time. For the duration of this roundup. Hitil you have la gn home with your lather's
 suit you:"

Ted didn't answer. Fle couldn't utter ward. He simply gripped Rolocrts hand hard. Hord.

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## Western Barbecue Round-Up

Clay Potts, Oklahoma's batbecue king, says you can do it in eight stepsand he"il guarantee your success if you. . .ise sure to select good beel-a hall pound for each person. Cut, bonc, then roll the meat into eight or ten pount rhunks. Wrap them in cheesecloth. Hincn in burlap, and tie with heavy twine.
2. The cooking pit should be $81 / 2$ feet deep by $3^{3}$ feet wide. A trench In fect long will hold tom pounds ol meat. If: you expect rain cover the barbecue pit with a tatpaulin. You should also have ready a board covering for the cooking stage.
3. Your fire should lic mate of dry poled or split black-jack oak or hickory. (But any good hard wood will do). You'll need about 18 inches of coals so don't go light on the wood, and make. aure it's thoroughly dry.
4. Sight your fire at least three hours before you want your coals. Since it will take ten hours to cook the beef allow 13, hours before serving. Light the fire from the bottom of the trench and burn it as rapidly as possible until you have hot crals 18 inches deep.
5. Now dip your chunks of meat in water. This will keep the hurdap from burning. Foss them into the pit. then immediately fill the pit over with dirt. Now lay your hoards over the dirt and fill in the cracks with wat samel. And cover shis with a tarp. Ten hours later dig everylhing up and serve it immed:ately.
6. While the theat is cooking make this satuce-it's not too hot but pust right, This recipe is good for 50 pounds ot meat: 4 quarts uf cassup; I quart of Whoreestershire satuce; I pint of prepared mustard: and 1 pint of barbecue satuce. Your menu consists of the meat protato chips, pickles and onions, baked beans, fresh fruit, ice cream, collee or punch.
i. Serve the meat while it's still hot. Set up a long table and serve cafetcria style. Paper plates and woolen forks manipulate each person's two barluccued beef sandwiches, the beans and the rest. Keep the ice cream cold until bitcr.
8. Clean up will be easy if you set up at few lage cans to catch your labor saving paper plates, Now, have at it.
-Ray R. Matoy


Dunk it in water


Now bury and cover il.

## Cat Man

## (Comtinucd from page 81)

Undoubtedly, the man bad been blincled by the glantopur of the steel arena, for he seemed to distike working the creatures.
Sasclar hadn't been out of her ralling den since lier illncss. And had it not been tor the protesting letters Jetr's lather continucd ou send Boss Leland from the hospital. Sascha would long since have been donc away with or donated to sontic locak zoo, lew of which could allord to lood leot the twenty pounds of Iresh meat she required daily. bo Saseha went along with the circus.

W
hen it rfcante apparent that Jetf's Father would not return 10 the show for at least another season and, perhaps, longer, Jeft approached Buss Leland lor permission to start working the cats durimg part of each rehearsal period. But his request was politely refused.
"Sorneday, maybe," Boss Lcland cncouraged, "but you're pretty young. kid. You got a lot to Icarn about tigers before you try working in the siecl archat. Maybe someday, huhe"
But "fomeday" would be too late, ? eff knew. Duif Coltorn was alteady remolding the att ; eliminating some of the stumis which he scemed to comsider particularly hazardous to his own wellare. Duff's solc control over the cats was based on fear. Truc, as Jeff knew. Ecar was a requisite in mantaining the tigers' respect. But he also hrew that an clement of trust was essential hetween man and antimal in order to accomplish a smooth ant inside of the stcel arena.

Soon. Jeff thought soberly, the last Festige of the carefully worked out and once-famens Ralston routine would be gone. Jeff was surprised that Boss Leland. usually a perfectionist, would allow the act to slip the way it had since Duff Colton took it over.

I
T WAS A Warm summer night and 1 the gaily decorated big tup was packed with the eager and excited populace of King City. The cat act had just opened the show, drawing what secmed to Jeff a rather polite round of applatuse. The tractors had pulled the rolling dens out of the tent ints the circus backyard. Inside the tent the roustabouts were hastily dismathing the linked steel arena. Out along the railroad siding the workmen were busily loading the cook tent, the animal tent and the greater portion of the wild animals onto the cars that made up the circus train's first section. As soon as the performance was linished, the Flying Squadron would be all ready to move nut through the night toward the next day's stand.

The tinny blare of the band seeped through the canvas sidewalls, as Jeff helped load the rolling kitchens onto the flatcars. Sudtenly. From hirward along the train came the splintering crash of wood. Stariled showts sounded over the confusion, but were quickly suppressed.

