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Microsoft Introduction to Programming Using Java Exam

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DEMO VERSION (LIMITED CONTENT)

Questions & Answers

Version: 9.0

Question: 1

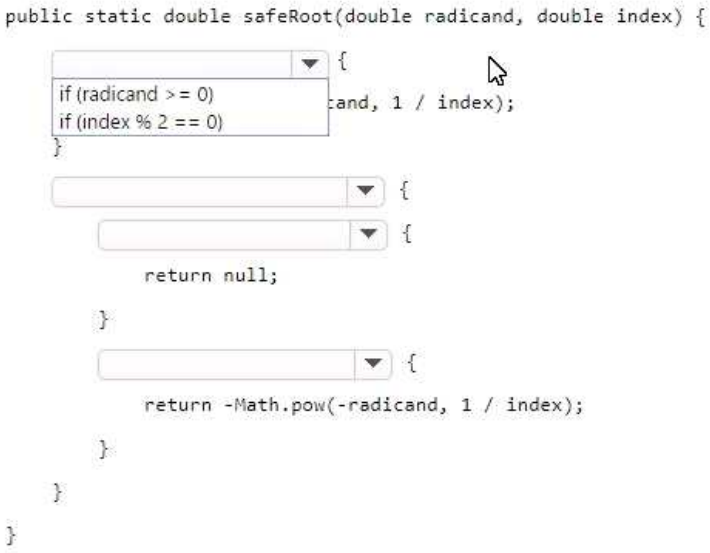
HOTSPOT

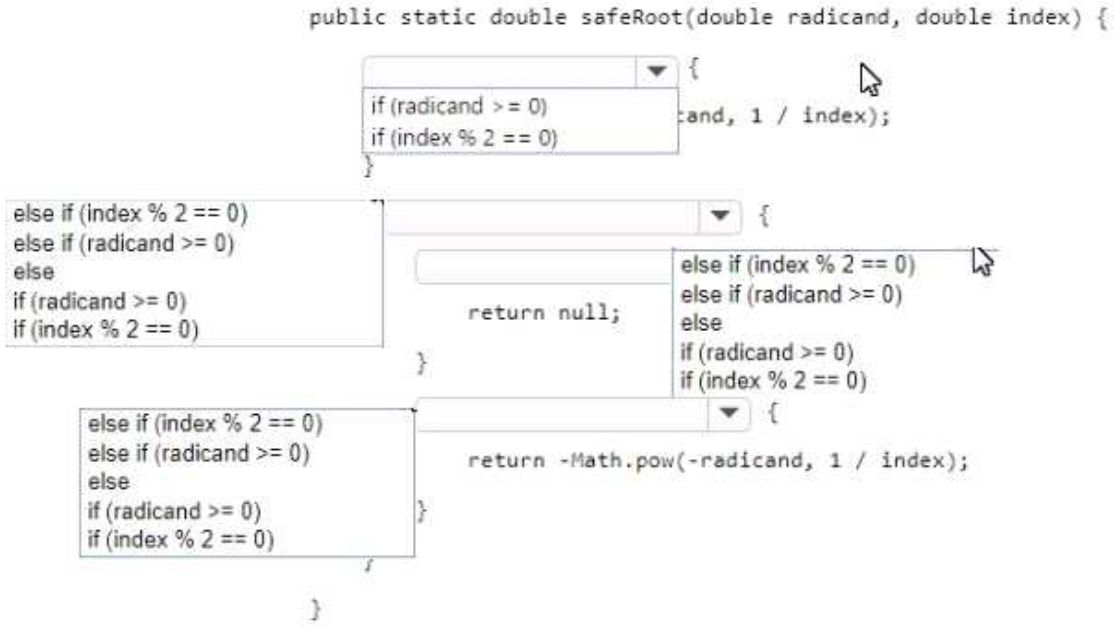
You are writing a Java method named safeRoot. The method must meet the following requirements:

- 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)`

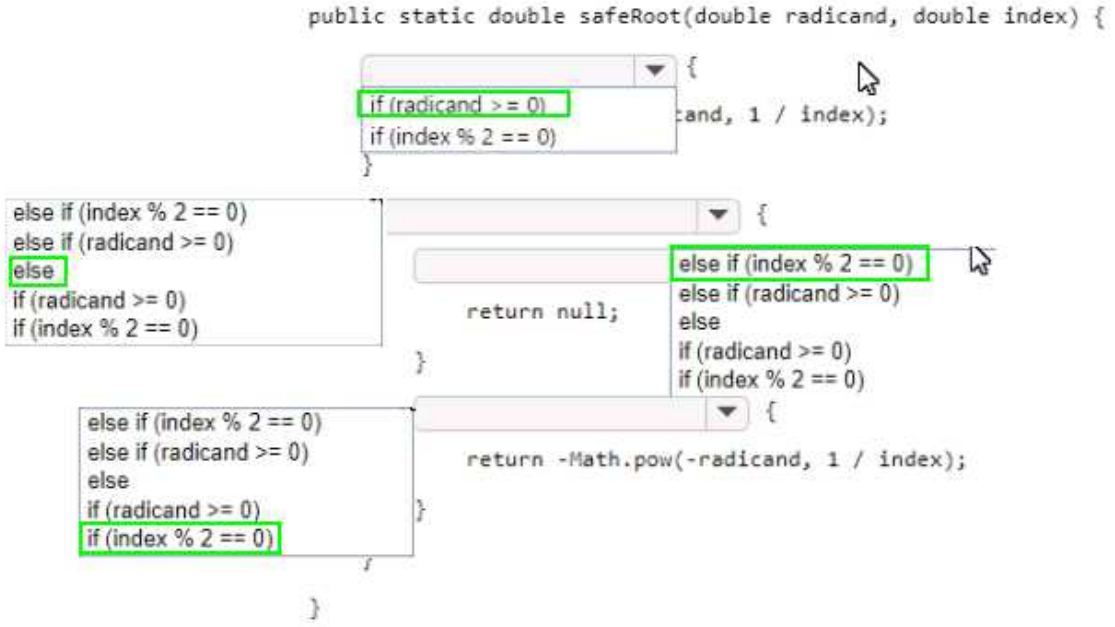
How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Answer Area





Answer:



Question: 2

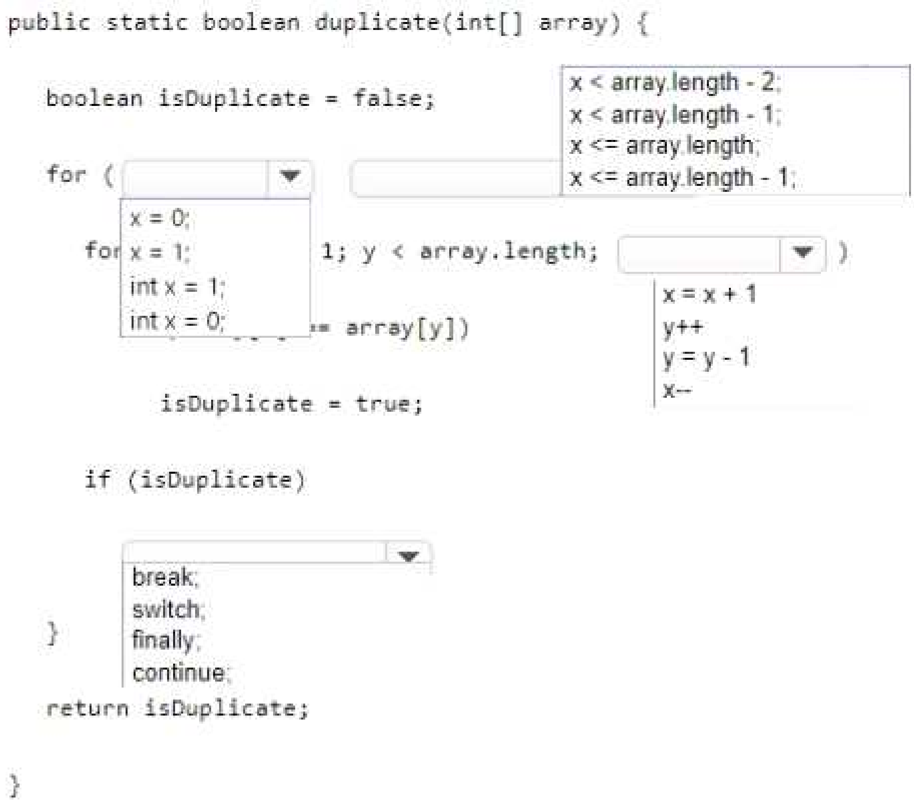
HOTSPOT
You work as an intern Java programmer at Adventure Works. Your team lead asks you to create a method. The method must meet the following requirements:

- 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;
x < array.length - 2;
x < array.length - 1;
x <= array.length;
x <= array.length - 1;
for (
x = 0;
x = 1;
int x = 1;
int x = 0;
1; y < array.length;
x = x + 1
y++
y = y - 1
x--
array[y])
isDuplicate = true;
if (isDuplicate)
break;
switch;
finally;
continue;
return isDuplicate;

Answer:

```
public static boolean duplicate(int[] array) {

  boolean isDuplicate = false;

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

    for (int y = x + 1; y < array.length; [▼] )
                                            x = x + 1
      if (array[x] == array[y])             y++
                                            y = y - 1
        isDuplicate = true;                 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
`if (age >= 25) { discount = 0.50; } else if (age >= 21) { discount = 0.25; } else { discount = 0.0; }`	○	○
`if (grade == "A") { message = "Exceeds Standards"; } else if (grade == "B") { message = "Meets Standards"; } else { message = "Needs Improvement"; }`	○	○
`if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }`	○	○

Answer:

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

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'`?

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?

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 [ ; / : / ++ / instanceof] entries) {
    if (entry.length() > 10) {
      allValidEntries = false;
      [ ]
    }
  }
  return allValidEntries;
}
```

[break; / continue; / goto;]

Answer:

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

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