



98-381^{Q&As}

Introduction to Programming Using Python

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**QUESTION 1****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:

If `a` is non-negative, return `a**(1/b)`

If `a` is negative and even, return "Result is an imaginary number"

If `a` is negative and odd, return `-(-a)**(1/b)`

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
```



QUESTION 2

The ABC company has hired you as an intern on the coding team that creates e-commerce applications.

You must write a script that asks the user for a value. The value must be used as a whole number in a calculation, even if the user enters a decimal value.

You need to write the code to meet the requirements.

Which code segment should you use?

- A. `totalItems = input("How many items would you like?")`
- B. `totalItems = float(input("How many items would you like?"))`
- C. `totalItems = str(input("How many items would you like?"))`
- D. `totalItems = int(input("How many items would you like?"))`

Correct Answer: B

References: <http://anh.cs.luc.edu/python/hands-on/3.1/handsonHtml/io.html>

QUESTION 3

You are writing an application that uses the `sqrt` function. The program must reference the function using the name `squareRoot`.

You need to import the function.

Which code segment should you use?

- A. `import math.sqrt as squareRoot`
- B. `import sqrt from math as squareRoot`
- C. `from math import sqrt as squareRoot`
- D. `from math.sqrt as squareRoot`

Correct Answer: C

References: <https://infohost.nmt.edu/tcc/help/pubs/python/web/import-statement.html>

QUESTION 4

You develop a Python application for your company.

A list named `employees` contains 200 employee names, the last five being company management. You need to slice the



list to display all employees excluding management.

Which two code segments should you use? Each correct answer presents a complete solution. (Choose two.)

- A. employees [1:-4]
- B. employees[:-5]
- C. employees [1:-5]
- D. employees [0:-4]
- E. employees [0:-5]

Correct Answer: BE

References: <https://www.w3resource.com/python/python-list.php#slice>

QUESTION 5

HOTSPOT

You develop a Python application for your company.

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

```
01 def main(a,b,c,d):  
02     value = a+b*c-d  
03     return value
```

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

Which part of the expression will be evaluated first?

<input type="text"/>
a+b
b*c
c*d

Which operation will be evaluated second?

<input type="text"/>
addition
subtraction

Which expression is equivalent to the expression in the function?

<input type="text"/>
(a+b) * (c-d)
(a + (b*c)) - d
a + ((b * c) - d)



Correct Answer:

Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c*d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

$(a+b) * (c-d)$
$(a + (b*c)) - d$
$a + ((b * c) - d)$

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