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prime = [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47]
perfectSquare = [9, 16, 25, 36, 49]
hmove = [7, 12, 17, 22, 27, 35, 40, 45, 50]
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def main(input):
    inputsplit = input.split(" ")
    opponents = [int(inputsplit[0]), int(inputsplit[1]), int(inputsplit[2])]
    position = int(inputsplit[3])
    rolls = []
    gameover = False
    for x in range(int(inputsplit[4])):
        rolls.append(int(inputsplit[x + 5]))
    for roll in rolls:
        if position + roll not in opponents and roll + position <= 52:
            if roll + position == 52:
                print("GAMEOVER")
                gameover = True
                break
            elif roll + position in prime:
                position = position + roll
                for x in range(6):
                    if position + 1 in opponents:
                        break
                    position = position + 1
            elif roll + position in perfectSquare:
                position = position + roll
                for x in range(6):
                    if position - 1 in opponents:
                        break
                position = position - 1
            else:
                wasHmove = False
                for edge in hmove:
                    if position < edge and position + roll > edge:
                        tempPosition = (position + roll) - (position + roll)%roll
                        while tempPosition in opponents:
                            tempPosition = position - roll
                        if tempPosition > position:
                            position = tempPosition
                        wasHmove = True
                        break
                if not wasHmove:
                    position = position + roll
    if not gameover:
        print(position)

with open('text.txt') as fp:
    for i in range(0,5):
        Input = fp.readline()
        main(Input)
```