

## Sesetty\_Anjan\_C4\_Patolli.py

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1  from math import sqrt
2  file = open("test-jr.txt", "r")
3  def isSpecial(number):
4      prime=True
5      for i in range(2,number):
6          if number%i==0:
7              prime=False
8              break
9      if prime:
10         return "prime"
11     if sqrt(number)==int(sqrt(number)) and number>4:
12         return "square"
13     return "none"
14 allTurns = [6,11,16,21,26,34,39,44,49]
15 for line in file.readlines():
16     gameInformation=[int(element) for element in line.split()]
17     opponentMarkers = gameInformation[:3]
18     start = gameInformation[3]
19     moves = gameInformation[5:]
20     for move in moves:
21         orig = start
22         start+=move
23         if start in opponentMarkers:
24             start-=move
25             continue
26         if isSpecial(start)=="prime":
27             for i in range(6):
28                 if start+1 not in opponentMarkers:
29                     start+=1
30                 else: break
31         elif isSpecial(start)=="square":
32             for i in range(6):
33                 if start-1 not in opponentMarkers:
34                     start-=1
35                 else: break
36         else:
37             turna = False
38             for turn in allTurns:
39                 if orig<=turn and start>=turn+2:
40                     turna = True
41             if turna:
42                 turned = False
43                 for i in range(start,orig-1,-1):
44                     if i%move==0 and i not in opponentMarkers:
45                         start=i
46                         turned=True
47                         break
48                 if not turned: start=orig
49             if start>52: start = orig
50     if start==52: print("GAME OVER")
51     else: print(start)
52
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