As Jeff broke into a run toward the front of the train he knew that what cver had happened to cause that crash of somul had been serions.

Qompone sped past Jeff. "Better Syo back, kid," he panced. "Tiger's loose!'
Jeff paused a moment; then moved cautiously forward. He was soon near enough to discern some of the work crew hanging to telephone polcs or perched on various high vantage points of safety. He also saw the cage lying at
a steep argle, one end on the ground anul one end still resting on the bed of the llatear. He saw how the wheels had slipped from the ramp running beween the cars. He saw how one batred end of the rage-the end resting on the ground-had burst open at the impact.
"Scram, kid!" a workman cried urgenty from a nearby telephone pole. "Ti's the killer that got away: Saschat"
"Saschal" A chill surged along Jeff's spite. "Where is she:'
"Last J saw her," : voice volunteered from the semixtarkness, "she was hoaded toward that orrhard out there the orher side ol the tracks. Fut you never know what them cats are groin' to do. Site might ve doubled back and -and maybe sfic's urder une of them flacars right now?"
Boss Leland, Duft Colton and seweral athers came turnins up carrying rilles and strung-beamed rlashlights.
"We're roing after her," the circus manager said ๆnickly. "See thar this docsn't leak inter she big tent. Bon't want any riots on our hands."

Jeff quickly recalled costly circus panics that his lather had told him about. "You-you're not koing to shoot Saschia?" be said anixousily,
"Cant take any chances, Jeft," Boss Leland teppied. "You bellows with the rifles spread out in pairs atred stare through the orchard. Il you sce hcr. be sure you make your shots count orhey, Colton, what's the matter with you?"

Jeff saw then how Duff Colton was edging away; saw the pastiness of Trainer's lace in the dim light. -I Id better shay here." he manbark and-wrill, tigers olten come back to familiar places, you know, and-"
"Yeah, yeak, I think you bettot stay," Boss Leland smuped, scowling at him. "And maybe you better find a plate to hide while you're at it

Without at ward Duff Colton walkerl bark towards the lighted tent.

The searching lacams of the fathlights soon disappeared into the or chard. Cautiously, the workmen climbed down, raised the empty eage to its proper position on the Matcat and watchlully resumed their laborJell went back into the big top where the show was rearhing the midpoint. Although word hat quickly pasked among the performers, not it single person in the packed bleachers was even remotely aware that a cat was louse.

Ahale hour passed. A half hour during which jell tousied himself' breaking down and setting up the ring trappings for cach new act. He tried to keep busy enough not to think of what might be happening outside in the dutkness. as men with rilles stalked the tawny Sascha.

Then it canle-a single sharp xeport -like someone breaking a dry stick over his knee. An insoluntary sols shook Jeff. He bit down hard on his lower lip. felt it tremble against his teeth.

All I hope is that they got her with that shot," Dult Colton said hoarsely. Jell turned away, Gghting down the rage that sethed within him.

The band was blaring out its brassy fanfaxe for the aerial act, the final deature of the show. At his post near one of the trapeze guy wires, Jeff was still thinking of Sascha, of how he could break the news to his father. Fur years Sascha had been his dad's favorite tiger.

DuF Colton laiteral ncarby, eppar ently much thore at estas since hearing the single rifte blot.
Jelf thought it was strange that a clenan shoudd setalenly come rashing in florough the perlormer's exit. He quick If theogized him as deaty frifuce, king of the buboms-riosed jocys. Forry shot atreous glances arount, spoted jaff and rushod over to him. Despite the thick greancpaint, Fell immedistely sam "he in the elown s eyes: quick ylanee batk over his shoulder "I just saw hes coming our lirom nuter a wation. She's headed this way, kid! Where"s the boss? Get a gum! lley, Duti, you-"
Duff Colton had altcady wonce aver At locaring the clown's words. Iis lace suddenly lalandied. "But that sthot".

Mustiz missed." the clown siad 'Hurry up. You better de monethin'? 11 that car-" Perty Joninces words tralled off. His eyes widemed.

