PROGRAM drawtree

READ n

Line=1

IF n=1

PRINT “\*”

ELSE IF n=2

PRINT “\*”

Line = Line+1

PRINT “\*”

ELSE

WHILE line<n

Count=0

WHILE Count<(n-line)

PRINT “ “

Count = Count+1

ENDWHILE

Count=0

WHILE count<(2\*line-1)

PRINT “\*”

Count = Count+1

ENDWHILE

Count=0

WHILE Count<(n-line)

PRINT “ “

Count = Count+1

ENDWHILE

Line = Line+1

ENDWHILE

WHILE Count<(n-line)

PRINT “ “

Count = Count+1

ENDWHILE

PRINT “\*”

WHILE Count<(n-line)

PRINT “ “

Count = Count+1

ENDWHILE

ENDIF

END

PROGRAM rockpaperscissors

Rounds=0

P1wins=0

P2wins=0

WHILE rounds<3

P1=random(r,p,s)

P2=Random(r,p,s)

IF p1=r AND p2=r

Rounds=rounds-1

ELSE IF p1=r AND p2=p

P2wins=p2wins+1

ELSE IF p1=r AND p2=s

P1wins=p1wins+1

ELSE IF p1=p AND p2=r

P1wins=p1wins+1

ELSE IF p1=p AND p2=p

Rounds=rounds-1

ELSE IF p1=p AND p2=s

P2wins=p2wins+1

ELSE IF p1=s AND p2=r

P2wins=p2wins+1

ELSE IF p1=s AND p2=p

P1wins=p1wins+1

ELSE IF p1=s AND p2=s

Rounds=rounds-1

ENDIF

Rounds=rounds+1

ENDWHILE

IF p1wins>p2wins

PRINT “player 1 wins”

ELSE

PRINT “player 2 wins”

ENDIF

END

The two players select rock, paper or scissors. Rock is defeated by paper which is in turn defeated by scissors which is in turn defeated by rock. If the two players pick the same, an additional round is played. The winner is the one who wins two out of three valid rounds.