```
# import the required modules
 2
    import random
 3
    import statistics
 4
 5
    # spider object
 6
    class spider:
7
         # init function
8
         def __init__(self, x, y):
9
             self.x = x
10
             self.y = y
11
         # move function
12
         def move(self):
13
             # choose either 1, 2 or 3
14
             choice = random.randrange(1, 4)
             # x clockwise
15
16
             if choice == 1:
17
                 self.x += 1
                 if self.x == 5:
18
                     self.x = 1
19
20
             # x anti-clockwise
21
             elif choice == 2:
22
                 self.x -= 1
23
                 if self.x == 0:
24
                     self.x = 4
25
             # y up/down
26
             elif choice == 3:
27
                 self.y += 1
28
                 if self.y == 2:
                     self.y = 0
29
30
31
    # fly object
32
    class fly:
         # init function
33
34
         def __init__(self, x, y):
35
             self.x = x
36
             self.y = y
37
38
    # run function
39
    def run(s, f):
40
         # set up variables
41
         found = False
42
         moves = 0
43
         # program Loop
44
         while found == False:
             # move spider
45
46
             s.move()
47
             # increment variable
48
             moves += 1
49
             # check if spider found fly
             if s.x == f.x and s.y == f.y:
50
51
                 found = True
52
         # return amount of moves required
53
         return moves
54
55
    # main function
    def main():
56
57
         # set up variables
58
         moves = []
59
         limit = int(input("Enter the number of simulations: "))
60
         # program Loop
61
         for i in range(limit):
62
             # set up objects
63
             s = spider(2, 1)
             f = fly(4, 0)
64
65
             # process a simulation
66
             num = run(s, f)
67
             # change variables
             moves.append(num)
68
         # calculate required values
69
```