CTaring pagi him. Jeft sabe Susch;i S unde intre sight oht ofl the dark sinatows beymul the purfornaces exit 7 he great lbengal stalked forwart in a low crouch, swaying lity heard bothy lrome side tu sikle.
"Beat it:" Duff finlons horse whisper wats filled witl| |cor." 'Let's get out of hare! T"hat-alat mith ols the prol!
"Wait, Duff"" |oll seick quilkly
Gtand still! 中mant ler start at phria!"
But the Gill babine hate already moved for a buition where ane of the bigig tent poilen oflered hime at meanure wi protertion
"Better beat in!" perity l'rance sail,
 will dielt killet
"Statul sulle war limil!" faid atopped lam with his sivies "Don't run!" His cyes and mind were quickly sizing up the situation. groping-bropiag. He Lought back the natural impulse to Follow Duff Coploma's learl atad Fiust some kind of protections. but al any cost, when at the rink al his un'a life, he must merent the perpple ir bloe
 chreaternd llame


 *Bul

The clown materd quictly andy, and Totl onuld enily houre ablat ha wasit Following Duff Gidan's leat.
 Fhe hyse humed her head somy
on Jeff. Even at the distance Jefl roundel see the lrightened uncertainty in tho bcast's actioms. Whathotaking this eye of the liongal. Jell cased ower beside the riaghaser. who stood with hit whip held boosely in his hathet-stoond with beads of sweat petablimis his tore head-parabyzed att the sight ot the ap proaching tiger.

Quick, Luu," Jelt whispered. indi ating the walking microplone held in the lingriaster's other tremblimg dand. Tell em this a special tiger aci. Hold 1p the trapeze stunt.
'Hey, kiel, you can't-'
Qit Jram wasy't paying any atcen B tions. Sascha had moved into duld jew under the brilliant arc lights.
Now lef satw the farge blotelo of red ons Sistha's right shoulder. anrl igain fought desperately against the: impulse lo turn and rar for trectum. Wiacha was wounded! Jeff sat how the crazed, textrish look in liet cyes.
"Thon't movel" felf called temstly tr maichaced usher. "Dom't pame on fre'll kis] you!
The ringmaster hatun't Itall time to mike his announcencin. Itue band atiddenly went muce. Everything Imader the big top suddenly frome inta intones bility. The amera achod with silente. wilence that crablal at any monetat trans torm into a terrom-tidaen panic. It was tuo late now lor any pretense.
Orie sucam: ame persun suthetery braking kot lecedom wauld weate cornpletc lasoor
|ctly towk the thip krom blae ring master"s trembling hand. "Saschat!" Ih nowed lorward, popped the whip to chater the tiger's attention: "Conac an. Sast lit?
 et tank on fier handaches. She Lested hat mucertiouly at die whip. fedl wen clered il Saselan, in her wrobeled state efen recognized him.
Eusy, sasclac. dasy. Cione un girl," Jeft petted her with his worls; moning stowly lomkwards as she came on. Her mammonh striped head swayed hack allad lurdh wish prias and mucertaintyJell proplocel the whip ugair, when Sas-
 amala: to hold thein pusitions any
 simulated a pury by bowing though lenseds fraset lips.
 6 uight la recalling similar sol troncs -und similat purs liom che prast when she was sick or lurt.




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through worse than this together."
Beyond the crouched animal, Jeff caught a quick glimpse of Boss Leland and the rest of the searching party. They stood tramsfixed by the scene taking place before thicir eyes.
Jell hazarded a quirk glance behind him-saw that Perry P"rince had come through, and that cage and a chute had been moved in and made ready to receive the cat.
Watching Sascha's wandering. painfilled eyes, Jell realized that he was begimang to lose control of the Bengal's attention. Once that was lost. bnce Saschan sensed the fear around her anything might happen. And the silence. the complete absence of any movement was mute testimony that everyone inside of the big top was puting lis trust it Jeffs ability to conntol the lonse ciscr.
Sischa stopped and licked at her round, as thongh the paill was setione in stronger. She shung izer leverinh cyes around. Iocused im a moment on the fear-paralyzed ringmaster.
Jell knew that he would have to act tast now-act and hope.
"Saschal" he shouted, turning and snapping the whip at the opening of the chute. "Saschat In, girll"

Then he shifted to one side and snapped the whip sharply over the Bengeal's head.
"lin. Sascha, inl"

THE tiger looked at feff a momonent. She started tu bare her tanes in al vicious shatl. Then she seemed to real-
ize that Jeff was still her friend, that Jeft had nothing to do with the pain in lere shoulder. With a lialf hearted roar. she rose up and lashed out almost play: tully at the whip. Just as she would in a rehearsal of the act. deff jerked the whip away and popped it quickly ilyalli \$ascha's rearing head.
"ln, Saschit, girl!" he popped the
whip again. "In!"
Sascha scemed to catch the cue now She took three quick steps toward the chute; then stopped and eyed Jeft un certainly. Jeff held his stare into the Bengal's eyes.
Saschas swung her head away, and rushed into the chute.
Instantly, Jell' dropped the whip and slammed the barred door of the smat! cage.
"Cood girl, Sascha," he breathed. "Gool girl!
Sascha blinked back through the bars, as though she was glad to be home asain.
There was al long moment when the only sound was the sucking in ot starved breath. Then the tent thundered with applanse. Jeff wanted desperately to sink down onto the sawdust and fusi sit there and wait for his strength to return. But he stood and lorced a smile onto his sweating lace, as a rush of humanity, led by Boss Leland, swarmed in on him.
"No one else in the world coukt have controlled that wounded cat!" Duc Carter said admiringly.

