

OS Mid Project

Ahmed Kasteer 20F-0336 Section 4D



Code For Snake and Ladder Game

#!/bin/bash

printf " Enter Player1 name : "

read player1

printf "\nEnter Player2 name : "

read player2

echo -e

player\_1=0

player\_2=0

printf " --------------------------------------------\n"

printf " Snake at Position | Ladder at Position \n"

printf " --------------------------------------------\n"

printf " from 91 to 28 | from 8 to 26\n"

printf " from 92 to 51 | from 21 to 82\n"

printf " from 83 to 19 | from 41 to 77\n"

printf " from 69 to 33 | from 50 to 91\n"

printf " from 59 to 17 | from 62 to 96\n"

printf " from 49 to 9 | from 66 to 97\n"

printf " from 46 to 5 | from 89 to 100\n"

while((100))

do

printf "\t\t"

printf $player1

printf " Press any key to continue\n"

read a

dice=$(($RANDOM % 6 +1)) #random value in dice

printf "Dice value is "

echo $dice

player\_1=$(($dice+$player\_1))

if(($player\_1>101)) #if p1 greater than 101

then

player\_1=$(($player\_1-$dice))

printf "Dice value is not competible\n"

fi

if(($player\_1==101)) #if p1 greater == 101

then

echo $player\_1

printf $player1

printf " wins the game\n"

break

fi

if(($player\_1==98)) #conditions for snake and ladder

then

player\_1=$(($player\_1-70))

printf "Snake\n"

elif(($player\_1==92))

then

player\_1=$(($player\_1-41))

printf "Snake\n"

elif(($player\_1==83))

then

player\_1=$(($player\_1-64))

printf "Snake\n"

elif(($player\_1==69))

then

player\_1=$(($player\_1-36))

printf "Snake\n"

elif(($player\_1==59))

then

player\_1=$(($player\_1-44))

printf "Snake\n"

elif(($player\_1==49))

then

player\_1=$(($player\_1-40))

printf "Snake\n"

elif(($player\_1==46))

then

player\_1=$(($player\_1-41))

printf "Snake\n"

elif(($player\_1==8))

then

player\_1=$(($player\_1+18))

printf "Ladder\n"

elif(($player\_1==21))

then

player\_1=$(($player\_1+61))

printf "Ladder\n"

elif(($player\_1==43))

then

player\_1=$(($player\_1+34))

printf "Ladder\n"

elif(($player\_1==50))

then

player\_1=$(($player\_1+41))

printf "Ladder\n"

elif(($player\_1==62))

then

player\_1=$(($player\_1+34))

printf "Ladder\n"

elif(($player\_1==66))

then

player\_1=$(($player\_1+31))

printf "Ladder\n"

elif(($player\_1==89))

then

player\_1=$(($player\_1+11))

printf "Ladder\n"

fi

for i in {1..100} #loop to form table

do

if(($i==$player\_1))

then

printf "P1"

elif(($i==$player\_2))

then

printf "P2"

else

printf $i

fi

printf " "

if (($i%10 == 0))

then

echo -e

fi

done

printf "Player 1 is at Position: " #player1 score after dice role

echo $player\_1

printf "\n"

#player2's turn

printf "\t\t"

printf $player2

printf " Press any key to continue\n"

read a

dice=$(($RANDOM % 6 +1))

printf "Dice value is "

echo $dice

player\_2=$(($dice+$player\_2))

if(($player\_2>101))

then

player1=$(($player\_2-$dice))

printf "Dice value is not competible\n"

fi

if(($player\_2==101))

then

echo $player\_2

printf $player2

printf " wins the game\n"

break

fi

if(($player\_2==98))

then

player\_1=$(($player\_2-70))

printf "Snake\n"

elif(($player\_2==92))

then

player\_1=$(($player\_2-41))

printf "Snake\n"

elif(($player\_2==83))

then

player\_1=$(($player\_1-64))

printf "Snake\n"

elif(($player\_2==69))

then

player\_1=$(($player\_2-36))

printf "Snake\n"

elif(($player\_2==59))

then

player\_1=$(($player\_2-44))

printf "Snake\n"

elif(($player\_2==49))

then

player\_1=$(($player\_2-40))

printf "Snake\n"

elif(($player\_2==46))

then

player\_1=$(($player\_2-41))

printf "Snake\n"

elif(($player\_2==8))

then

player\_1=$(($player\_2+18))

printf "Ladder\n"

elif(($player\_2==21))

then

player\_1=$(($player\_2+61))

printf "Ladder\n"

elif(($player\_2==43))

then

player\_1=$(($player\_2+34))

printf "Ladder\n"

elif(($player\_2==50))

then

player\_1=$(($player\_2+41))

printf "Ladder\n"

elif(($player\_2==62))

then

player\_1=$(($player\_2+34))

printf "Ladder\n"

elif(($player\_2==66))

then

player\_1=$(($player\_2+31))

printf "Ladder\n"

elif(($player\_2==89))

then

player\_1=$(($player\_2+11))

printf "Ladder\n"

fi

echo -e

for i in {1..100}

do

if(($i==$player\_1))

then

printf "P1"

elif(($i==$player\_2))

then

printf "P2"

else

printf $i

fi

printf " "

if (($i%10 == 0))

then

echo -e

fi

done

printf "Player 2 is at position: "

echo $player\_2

printf "\n"

done

Screenshots

Text

Description automatically generated

Text

Description automatically generated

A screenshot of a computer

Description automatically generated