

Microsoft 98-388

Introduction to Programming Using Java

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Version: 9.0

Question: 1

HOTSPOT

You are writing a Java method named `safeRoot`. The method must meet the following requirements:

- Accept two `double` parameters `radicand` and `index`
- If `radicand` is negative and `index` is even, return `null`
- If `radicand` is negative and `index` is odd, return `-Math.pow(-radicand, 1 / index)`
- Otherwise, return `Math.pow(radicand, 1 / index)`

How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

```
public static double safeRoot(double radicand, double index) {  
    [ ] {  
        if (radicand >= 0) [ ]  
            if (index % 2 == 0) [ ]  
                [ ]  
            [ ]  
        [ ]  
    }  
    [ ] {  
        [ ]  
        return null;  
    }  
    [ ] {  
        return -Math.pow(-radicand, 1 / index);  
    }  
}
```

```

public static double safeRoot(double radicand, double index) {
    if (radicand >= 0)
        if (index % 2 == 0)
            return radicand, 1 / index);
    else if (index % 2 == 0)
    else if (radicand >= 0)
    else
        if (radicand >= 0)
        if (index % 2 == 0)
            return null;
    else if (index % 2 == 0)
    else if (radicand >= 0)
    else
        if (radicand >= 0)
        if (index % 2 == 0)
            return -Math.pow(-radicand, 1 / index);
}

```

Answer:

```

public static double safeRoot(double radicand, double index) {
    if (radicand >= 0)
        if (index % 2 == 0)
            return radicand, 1 / index);
    else if (index % 2 == 0)
    else if (radicand >= 0)
    else
        if (radicand >= 0)
        if (index % 2 == 0)
            return null;
    else if (index % 2 == 0)
    else if (radicand >= 0)
    else
        if (radicand >= 0)
        if (index % 2 == 0)
            return -Math.pow(-radicand, 1 / index);
}

```

Question: 2

HOTSPOT

You work as an intern Java programmer at Adventure Works. Your team lead asks you to create a method. The method must meet the following requirements:

- Accept an `int` array
- Check for duplicate values in the array
- Stop the outer loop as soon as a duplicate value has been detected and return `true`
- Return `false` if all values in the array are unique

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

a. NOTE: Each correct selection is worth one point.

```
public static boolean duplicate(int[] array) {  
  
    boolean isDuplicate = false;  
  
    for (   x++) {  
  
        for (int y = x + 1; y < array.length;  )  
  
            if (array[x] == array[y])  
  
                isDuplicate = true;  
  
        if (isDuplicate)  
  
              
  
    }  
  
    return isDuplicate;  
  
}
```

```

public static boolean duplicate(int[] array) {

    boolean isDuplicate = false;

    for (
        x = 0;
        x < array.length - 2;
        x < array.length - 1;
        x <= array.length;
        x <= array.length - 1;
        1; y < array.length;
        int x = 1;
        int x = 1;
        int x = 0;
        == array[y])
        isDuplicate = true;

    if (isDuplicate)
        break;
    switch;
    finally;
    continue;
    return isDuplicate;
}

```

Answer:

```

public static boolean duplicate(int[] array) {

    boolean isDuplicate = false;

    for (
        x = 0;
        x < array.length - 2;
        x < array.length - 1;
        x <= array.length;
        x <= array.length - 1;
        x++) {

        for (int y = x + 1; y < array.length;

            x = x + 1
            y++
            y = y - 1
            x--

            if (array[x] == array[y])

                isDuplicate = true;

            if (isDuplicate)

                break;
                switch;
                finally;
                continue;

        }

    return isDuplicate;

}

```

Question: 3

HOTSPOT

You are interviewing for a job as a Java developer. You need to demonstrate your understanding of switch statements.

For each of the following code segments, select Yes if the code segment can be changed to a switch statement with up to three case statements. Otherwise, select No.

NOTE: Each correct selection is worth one point.

	Yes	No
<pre>if (age >= 25) { discount = 0.50; } else if (age >= 21) { discount = 0.25; } else { discount = 0.0; }</pre>	☐	☐

<pre>if (grade == "A") { message = "Exceeds Standards"; } else if (grade == "B") { message = "Meets Standards"; } else { message = "Needs Improvement"; }</pre>	☐	☐
---	-----------------------	-----------------------

<pre>if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }</pre>	☐	☐
--	-----------------------	-----------------------

Answer:

	Yes	No
<pre>if (age >= 25) { discount = 0.50; } else if (age >= 21) { discount = 0.25; } else { discount = 0.0; }</pre>	☐	☐
<pre>if (grade == "A") { message = "Exceeds Standards"; } else if (grade == "B") { message = "Meets Standards"; } else { message = "Needs Improvement"; }</pre>	☐	☐
<pre>if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }</pre>	☐	☐

Question: 4

HOTSPOT

You need to evaluate the following code. Line numbers are included for reference only.

```
01 public static int fee(char model) {  
02     int price = 0;  
03     switch (model) {  
04         case 'A':  
05             price = 50;  
06             break;  
07         case 'T':  
08             price = 20;  
09         case 'C':  
10             price = 5;  
11             break;  
12         default:  
13             price = 100;  
14             break;  
15     }  
16     return price;  
17 }
```

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

What is the return value when `model` has a value of 'A'?

5
20
50
100

What is the return value when `model` has a value of 'T'?

5
20
50
100

What is the return value when `model` has a value of 'C'?

▼
5
20
50
100

What is the return value when `model` has any other value?

▼
5
20
50
100

Answer:

What is the return value when `model` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `model` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `model` has a value of 'C'?

	▼
5	
20	
50	
100	

What is the return value when `model` has any other value?

	▼
5	
20	
50	
100	

Question: 5

HOTSPOT

You are writing a Java method.

The method must meet the following requirements:

- Accept a `String` array named `entries`
- Iterate through `entries`
- Stop the iteration and return `false` if any element has more than 10 characters
- Otherwise, return `true`

Answer Area

```

public boolean validateEntries(String[] entries) {

    boolean allValidEntries = true;

    (String entry ( entries) {

        if (entry.length() > 10) {

            allValidEntries = false;

        }

    }

    return allValidEntries;

}

```

Answer Area

```

public boolean validateEntries(String[] entries) {

    boolean allValidEntries = true;

do for while (String entry ( entries) {

    if (entry.length() > 10) {

        allValidEntries = false;

        break;
        continue;
        goto;

    }

    return allValidEntries;

}

```

Answer:

```
public boolean validateEntries(String[] entries) {  
  
    boolean allValidEntries = true;  
  
    (String entry  
do  
for  
while  
entries) {  
  
        if (entry.length() > 10) {  
  
            allValidEntries = false;  
  
            break;  
continue;  
goto;  
        }  
    }  
  
    return allValidEntries;  
}
```


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