

Jain\_Ishaan\_ACSL\_C4.py

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1 inp_file = open("test-jr.txt", "r")
2 inp_list = []
3
4 primenum= [2,3,5,7,11,13,17,19,23,29,31,37,41,43,47]
5 persquare = [4,9,16,25,36,49]
6 for line in inp_file.readlines():
7     end=False
8     userinp = line[:len(line)].strip("\n").split()
9     currloc = int(userinp[3])
10    numdice = int(userinp[4])
11    j = 5
12    rolls=[]
13    for i in range(numdice):
14        rolls.append(int(userinp[j]))
15        j+=1
16    board=[" "]*52
17    for i in range(len(board)):
18        if i+1 == int(userinp[0]):
19            board[i]="X"
20        if i+1 == int(userinp[1]):
21            board[i]="X"
22        if i+1 == int(userinp[2]):
23            board[i]="X"
24
25    for i in range(len(rolls)):
26        if board[currloc + rolls[i]-1] != "X":
27            currloc += rolls[i]
28
29        if currloc == 52:
30            print("GAME OVER")
31            end=True
32            break
33        elif currloc in primenum:
34            for j in range(1,7):
35                if board[currloc] != "X":
36                    currloc+= 1
37        elif currloc in persquare:
38            for j in range(1,7):
39                if board[currloc - 2] != "X" and currloc>0 and currloc-1>0:
40                    currloc-= 1
41        elif currloc not in persquare and currloc not in primenum and board[currloc-1]!="X":
42            current=currloc
43            pass1=[]
44            block=[7,12,17,22,27,35,40,45,50]
45            orig = current - rolls[i]+1
46            for j in range(rolls[i]+1):
47                pass1.append(current-rolls[i])
48                current+=1
49            current=currloc
50            multiples = []
51            for x in range(len(pass1)):
52                try:
53                    if rolls[i]>1:
54                        if pass1[x] in block and pass1[x-1] == pass1[x]-1 and pass1[x+1] ==pass1[x]+1 and x>=0 and x<rolls[i]:
55                            for a in range(52):
56                                multiples.append(a*rolls[i])
57                            for b in multiples:
58                                if board[b-1] != "X" and b in pass1:
59                                    currloc = b
60                                    break
61                                elif board[b-1] == "X" and b in pass1 :
62                                    currloc-=rolls[i]
63                            else:
64                                continue
65                            except IndexError:
66                                pass
67            if end!=True:
68                print(currloc)
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