

Assignment 7

The due date for submitting this assignment has passed.

Due on 2020-03-18, 23:59 IST.

Assignment submitted on 2020-03-17, 21:17 IST

Predict the output

1 point

```
1 l=[[1,2,3],[4,5,6],[7,8,9]]
2 f=1
3 for j in range(3):
4     if(f==1):
5         for i in range(3):
6             print(l[i][j],end=" ")
7             f=0
8     if(f==0):
9         for i in range(2,-1,-1):
10            print(l[i][j],end=" ")
11            f=1
```

- ☐ 7 4 1 1 4 7 2 5 8 8 5 2 3 6 9 9 6 3
- ☐ 1 4 7 2 5 8 3 6 9
- ☐ 1 4 7 8 5 2 3 6 9
- ☐ 1 4 7 7 4 1 2 5 8 8 5 2 3 6 9 9 6 3

Yes, the answer is correct.

Score: 1

Accepted Answers:

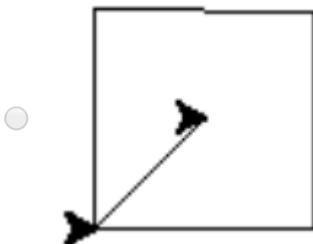
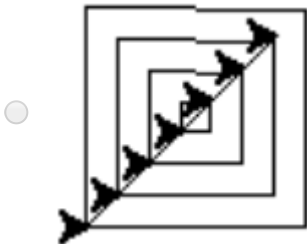
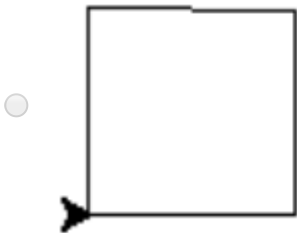
1 4 7 7 4 1 2 5 8 8 5 2 3 6 9 9 6 3

Predict the output of the calling function func1() for a given square matrix mx of dimension 70 × 70. **1 point**

```

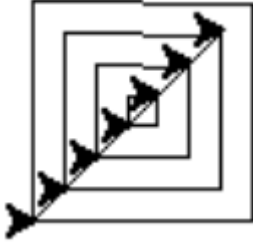
1 def func(mx, i):
2     tur = turtle.Turtle()
3     tur.setpos(i, i)
4
5     for ind in range(i, n-i):
6         tur.goto(i, ind)
7     for ind in range(i+1, n-i):
8         tur.goto(i, n-1-i)
9     for ind in range(n-2-i, i, -1):
10        tur.goto(n-1-i, ind)
11    for ind in range(n-i-1, i, -1):
12        tur.goto(ind, i)
13
14 def func1(mx):
15     n=len(mx)
16     i=0
17     while (i <=n-1):
18         func(mx, i)
19         i=i+10
20

```



No, the answer is incorrect.
Score: 0

Accepted Answers:

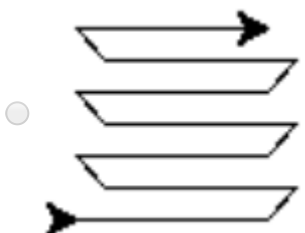
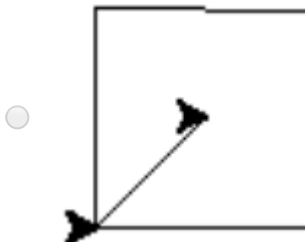
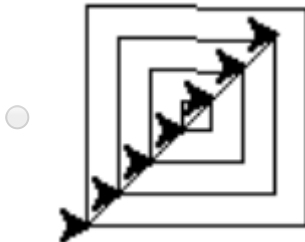
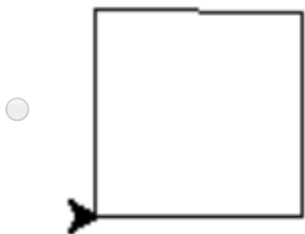


Predict the output of the calling function `func()` for a given square matrix `mx` of dimension 70×70 . **0 points**

```

1 def func(mx):
2     func1(mx,0)
3     tur = turtle.Turtle()
4     tur.setpos(0,0)
5     if ((len(mx))%2==1):
6         turtle.goto(int(len(mx)/2),int(len(mx)/2))
7     else:
8         second=int(len(mx)/2)
9         turtle.goto(second-1,second-1)
10        turtle.goto(second-1,second)
11        turtle.goto(second,second-1)
12        turtle.goto(second,second)
13

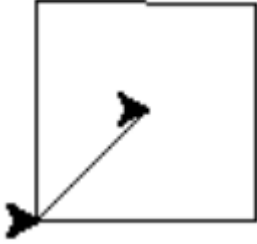
```



Yes, the answer is correct.

Score: 0

Accepted Answers:



Which of the following libraries is required to work with Google maps in Python?

1 point

- ☐ gplot
- ☐ googleplot
- ☐ gmpplot
- ☐ none of these

Yes, the answer is correct.

Score: 1

Accepted Answers:

gmpplot

Which of the following codes represent a correct version of a board game where the user has to move from block 1 to block 100? **1 point**

The game initialises only when the user gets a 1 or 6 on the dice and ends once he reaches 100 or gets a number which makes him reach beyond 100 (i.e. the player wins if he is at 99 and gets a 4).

