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DECUS NO.	11-5
TITLE	BLACKJACK FOR FOCAL-11
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COMPANY	Digital Equipment Corporation Maynard, Massachusetts
DATE	January 1, 1971
SOURCE LANGUAGE	FOCAL

ABSTRACT

This program deals random Blackjack hands to itself (the dealer) and the user (the player).
Hit "Y" if you want a hit, "N" if not. Utility functions are provided to deal and print
card values.

C:FOCAL-11, TEST

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5Ø.Ø5  T   ! "WELCOME TO BLACKJACK! "!
5Ø.1Ø  E
5Ø.2Ø  S   H= 5
5Ø.3Ø  T   !! " PLAYER    DEALER"!
5Ø.4Ø  S   Z=FNEW(FNEW(6,52),53)
5Ø.5Ø  S   Z=FNEW(1,52);T  "              XXX"!;D 5Ø.4
5Ø.55  S   Z=?           ?FNEW(FNEW(1,52),53)
5Ø.6Ø  S   A=FNEW(6,51)
5Ø.7Ø  I   (FNEW(1,51))5Ø.76,5Ø.75,5Ø.8Ø
5Ø.75  T   "DEALER WINS!   XXX WAS ";S Z=FNEW(C(1),53);G 5Ø.1
5Ø.76  I   (A)5Ø.75,5Ø.85,5Ø.85
5Ø.8Ø  I   (A)5Ø.75,5Ø.85,5Ø.9Ø
5Ø.85  T   "PLAYER WINS! "!; G 5Ø.1
5Ø.9Ø  A   "HIT? ";S A=FCHR(-1)-192-ØY;T  !;I (A)5Ø.92;D 5Ø.4
5Ø.92  I   (FNEW(1,51)-18)5Ø.55;I (A)5Ø.94;G 5Ø.6
5Ø.94  I   (FNEW(1,51)-FNEW(6,51))5Ø.85;G 5Ø.75

51.Ø5  C-SCORE    COUNT    INDEX
51.1Ø  S   &1=Ø; S &2=Ø;  S  Z=&-1
51.2Ø  S   Z=Z+1;I (Z-&-5)51.3;I (&1-22)51.5;S &=-1;R
51.3Ø  I   (C(Z))8,51.2;S &2=&2+1
51.35  I   (C(Z)-37)51.37;S &1=&1+1Ø;G 51.2
51.37  S   &1=&1+ 1+ FITR<(C(Z)-1)/4>;G 51.2
51.5Ø  I   (&2-5)51.6;G 51.7
51.6Ø  S   Z=Z-1;I (Z-&)51.8;
51.61  I   (FITR<(C(Z)-1)/4>)51.6,51.62,51.6
51.62  I   (&1-11)51.6,51.7,51.6
51.7Ø  S   &=Ø;R
51.8Ø  S   &=&1;R
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52.05  C-DEAL
52.10  S   Z=FITR(53*(FRAN( )));IF (Z)8,52.1;
52.20  S   &1=1
52.30  I   (Z-C(&1))52.4,52.1;
52.40  S   &1=&1+1;I (&1-H)52.3;
52.50  S   &1=&
52.60  I   (C(&1))8,52.7;S &1=&1+1;G 52.6
52.70  S   C(&1)=Z;S &=Z

53.01  S   Z=53.11+FITR((&-1)/4)/100;D Z;T  " OF
53.02  S   Z=53.24+ [ &-FITR(<&-1>/4)*4÷1 ]/100;D Z;T  !;R
53.11  T   "ACE
53.12  T   "DEUCE
53.13  T   "THREE
53.14  T   "FOUR
53.15  T   "FIVE
53.16  T   "SIX
53.17  T   "SEVEN
53.18  T   "EIGHT
53.19  T   "NINE
53.20  T   "TEN
53.21  T   "JACK
53.22  T   "QUEEN
53.23  T   "KING
53.24  T   "CLUBS
53.25  T   "DIAMONDS
53.26  T   "HEARTS
53.27  T   "SPADES
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