Nor the crowd.'
"Sasclaz and I got prety well ac quainted," Jeff smiled, "back when she had preumonia. She remembered. But it took her a little while. She's hurt. I'ru gring to help her."
"She's your cat if you want, Jeff," Russ Leland beatned. "They're all yours, il you want them. But you got to work them for me. No one clse."

Jeff looked up. "You mean that I
'I mean that 1 know a real cat man when I see one. And, come to think of it. I've never known anyone who could worl the Ralston Cats like a Ralston lley. Jell, where you goin'?'
"I've got a wire to send to my dad," Jeff said, grimning happily its ho backed through the crowd. "A hong wirel" tile enz

## The Whirlpool

(Continuted lrom page 15)
cuntal smell it, the odor clinging and nasisty. It was the smedl of pocato blossoms and rotting flesh.

Then the first ants came out on the bare sand.
He stared at one of the inch-Jang things walking toward his chair. With cold sweat breaking on him, he backed away.
Sonnchow, the animal specimens Fohn had collected sensed their danger for they began to howl and beat at their cages.

His mind misty with fear, harry alchated about them. If he didn't let them go the ants would pause to de. vour them. That would give him in little more time-and a mirate might happen. But he couldin't do it. He oprnes the cages. The monkeys took one terrified look at the arres ant fled straight up the stone wall. The tapirs. peccaries and other small animals plonged into the river, some living to reach the other side. but masy being literally eatch alive by the piranha. The birds flew silently away.
When the cages were enpty. he turned to face the ants,
The whole base of the triangle was now black with therm and they came on, streaming entlessly out of the jungle.
In about tell hours, Barry thought. John will come in the heliropter. It wouldn't take the amts more than ane hour to march down the triangle. He wondered if, when at last the black mass of them flowed over him, the poison of their stings would make
him unconscious? He hoped so.

TThinking of thay. Barry tried to remember all he knew about ants. Symenopiera-in the order with bees and wasps. He knew little about them For he was more interested in lepidop-tera-moths and butterflies Rut, as he bat there watching death coming, he remembered a char he'd had with the Professor.
"Barry," the old man had said, "if you want to be famous just find out what makes ants really tick. Even scientists have said that ants behave the way they do becausc they have some sort of super intelligence." Then he had picked up a little formica ant. "Look at this. Here's a critter who is fifty million years older than Man. If it's so intelligent why is it still practically blind and dealor If this litule nuisance is so smart, why can't you teach it anything? Shucks, you can teach a flea more than you can an ant Maybe auts aren't as smart as they're cracked up to be Maybe they're really stipide'
Remembering those words, Bary anwly began to think. He had done some thinking in his life-in school: as a quartcrback; in Boy Scous work but he had never thought the way he did now. It was cohl. clean. swift thought, put together with the preci sion of a fine machine.
First, he examined his horrid, sick fear. As long as he let that run wild in him be would be helpless and the ants or the piranha would soon eat him alive. If he contmolled his fear, he

might be alale to find an escapace. He enomtrolled is and forced his mind to attack the problem.

$\Gamma$time was the key. Time. If he coukd stall. or even slow, the march of the ants for ten hours, Jolun woukd save him.
His mind raced through all he knew and hasl nbserved abous amy ants and ended with only dine real fact: the entire mass of ants moved forward in an alnoust strajght linte, regardless of ubstacles.
Why?
Did they know where they were maing?

Barry decided to find the answer to that question. He wheeled himsell chose to the ants, his stomach revolting at the odor rising from them. Then, holding the muzzle of the gun down in the sething front, he let a dozen or so clinub up it before wheeling away again.
Fe picked the ants off the gan and aropped them on the ground. Then, his face intent and drawn with pain, lie lcaned over and warched them. IL, tre reasonct, thesc ants all began to march again in a straight line, then they knew where they were going. And he was lost.
But the ants milled amessly around often bumping into each other.
patt of Barry's mind cherred, the other part. which promised to mouke dime a great scientist, filed away atother fatu: not one single aut had any idea where it was going.
Fift, the great, seething mass of them thid. Barry thought of a smowball rell ing downtill. No indlividual llake of snow would muve by itsell, only the: mass and speed of the ball moved them.
$7 \begin{aligned} & \text { Mime whs urainins swifely away, the } \\ & \text { ants marching fasi now, }\end{aligned}$ fought back his fear of them and wemt on experimenting with his little gromp. Witla the muzale of the gus he forced one of the ants to walk in a straight line. Each one of them, by some process he couldn't discover, soon found the trail and followed it to its end before trail and followed it

His dread was like a fog, always trying to clase over his mind like walls rolling together. Even as he watched the ants plodding along, his vision got misty as he let himself think of them swaming over his body.
What would happen, he asked himself. if there wasmit any cull to the trail they were lollowing
He could feel his mind fighting its way lack to tackle that question. Exditcment begar to build up in ham, his hands ternsing on the wheels of hin chair.