☐

```

1 import random
2 def play(psn):
3     r = random.randint(1,6)
4     if (psn==0):
5         if (r==1 or r==6):
6             psn=1
7         else:
8             psn=psn+r
9     print("Position=",psn)
10    if (psn>=100):
11        print("You won")
12        return
13    play(psn)
14    position=0
15    print("Position=",position)
16    play(position)

```



```
1 import random
2
3 def play(psn):
4
5     r = random.randint(1,6)
6     print("Dice rolled:",r)
7     if(psn==0):
8         if(r==1 or r==6):
9             psn=1
10        else:
11            psn=psn+r
12        print("Position=",psn)
13        if(psn>=100):
14            print("You won")
15            return
16    play(psn)
17
18
19 position=0
20 print("Position=",position)
21 play(position)
```



```
1 import random
2
3 def play(psn):
4
5     r = random.randint(1,6)
6     print("Dice rolled:",r)
7     input()
8     if(psn==0):
9         if(r==1 or r==6):
10            psn=1
11        else:
12            psn=psn+r
13        print("Position=",psn)
14        if(psn>=100):
15            print("You won")
16
17    play(psn)
18
19
20 position=0
21 print("Position=",position)
22 play(position)
```

```

1 import random
2
3 def play (psn):
4
5     print ("Dice rolled:" ,2)
6     if (psn==0):
7         psn=1
8     else:
9         psn=psn+2
10    print ("Position=" ,psn)
11    if (psn>=100):
12        print ("You won")
13
14    play (psn)
15 position=0
16 print ("Position=" ,position)
17 play (position)

```

Yes, the answer is correct.

Score: 1

Accepted Answers:

```

1 import random
2
3 def play (psn):
4
5     r = random.randint (1,6)
6     print ("Dice rolled:" ,r)
7     if (psn==0):
8         if (r==1 or r==6):
9             psn=1
10    else:
11        psn=psn+r
12    print ("Position=" ,psn)
13    if (psn>=100):
14        print ("You won")
15        return
16    play (psn)
17
18
19 position=0
20 print ("Position=" ,position)
21 play (position)

```

Imagine a single player snakes and ladders game. The code below represents

1 point

```

1 import random
2
3 def play(psn):
4     snake_begin=-1
5     snake_end=-1
6     while(snake_begin <= snake_end):
7         snake_begin=random.randint(1,99)
8         snake_end=random.randint(1,99)
9     print("Snake from",snake_begin,"to",snake_end)
10    r = random.randint(1,6)
11    print("Dice rolled:",r)
12    if(psn==0):
13        if(r==1 or r==6):
14            psn=1
15    else:
16        psn=psn+r
17    print("Position=",psn)
18    input()
19    if(psn==snake_begin):
20        print("Bitten by snake")
21        psn=snake_end
22    if(psn>=100):
23        print("You won")
24        return
25    play(psn)
26
27 position=0
28 print("Position=",position)
29 play(position)

```

- ☐ A snakes and ladders game with one snake whose position remains constant while the player is playing. The position also remains the same during any subsequent plays (i.e. the game board does not change while you sleep and play again the next day).
- ☐ A snakes and ladders game with one snake whose position remains constant while the player is playing. However, the position can change during any subsequent plays (i.e. the game board might change while you sleep and play again the next day).
- ☐ A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snakes keep moving). Further, the snake can bite you any number of times.
- ☐ A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snake keeps moving). Further, the snake can bite you only ones when you play.

Yes, the answer is correct.

Score: 1

Accepted Answers:

A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snakes keep moving). Further, the snake can bite you any number of times.

Imagine a single player snakes and ladders game. The code below represents

1 point

```

1 import random
2
3 def play(psn, flag):
4     snake_begin=-1
5     snake_end=-1
6     while(snake_begin <= snake_end):
7         snake_begin=random.randint(1,99)
8         snake_end=random.randint(1,99)
9     print("Snake from", snake_begin, "to", snake_end)
10    r = random.randint(1,6)
11    print("Dice rolled:", r)
12    if (psn==0):
13        if (r==1 or r==6):
14            psn=1
15    else:
16        psn=psn+r
17    print("Position=", psn)
18    #input()
19    if (psn==snake_begin and flag==0):
20        print("Bitten by snake")
21        psn=snake_end
22        flag=1
23    if (psn>=100):
24        print("You won")
25        return
26    play(psn, flag)
27
28 position=0
29 print("Position=", position)
30 play(position, 0)

```

- ☐ A snakes and ladders game with one snake whose position remains constant while the player is playing. The position also remains the same during any subsequent plays (i.e. the game board does not change while you sleep and play again the next day).
- ☐ A snakes and ladders game with one snake whose position remains constant while the player is playing. However, the position can change during any subsequent plays (i.e. the game board might change while you sleep and play again the next day).
- ☐ A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snakes keep moving). Further, the snake can bite you any number of times.
- ☐ A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snake keeps moving). Further, the snake can bite you only ones when you play.

