



Microsoft

98-388 Exam

Microsoft Introduction to Programming Using Java Exam

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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) [ ] Math.pow(radicand, 1 / index);  
        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 Math.pow(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 Math.pow(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 (int x = 0; x < array.length - 2; x++)
        for (int y = x + 1; y < array.length; y++)
            if (array[x] == array[y])
                isDuplicate = true;
    return isDuplicate;
}

```

Answer:

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```

public static boolean duplicate(int[] array) {

    boolean isDuplicate = false;

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

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

            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>	<input type="radio"/>	<input type="radio"/>
<pre>if (grade == "A") { message = "Exceeds Standards"; } else if (grade == "B") { message = "Meets Standards"; } else { message = "Needs Improvement"; }</pre>	<input type="radio"/>	<input type="radio"/>
<pre>if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }</pre>	<input type="radio"/>	<input type="radio"/>

Answer:

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

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 `mode1` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'C'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` 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;
    _____ (String entry _____ entries) {
        if (entry.length() > 10) {
            allValidEntries = false;
            _____
        }
    }
    return allValidEntries;
}
    
```

do
for
while

break;
continue;
goto;

instanceof

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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