## No end to the trail?

Carefully and gently he forced one ant to walk in a complete, bontwide circle.

Then, as he sat waiting to sce what would happen, there was nothing else
in the world for him except his little proup ol ants. His whole minnl conecnurated on them, forgeteing the ammy of theme, and the piranha in the river forgetting his pair and lear and loneliness. He was a pure scientist watching a haboratory experiment.
As one ant approached the invisilile circle made by the first one, Batry held his beath. his fingers hard on the wheel rinis. As the ant siowly began of meve along the trail, he still did not breathe nor move.
The ant wont all the way around the circlet.
Rarry, his whisper an agony, salid. 'Nom!' Now"'

The ant kept on. its antennac flick ing along the bare ground.
It went around the circle afrainl
One after the other, the antş Iound the endess trail and went around it slowly, one bchind the other, around and around.

B
aksy slowly let his breath out and leaned back, looking up at the high, clear sky. As though talking to the Irofessor' he said, "You see, they'xe followity an endess trail. They Ganoot thins, nor reatom. They're hollowing one another cither by scent or by some tiny vibration. And-if nothimg breaks that circle-rhey slomalel go on, around and aronnd, until-they die.
IIc looked down at the circliug anes Slowly, he said, aloud, "If a dorent ants are stupicd emough to walk an entless trail, so are at hundred, a thousand. million?"
Ilis mind becatme strampely ealm. clear and ice colle. He lad a weapon mow Whether it was great enough, he did not know, but he was ready now to pit his mind against the quivering maxs of ants.
He knew very woll that it he lost he would die.
'I he ants were approaching hin witl the tront of the ariny in at huge $U$ shatpe. One leg of the Uf streamed alones boside the bluff. the other along the bank of the river.
It was, indeex, a [ommidable army Whish secmed to be directest by a master mind-an intelligence great enough to guide this myriad of insests so that they could trap and devour him.
Rut Barry Bentom was staking his life on his belief that this was not
erne. He was staking his life on his true. He was taking his hite on has
belief that their line of marrh was determined, not by inteligence, but by one blind ant inllowing another, muleiplied a hundred thousand limes. Barry urheeled his chair toward the columan of ants coming along the riter. As he came close, so that the horrid reek of the ants Ilowed around him, innd he could hear the dry rusiling of their bodics, his dread and fear of them swept over him again. The enormous risk he was about to take almost overwhelmed him, so that lie stopped turning the wheels of the chair for


## Nothing

IN FOOTBALL
is quite so much under discussion nowadays as the value of the " T " formation and no one knows more about the subject than

## FRANK LEAHY

Coach of the Notre Dame Football Team

Be sure to read his article
"T" FOR TOUCHDOWNS
in The October issue of BOYS' LIFE


## Browsing for

## CIBIS and CIMMICKS



You can wet the Soackit just :about antuluré. A box uf decatalsw solve's pour law prosicur. Jusi lighlu one on tue collapmilule grate (see photo alowe
 Sig fate ery al steamer cooker. The
 lav th Snackit Co. 18 E. Kinzie St., Chingot 11, 111 .


You can carve these ensy tor make totem porles iliat come itr kit forme. Thegre made eif sote whitting pine and umme in rriangelar lemgets ready prismet. So all you hegimers have to do is bollow the Jnes.

The Thunderbird-Bat Kit (leta) inclutch the printed block and wios piece, base nails instructiens and coloring dart. The Kingfisher Wholl Rit aloo comes complete. Eirh his retaila at !ell cents postpaitl. it 42 page cralas cataloge is offered lor 20 exnis, The
 Miderials. Dept. T.. IU\& Framklin Si. New Yorh 13. N. Y.


All you do is twist the hnndle of the Tuth-Pak and the tonthpaste squirs out automatically between the bristles. A transparent lead fits snugry over the brush section. The unit retails at $\$ 1.00$ postpaid, and comes in red, blue, green or amber. The manufacturer is TuthPak Co. 717 No. La Cicnega, Los Angeles 46 , Calif. Dept. CH-2. OOR YOUl GUYS who are on the lookoul for new camping gimmicks. birthday presents for vour brother or pals. and mother's and father's day gifts, herces at ralumn that maty give you an idea when you realty need one

Most of the items youll read abous will be new. OHers win't be new, bul will have appeared on the market only in limited areas. Bows Life will bring them to voul hy showing you what they look like. how mucli they cost and where you an get them.