No, the answer is incorrect.

Score: 0

Accepted Answers:

A snakes and ladders game with one snake where the snake can change its position during the game and also during any subsequent plays (a board game where the snake keeps moving). Further, the snake can bite you only ones when you play.

Assuming that the play1() function implements the recursive play of snakes and ladders with the **1 point** prespecified position of the snake and the ladder as shown in the code below, which of the ambiguities in the options can result in the code? Kindly assume a typical snakes and ladders game.


```

1 import random
2 def play(psn):
3     snake_begin=-1
4     snake_end=-1
5     while(snake_begin <= snake_end):
6         snake_begin=random.randint(1,99)
7         snake_end=random.randint(1,99)
8     ladder_begin=-1
9     ladder_end=-1
10    while(ladder_end <= ladder_begin):
11        ladder_begin=random.randint(1,99)
12        ladder_end=random.randint(1,99)
13    play1(psn, snake_begin, snake_end, ladder_begin, ladder_end)

```

- ☐ snake_begin=snake_end
☐ ladder_begin=ladder_end
☐ ladder_begin=snake_begin
☐ ladder_end=snake_end

No, the answer is incorrect.

Score: 0

Accepted Answers:

ladder_begin=snake_begin

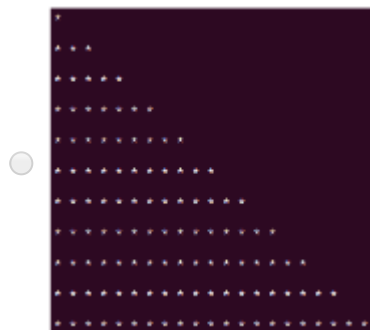
What is the output of the following code?

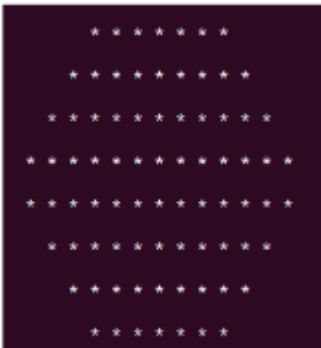
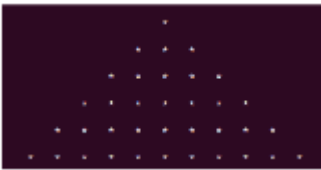
0 points

```

1 import random
2 def play(psn):
3     snake_begin=-1
4     snake_end=-1
5     while(snake_begin <= snake_end):
6         snake_begin=random.randint(1,99)
7         snake_end=random.randint(1,99)
8     ladder_begin=-1
9     ladder_end=-1
10    while(ladder_end <= ladder_begin):
11        ladder_begin=random.randint(1,99)
12        ladder_end=random.randint(1,99)
13    play1(psn, snake_begin, snake_end, ladder_begin, ladder_end)

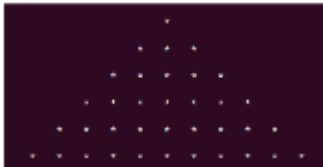
```





No, the answer is incorrect.
Score: 0

Accepted Answers:



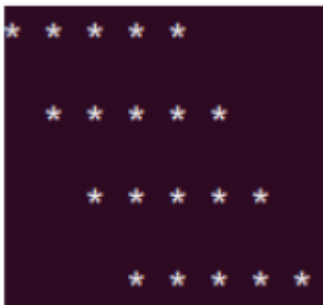
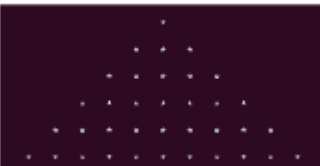
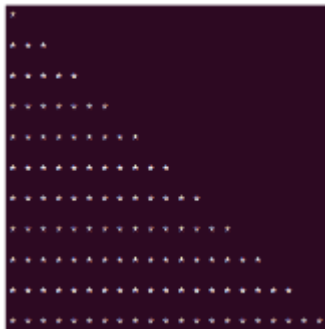
What is the output of the following code?

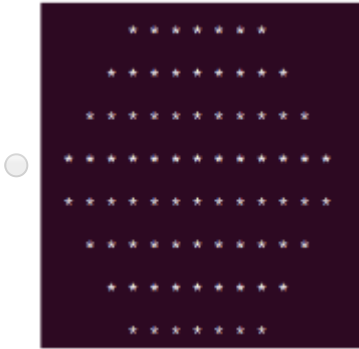
1 point

```

1
2 def func():
3     print()
4     c=10
5     i=3
6     while(i <=6):
7         j=0
8         while(j <=20):
9             if(j >=10-i and j <=10+i):
10                print('*',end=" ")
11            else:
12                print(' ',end=" ")
13            j=j+1
14        print('\n')
15        i=i+1
16    i=6
17    while(i >=3):
18        j=0
19        while(j <=20):
20            if(j >=10-i and j <=10+i):
21                print('*',end=" ")
22            else:
23                print(' ',end=" ")
24            j=j+1
25        print('\n')
26        i=i-1
27    func()

```





Yes, the answer is correct.

Score: 1

Accepted Answers:

