

# **Microsoft**

## **98-388 Exam**

**Microsoft Introduction to Programming Using Java Exam**

**Questions & Answers  
Demo**

# Version: 9.0

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## Question: 1

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

    return isDuplicate;
}

```

---

**Answer:**

---

```

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 &gt;= 25) {   discount = 0.50; } else if (age &gt;= 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 &gt;= 3.0) {   priority = 2; } else if (gpa &gt;= 2.5) {   priority = 3; }</pre>	<input type="radio"/>	<input type="radio"/>

---

**Answer:**

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	Yes	No
<pre>if (age &gt;= 25) {     discount = 0.50; } else if (age &gt;= 21) {     discount = 0.25; } else {     discount = 0.0; }</pre>	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>
<pre>if (gpa == 4.0) {     priority = 1; } else if (gpa &gt;= 3.0) {     priority = 2; } else if (gpa &gt;= 2.5) {     priority = 3; }</pre>	<input checked="" type="radio"/>	<input type="radio"/>

---

**Question: 4**

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**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'?

  
  
  


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

  
  
  


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

  
  
  


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

  
  
  



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**Answer:**

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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

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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

instanceof

break;  
continue;  
goto;

---

**Answer:**

---

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