With the Nagnus Horn Harmonica you can sumed like at whole band-at least lauts what the mannamburer says by uponing and alosimp yont hatud rapially ower the bell of this amplifymy ham (we phote above) you cim imitatl different musical instronema unt still senond like a hamomica player. The homb tois teri tome holes that enable you to reach rum and a lalf octaves. The Jagrus Horm is male of Ihikelite plastic. concs in rod. halue nor
 manntacturer of this harmonica with instrument variations is Magnes liarmonical Corp.. 4 4se Irclinghaysen Ive. Newark 5, N. J.


The Delta I-Way brycle light (see photo above is monured on wour rear Ecoder :sul works this wa
by using the witch on your handlebar wou can light we red plastic artow signalls low cither a lett of right turn. The tail light unit works three wavs. It's a mormal rellactur. It shines constantly when you turn on a switch. And you increase its brephtncss antomatically when you work your brake The anit takes standard Hatiblight batteries, is made of whitc baked enamel. Made by the Delta Electric Co., Marion, Indiana, the light retails at abnut $\$ 4.00$. Its dimensions are $5.5 /{ }^{*}$ long, $35 / \mathbf{a}^{\prime \prime}$ wide, and $31 / 2^{\prime \prime}$ hight.

a monent and inst sith, sick with lear, his lace gray. his lureath chokinge in his thrmat.
It took all his strengel al will m begin again terning the rhatit whecls.

$\mathrm{A}^{\top}$T the hiall of the colunun he ings. I he ants looked tos him like black hoiling ail as they sethed across the bare gromad.
With the Hat of the gun hutt he gembly shoved the lead ants of the colunin atround in as tide a circle as ha could reach.

Amoxt intacdjitely lla citcole was destroyed by the surge: of blint inats moving formard.
Panic swept hime ats he satw dits bxginning to climb tip his chair.
He larushed them onl and lored his mind to think. With only a lew ants Here san mo pressute to brcak their circle: will bmasambly the was. Be catase of this he must form his circle so that it would drain oll the prebsure insteat of opposidery it,

Again wist bice furl buat, but this time choosing oniy those ants an whe inner edge of the tep of the colutnon. the formed another circle.

Hhen a lew hundred ants were going slowly around and around, he concenmated on the rest of the column. Those near the circle joined it, any who wandered past, he showerl into in. Some he smashed with the pun buth on make the rest patase.
Anny [s] the ants cseaped him. found his chair and crawled up it. ['leir stings were painlul-a slow. Calling firt-and they bit into his flesh wifh theit mathibles at the same time. hut he was too hisy to stop to get rid ol them.
Cradually. ats he fowed more amed mors ant tol join the senseless circle. the dircle itself leestraty to help him. It developed a force of its own cartly like the flowing water around a whirlprool, the parimoter of it suthing ants ithon ble alow revolting miss.

T
 falumn pouring into it. But as it grew. it also became an obstacle in the path of the forward movement of the artuly. Sonn, Barry realized winh fear, this pressure would break over the whirl. pool and destray it.

Hix only chance was to force the entire mass of ants into one tremendous, rewolving wheel, ome great. cndless trail.
Driving himself against pain and cxhaustion. he whecled his chair all the way across the triangle to the head of the column following the bluff.

Winh his breath dry and raw in his throat, and the pain from his ankles blurring hix
able to think.
The first whir!pool was going in clockwise direction. lherelore, b started the next whirlpool going counterclech wise; and as lar from the blut as he could so that there would be room tor it to grow

With both whirlpools now slouly cirdity and tach draining ants mil of the conoral mass, Bary could stop long enough to pick the insects off his hosty. 'Che poison of theeir stitys was geeping thenogin him and the sciensilio part of his mind mader at tonte of the fact that the poison hat a tendemy 10 paralye him but did not make hini meonscons. If he loit this battle amal was overwhilmed his mind would stay perfectly alear until the ants ate dema (1) Liis tital nerve centers.

Endessig, patr and fatigue enemion almost 35 ypeat at the ants Barry fouph theme By lomsong staall waid poods all along the lone. he: dratme all pressury which always threatemed to break his andereall pools. His hatels raw and takecling from the wheel rimb, be kept on matil, at the sum marked noun, the outer edges of the two whirlpools touched.

Tow, mie knew, he couls lose 11 the rhouthm al an7ny would begin agaia, its straimht Temderly. penty, while handreds of them wawled an him, paratysing biat with their poisuls, lie meshed the two perimeters, quiding the ants from the smaller porsil into the larger.
When, al lasi, he could see : distinat current rumbing in the sheny was and knew that wors there wotult tar anly one great. black wemply circling thass Are barely lad contral cmophgh of his hands ond aruls to wheel Thimsell cuut of clanger.

Sitk rumbs, with pain at batace all over his body. he looked at the singlt: whirling mass of ants now streteling Irom the butl to the
He had done what he had set oul to do and vet, as he watched, he realized that. at last. he had lost. He slumped in the chair and let despair flow over his mind.

He was beaten. And space, not time, had whipped him.
Alrcady the nuter rin of the whirl poal was grownys ragged, soluall groups of ants tearing away from it and wandering oll. Becatuse-where simply was not enough space between bluff and river for all of the ants to kecp un circling.

Barry knet then that no brilliance of mind. no deat of intelligence could overcome that dumb, mechanical mat ter of space.
Nakking his mind function once more, he looked at his wrist watch
'r'wo o'clock. According to his calculainatas. John was just arriving how a Porto Velho. It would take. Barry figuted. ati lume to see alour ilice pro [cssor. And another hour to arrange for the leelicopter. He could not hope for rescue until four oclock.
By three o'clock he figured, the whitpool would loe gone. the ants would occupy ill the space left
Barry had lost the battle by abou one hour.
Slowly, the whirlpool slowed, sturn bled. Two columins begar to lorm.

When the ants were lapping a colled back away trom thetm. Then a gain. Atul again
Then the sand boder his chair wheels wat soft, wet. The river wat
Whicli way did he wand to go-ant or piranha?
The Fish, he thought. They were fitster, less hortil)le: FTe woilld not have to endume that nasty adar of the ants.
All right, the fish. He swulg his chair around and turned the wherls watching thero po showly drown into the blark water. F
The atuts wore at the edge of the river. As one was pushed into the water. it clung to a priece of sinnd on the lank. The next one walked down its body, fell in. क्षTabloed the first ont armit held on. Slowly, each ant clinging to the last one they began buikling ton 1 monsand litte living bridges acros the stream.

Batry rolled his chair deeper into the water. watching the black surface coming up, inch by inch, umtil his swollen teet felt the eool wash of it. As soon did get my body in one Tratest, he thougha. at try to swem, Th piranha may not bill me before rench the" owher side. Then, perhaps I cant drag mpself auray before the ants get acrows. But-cem John ewer find
Hie gripped the wheel tims with bis bloredy hamds
'Then thete was an sond like that of : tuy moibe-maker at a children's party. A claterimg, disconnected moise coming rown from the sky.
Above hima lorkisy silly ats it foated slompy down, was a helicopter.
Barty's mimel was too exhausted to fer alny extotion at all. Ondy a remnant of twe scientilic part uras embar rassed by the crot in his calculations.
foln wasin't due for an hour more. Ratry louked at his wrist watch. Two a'dock.

Tumo o'dock? his mind asked, be wideryed.
"I'hen lie listenect. The watch wasn't rumbing.
fohn was yelling, "Don't go any sieeperl Stay there

Bary gazed up at the thelicopter himging just above firm. He could see John's face and the dark hair of the C3razilian pilot.

Hold your arms straight up. Barry, Johir yellenl.
It took his last strength to to that, but John's fingers clamped hard around his wrists.

Then, as Barry floated upward from the chair, wftly and slowly. he looked down at the black carpet of ants. Whispering, he saitl, "Dumb. They're just dumb litte insects. He was still looking down at them as Jolan hauled him on up into the helicoptex, the end

military aCADEMY Roto untit Band. Amain higheat ra mg . Complette athlutho promant fot all. $\frac{1}{7}$





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 *MILITARY ACADEMY


THOMAS JEFFERSON



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## SThink and Grin R

From at home where Boys* Iife is read regularly comes the following story. "Recenty, Lifehuny shap has laen favored by one of the menbers of our family. A few days ago nur fiveyear oid daugliter was sent to wash her lands belore dinmer, and upont retuening was asked whether her hands were properly clean. 'Olt, yes,' she replicd. 'I wathed thern rood with Bows' Lite soap.' "-George E. Ward, Washingtom, M.

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Winman: l'll have a large larmp chop with huttered carmoss and peat. And hive the rlmp lean.
Waiter: Yes, madam, which way? - Waiter Wroerne, Broohlyn, N. Y.
"hut, Mrs. Jones," protentel a neighbur. "isan"t your son rather young to join the Anmy?"
"Ol, yes, luut he's yoing in the in-fantry."-Helen Kohls. Kenlland, Ind.
"I low's buniness?" a friend asked the scissors grisuler. "Fine" he replied. "I've never seen things so dhIl."Kowald Analong, Greemille. Penm.

