98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

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 [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
```

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

QUESTION 2

HOTSPOT

You create a function to calculate the power of a number by using Python.

You need to ensure that the function is documented with comments.

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

```
01 # The calc_power function calculates exponents
02 # x is the base
03 # y is the exponent
04 # The value of x raised to the y power is returned
05 def calc_power(x, y):
06    comment = "#Return the value"
07    return x**y # raise x to the y power
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

Answer Area

	Yes	No
Lines 01 through 04 will be ignored for syntax checking.	○	○
The pound sign (#) is optional for lines 02 and 03.	○	○
The string in line 06 will be interpreted as a comment.	○	○
Line 07 contains an inline comment.	○	○

Correct Answer:

Answer Area

	Yes	No
Lines 01 through 04 will be ignored for syntax checking.	◉	○
The pound sign (#) is optional for lines 02 and 03.	○	◉
The string in line 06 will be interpreted as a comment.	○	◉
Line 07 contains an inline comment.	○	◉

QUESTION 3

This question requires that you evaluate the underlined text to determine if it is correct.

You write the following code:

```
import sys
try:
    file_in = open("in.txt", 'r')
    file_out = open("out.txt", 'w+')
except IOError:
    print('cannot open', file_name)
else:
    i = 1
    for line in file_in:
        print(line.rstrip())
        file_out.write("line " + str(i) + ": " + line)
        i = i + 1
    file_in.close()
    file_out.close()
```

The out.txt file does not exist. You run the code. The code will execute without error.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed

B. The code runs, but generates a logic error

C. The code will generate a runtime error

D. The code will generate a syntax error

Correct Answer: A

References: https://docs.python.org/2/library/exceptions.html

QUESTION 4

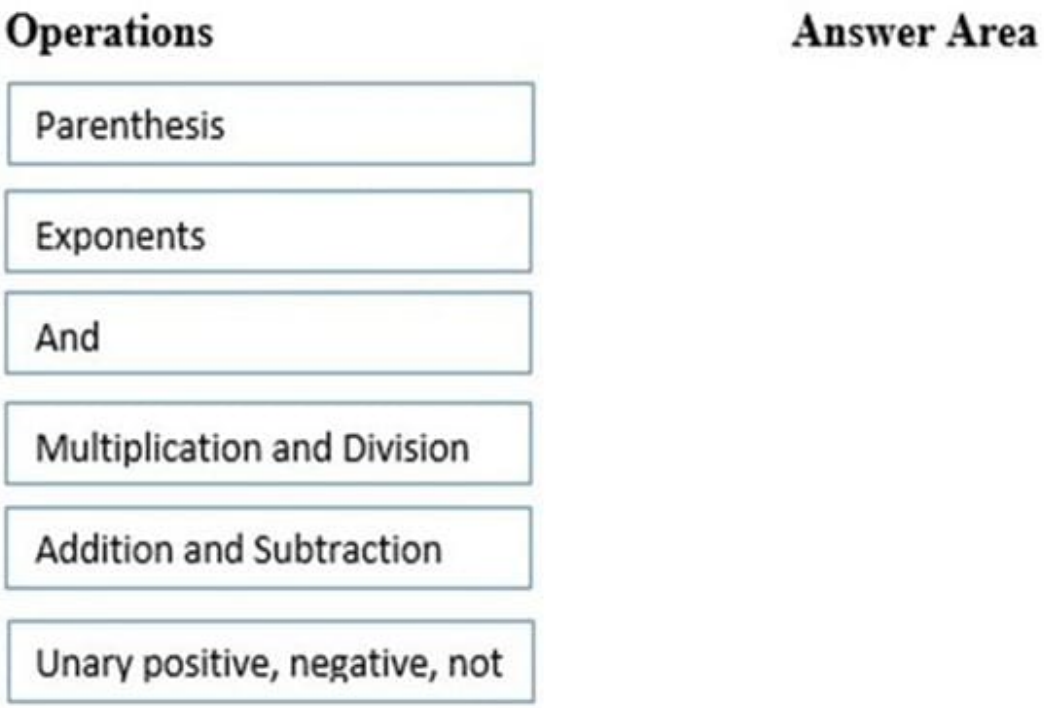
DRAG DROP

The ABC company is converting an existing application to Python. You are creating documentation that will be used by several interns who are working on the team.

