

Question 1:

Guess the output of this program:

```
1. graph = {1:5, 5:3, 3:2, 2:-1}
2.
3. steps = 0
4. start = 1
5. while start != -1:
6.     start = graph[start]
7.     steps += 1
8.
9. print(steps)
```

Error

1

2

3

4

5

Runs forever

Question 2:

Guess the output of this program:

```
1. my_str = 'za'
2. my_lst = [5, 2, 3]
3.
4. dct = {
5.     1:my_str,
6.     2:my_lst
7. }
8. my_lst.sort()
9. my_str = ''.join(sorted(my_str))
10.
11. print(dct)
```

{1: 'az', 2: [2, 3, 5]}

{1: 'za', 2: [2, 3, 5]}

{1: 'za', 2: [5, 2, 3]}

Error

string is reassigned. Not affecting old str. list is changed in-place

Question 3:

Guess the output of this program:

```
1. dct = {
2.     1:[5, 2, 3],
3.     2:[-2, 12, 3]
4. }
5. for value in dct.values():
```

```
6.     value.sort()
7.
8. print(dct)
```

Error

{1: [5, 2, 3], 2: [-2, 12, 3]}

{1: [2, 3, 5], 2: [-2, 3, 12]}

Question 4:

Guess the output of this program:

```
1. dct = {
2.     [2, 3] : 10,
3. }
4.
5. print(dct([2, 3]))
```

Error

10

Question 5:

Guess the output of this program:

```
1. dct = {
2.     (2, 3) : 10,
3.     30: 70
4. }
5.
6. k = 2, 3,
7. dct[k] += 20
8. print(dct[dct[k]])
```

Error

30

70

10

Question 6:

Guess the output of this program:

```
1. dct = {
2.     1:5,
3.     2:7,
4.     3:10
5. }
6.
7. print(dct[-1])
```

3

10

Error

Question 7:

```
1. dct = {  
2.     1:5,  
3.     2:7,  
4.     3:10  
5. }  
6.  
7. del dct  
8. print(dct)
```

UnboundLocalError: local variable 'dct' referenced before assignment

NameError: name 'dct' is not defined

Question 8:

Guess the output of this program:

```
1. def f():  
2.     dct = {  
3.         1:5,  
4.         2:7,  
5.         3:10  
6.     }  
7.  
8.     del dct  
9.     print(dct)  
10.  
11. f()
```

UnboundLocalError: local variable 'dct' referenced before assignment

NameError: name 'dct' is not defined

Question 9:

The .clear method in a dictionary object clear all keys and free the value's memory

True

False

In python, we can't clear values from memory. We only unbind the name/value. Garbage collector cleans automatically at some point.

Question 10:

Neither a list nor another dictionary can be used as a dictionary key

True

False

Question 11:

Guess the output of this program:

```
1. dct = {  
2.     1:5,  
3.     2:7,  
4.     3:'mostafa'  
5. }  
6.  
7. print(dct[3][3].upper())
```

t

T

s

S

Error

Question 12:

Guess the output of this program:

```
1. dct = {  
2.     1: 'mostafa',  
3.     2: 'saad',  
4. }  
5.  
6. print(f"Hi {dct[1]} {dct[2]}.")
```

Error

Hi mostafa saad.

Hi {dct[1]} {dct[2]}.

Question 13:

Guess the output of this program:

```
1. dct = {  
2.     int: [6, 9, 10],  
3.     float : 10  
4. }  
5. print(dct[type(float)])
```

Error

10

It should be: print(dct[float])

Question 14:

Guess the output of this program:

```
1. dct = {  
2.     1: [6, 9, 10],  
3.     3 : 10  
4. }  
5.  
6. dct.setdefault(3, 5)  
7. dct.setdefault(7, 5)  
8. print(dct[3] + dct[7])
```

10

15

Error