Bill: Do you believe in clubs for wortecti?
for: Yes, if kindness tails.-Fred Perkins, Bewerly, Mass.


Clerk: These are espccially surngg shircs. madant. "hey simply batgh at the laundry.

Cinmoner: 1 know. 1 had some returnal from the tanadry with their sides aplit.-1 Willima Boflmer, Eden, N. $Y$.

Bystandet: Cutching any?
Dick: Caught forty bass atsd perch here vesterclay.

Bystander: Do you know who I am? Dlit: Nis. sir, can't say that I do. Bybtander: T'm the fish and game warilets.

Dick: Do ynu know whor I am?
17ystather: No.
Dick: Well, I'a the thiggest liar in Minnesota.- Paul Chell, Kensington, Minn.

Teadter: Name two slocoting stars. Pupil: Roy Rogers and Gene Autry. -Johar MeCormicte, Mrinchester, lowa

A Scotarina whe had worn the same hat for fifteen years derided with heavy beatt to huy a new one. Going into the andy hat shons in the neightyorhood he said. "Well, hore I am agatin." Kerneth Kuhufcek, Johnstownt, Pa.

New Boss: Itave you any referencera? Boy: Yes. here's one letter. It says "To whom it may eoneern. Tom Jones worked tor us for one weck and we are salisfied."-Roy Smith, Denwer, Colo.


1st: What do they call a slecping bulli

2nil: 1 don't know, what?
1st: A Rulldozer.-Edwin S. Hughes, Auston, Texas
Doretor (alter broging his patient around): How is it that you tow that poison? Didn't you read the sign on the botale? It said 'PORSON." "

Patient: Yes. But I dida't believe it.
Doctor: Why not?
Fatient: Recilse: right undermenth, another xipil said 'Lyc.' "-Romald Huse, Tenteck, N.J.
1st Student: Too bad about the disappearance of Professar Smith. He was such a profound thinker.

2nd Sudent: Yis, I understand he was always thinking, regarclesf of where he was, Why, just a few days ago when 1 last saw trim, le was swimming and sutlenly called out, "「'm thinking! I'm thinkingl"-Ermest Hanna, Fidhingan, Pot

Cistumer: "Ihis steak is awful. How was it cooked?

Water: Why, it was smothered in ontons, sir.
Customer: Well, it sure died hard.Walier fohmmon, Dexter, Maine

The city laoy was visiting lis uncle's farm for the summer. "Oh." he said as some small culwes scampered across the meathow, "what cute little cowlets."
"I'm sorry, son," replied the uncle, "buit thems's tuhlets."-Tom Gustafson, Bakerspleld. Calif.

Amnt: How died Jimeny do an his history test?
Mother: $\operatorname{Vot}$ tom well. Bur it wasn't his taull. They asked him about things that happened long before he was born.-Edrunnt Carter, Hauston Texms.

Lessing. a thmous German writer became quite absent-minded in his old age. Atrer he had arrived thome late one night, lie disoverod he had forgotton his twy. He began knoking heavily on the door. Finally his serwant sand his head througla a herlronm window, and not remgnizing his master who was by now losst in thought, shouted. "Ptofensor Lessing is not ill just now."
Still tont int thought, Lessing ant swered, "Oh that"s too hatd. Tell him I'll call apaitı tomorrow."-Sidncy Gonnow, 5t. Lomis, Mo.


The farmer was trying to yell lis old lumse. Alter trotting hinn around a while, loe sajd to his prospective linger. "He has a beratitul coat, hasnt her" The buyer, noticing low hared the horse was lirethining, said, "His cont's. all right, but 1 disn't like his paus." -Sidney Schuster, Sh. Petergongg Fin.
'Tuather: fiamy. cnrrect this sentence. Gitls is natirally prettice than boys.
finnmy: Cirs is artificially frentiet than brifs,-Rampryme Barrett, Thammandeprif, N. Y.

## MILLICENT



| sogers METJON |
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Refresh... Add Zest to the Hour

In town, the-whd Cumer iola is armond the cornet from arywhere.
But ous where there ate nut conneris, the bere bit the pants
is the che what tringe the Giske along -ite cold in the handy pianik couler.

GariGola Coke


[^0]:    Listen to the Buster Brows Radia Show with Smilin' Ed Nticonnell Salurday marming over NBC. And see and hear the Suster Brown TV Show in selecled citits, too. For time and stalion see your lacal newspoper.

[^1]:    Signature of Witness