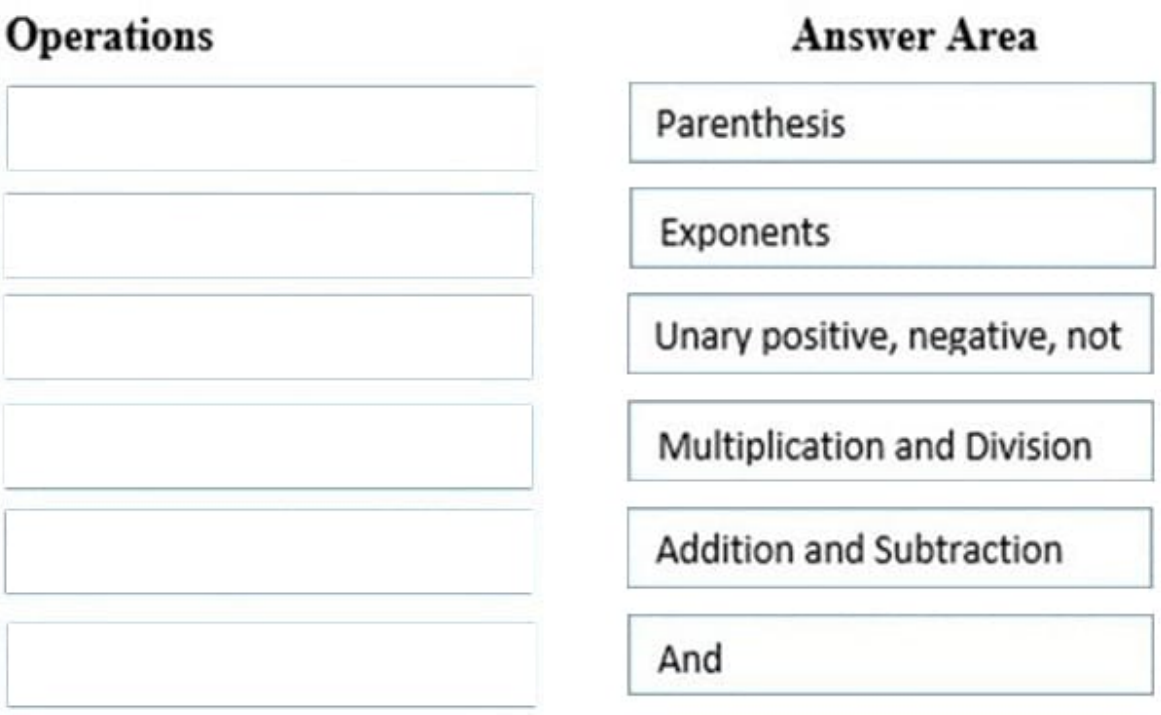
You need to ensure that arithmetic expressions are coded correctly.

What is the correct order of operations for the six classes of operations ordered from first to last in order of precedence? To answer, move all operations from the list of operations to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



References: http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html

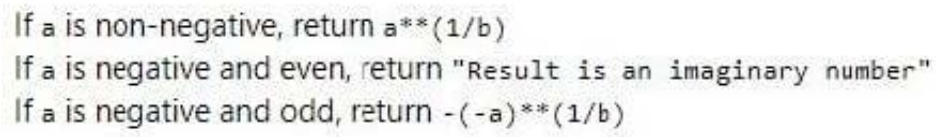
QUESTION 5

HOTSPOT

You are coding a math utility by using Python.

You are writing a function to compute roots.

The function must meet the following requirements:



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

Hot Area:

```
def safe_root(a, b):
```

if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = a**(1/b)
```

if a >= 0:
if a % 2 == 0:
else:
elif:

if a >= 0:
if a % 2 == 0:
else:
elif:

```
        answer = "Result is an imaginary number"
```

if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = -(-a)**(1/b)
return answer
```

Correct Answer:

```
def safe_root(a, b):
```

if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = a**(1/b)
```

if a >= 0:
if a % 2 == 0:
else:
elif:

if a >= 0:
if a % 2 == 0:
else:
elif:

```
        answer = "Result is an imaginary number"
```

if a >= 0:
if a % 2 == 0:
else:
elif:

```
    answer = -(-a)**(1/b)
return answer
```

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