



# 98-381<sup>Q&As</sup>

Introduction to Programming Using Python

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### QUESTION 1

You are writing code that generates a random integer with a minimum value of 5 and a maximum value of 11. Which two functions should you use? Each correct answer presents a complete solution. (Choose two.)

- A. `random.randint(5, 12)`
- B. `random.randint(5, 11)`
- C. `random.randrange(5, 12, 1)`
- D. `random.randrange(5, 11, 1)`

Correct Answer: BC

References: <https://docs.python.org/3/library/random.html#>

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### QUESTION 2

#### HOTSPOT

You work for a company that distributes media for all ages.

You are writing a function that assigns a rating based on a user's age. The function must meet the following requirements:

Anyone 18 years old or older receives a rating of "A"

Anyone 13 or older, but younger than 18, receives a rating of "T"

Anyone 12 years old or younger receives a rating of "C"

If the age is unknown, the rating is set to "C"

You need to complete the code to meet the requirements.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:



## Answer Area

```
def get_rating(age):
```

```
    rating = ""
```

```
    if
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    elif
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    else
```

```
        age < 13: rating = "C"
```

```
        age < 18: rating = "T"
```

```
        : rating = "A"
```

```
        age == None: rating = "C"
```

```
    return rating
```



Correct Answer:



# Answer Area

```
def get_rating(age):
```

```
    rating = ""
```

```
    if 
       
       
       
```

```
    elif 
         
         
         
```

```
    elif 
         
         
         
```

```
    else 
         
         
         
```

```
    return rating
```



References: <https://www.w3resource.com/python/python-if-else-statements.php>

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### QUESTION 3

#### HOTSPOT

You are developing a Python application for your company.

You write the following code:

```
numList = [1,2,3,4,5]
alphaList = ["a","b","c","d","e"]
print(numList is alphaList)
print(numList == alphaList)
numList = alphaList
print(numList is alphaList)
print(numList == alphaList)
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:



### Answer Area

What is displayed after the first print?

	▼
True	
False	

What is displayed after the second print?

	▼
True	
False	

What is displayed after the third print?

	▼
True	
False	

What is displayed after the fourth print?

	▼
True	
False	

Correct Answer:





## Answer Area

What is displayed after the first print?

	▼
True	
False	

What is displayed after the second print?

	▼
True	
False	

What is displayed after the third print?

	▼
True	
False	

What is displayed after the fourth print?

	▼
True	
False	

### QUESTION 4

DRAG DROP

You are writing a Python program to perform arithmetic operations.

You create the following code:

```
a = 11  
b = 4
```

What is the result of each arithmetic expression? To answer, drag the appropriate expression from the column on the left to its result on the right. Each expression may be used once, more than once, or not at all.

Select and Place:





### Results

```
print(a / b)
print(a // b)
print(a % b)
```

### Answer Area

2	<input type="text"/>
3	<input type="text"/>
2.75	<input type="text"/>

Correct Answer:

### Results

```



```

### Answer Area

2	<input type="text" value="print(a // b)"/>
3	<input type="text" value="print(a % b)"/>
2.75	<input type="text" value="print(a / b)"/>

### QUESTION 5

You are creating a Python program that shows a congratulation message to employees on their service anniversary.

You need to calculate the number of years of service and print a congratulatory message.

You have written the following code. Line numbers are included for reference only.

```
01 start = input("How old were you on your start date?")
02 end = input("How old are you today?")
03
```

You need to complete the program.

Which code should you use at line 03?

- A. `print("Congratulations on" + (int(end)-int(start)) + "years of service!")`
- B. `print("Congratulations on" + str(int(end)-int(start)) + "years of service!")`



C. `print("Congratulations on" + int(end - start) + "years of service!")`

D. `print("Congratulations on" + str(end - start)) + "years of service!")`

Correct Answer: B

int must be converted to string

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