```fortran
C       GAME OF HANGMAN BY DAVE AHL, DIGITAL
C       BASED ON A BASIC PROGRAM WRITTEN BY KEN AUPPERLE
C            HALF HALLOW HILLS H.S. DIX HILLS NY
C       CONVERTED TO FORTRAN 77 BY M.WIRTH, APRIL 2012
C
        PROGRAM HANGMAN
        CHARACTER P(12,12)
        CHARACTER D(20), N(26), A*20, GUESS, B*20, ANS
        INTEGER U(50)
        INTEGER Q, M, I, J, W, T1, R, L
        REAL RND

        CHARACTER*20 DICT(50)

        DATA DICT/'gum','sin','for','cry','lug','bye','fly','ugly',
     M           'each','from','work','talk','with','self',
     M           'pizza','thing','feign','fiend','elbow','fault',
     M           'dirty','budget','spirit','quaint','maiden',
     M           'escort','pickax','example','tension','quinine',
     M           'kidney','replica','sleeper','triangle',
     M           'kangaroo','mahogany','sergeant','sequence',
     M           'moustache','dangerous','scientist','different',
     M           'quiescent','magistrate','erroneously',
     M           'loudspeaker','phytotoxic','matrimonial',
     M           'parasympathomimetic','thigmotropism'/
        WRITE (*,*) "THE GAME OF HANGMAN"
10      DO 16 I = 1,12
            DO 15 J = 1,12
                P(I,J) = " "
15          CONTINUE
16      CONTINUE
        DO 18 I = 1,20
            D(I) = "-"
18      CONTINUE
        DO 20 I = 1,26
            N(I) = " "
20      CONTINUE
        DO 25 I = 1,50
            U(I) = 0
25      CONTINUE
        DO 30 I = 1,12
            P(I,1) = "X"
30      CONTINUE
        DO 40 J = 1,7
            P(1,J) = "X"
40      CONTINUE
        P(2,7) = "X"
        C=1
        W=50
        M=0
        IF (C .LT. W) GO TO 100
        WRITE (*,*) "You did all the words"; GO TO 999
100     RND=RAND()
        Q=CEILING(RND*50)
        IF (U(Q) - 1) 120,100,120
120     U(Q) = 1; C=C+1; T1=0
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          A = DICT(Q)
          L = LEN_TRIM(A)
          WRITE (*,*) D(1:L)
170       WRITE (*,*) "Here are the letters you used: "
          DO 180 I = 1,26
              IF (N(I) .EQ. ' ') GO TO 200
              WRITE (*,'(AA$)') N(I),","
180       CONTINUE

200       WRITE (*,*) " "
          WRITE (*,*) "What is your guess? "; R=0
          READ (*,*) GUESS
          DO 210 I = 1,26
              IF (N(I) .EQ. " ") GO TO 250
              IF (ICHAR(N(I)) - ICHAR(GUESS)) 210,205,210
205           WRITE (*,*) "You guessed that letter before";
              GO TO 170
210       CONTINUE
          WRITE (*,*) "Invalid character"; GO TO 170
250       N(I)=GUESS; T1=T1+1
          DO 260 I = 1,L
              IF (A(I:I) .EQ. GUESS) THEN
                  D(I) = GUESS; R=R+1
              END IF
260       CONTINUE
270       IF (R .EQ. 0) THEN
              GO TO 290
          ELSE
              GO TO 300
          END IF
290       M=M+1; GO TO 400
300       DO 305 I = 1,L
              IF (ICHAR(D(I)) - ICHAR("-")) 305,320,305
305       CONTINUE
          GO TO 390
320       WRITE (*,*) D(1:L)
330       WRITE (*,*) "What is your guess for the word? "
          READ (*,*) B
340       IF (A .EQ. B) GO TO 360
          WRITE (*,*) "Wrong. Try another letter"; GO TO 170
360       WRITE (*,*) "Right! It took you ",T1," guesses"
370       WRITE (*,*) "Do you want another word? (Y/N) "
          READ (*,*) ANS
          IF (ICHAR(ANS) - ICHAR("Y")) 380,10,380
380       WRITE (*,*) "It's been fun! Bye for now."; GO TO 999
390       WRITE (*,*) "You found the word."; GO TO 370
400       WRITE (*,*) "Sorry, that letter isn't in the word."
410       GO TO (415,420,425,430,435,440,445,450,455,460), M
415       WRITE (*,*) "First we draw a head."; GO TO 470
420       WRITE (*,*) "Now we draw a body."; GO TO 470
425       WRITE (*,*) "Next we draw an arm."; GO TO 470
430       WRITE (*,*) "This time it's the other arm."; GO TO 470
435       WRITE (*,*) "Now, let's draw the right leg."; GO TO 470
440       WRITE (*,*) "This time we draw the left leg."; GO TO 470
445       WRITE (*,*) "Now we put up a hand."; GO TO 470
450       WRITE (*,*) "Next the other hand."; GO TO 470
455       WRITE (*,*) "Now we draw one foot."; GO TO 470
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460     WRITE (*,*) "Here's the other foot -- You're hung!!."
470     GO TO (480,490,500,510,520,530,540,550,560,570), M
480     P(3,6) = "-"; P(3,7) = "-"; P(3,8) = "-"; P(4,5) = "(";
        P(4,6) = ".";
481     P(4,8) = "."; P(4,9) = ")"; P(5,6) = "-"; P(5,7) = "-";
        P(5,8) = "-"; GO TO 580
490     DO 495 I = 6,9
            P(I,7) = "X"
495     CONTINUE
        GO TO 580
500     DO 505 I = 4,7
            P(I,I-1) = "\"
505     CONTINUE
        GO TO 580
510     P(4,11) = "/"; P(5,10) = "/"; P(6,9) = "/"; P(7,8) = "/";
        GO TO 580
520     P(10,6) = "/"; P(11,5) = "/"; GO TO 580
530     P(10,8) = "\"; P(11,9) = "\"; GO TO 580
540     P(3,11) = "\"; GO TO 580
550     P(3,3) = "/"; GO TO 580
560     P(12,10) = "\"; P(12,11) = "-"; GO TO 580
570     P(12,3) = "-"; P(12,4) = "/"
580     DO 585 I = 1,12
            WRITE (*,*) (P(I,J),J=1,12)
585     CONTINUE
590     IF (M - 10) 170,600,170
600     WRITE (*,*) "Sorry, you loose. The word was ", A
610     WRITE (*,*) "You missed that one."; GO TO 370

999     WRITE (*,*) "Ending..."
        END
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