

98-388

Introduction to Programming Using Java QUESTION & ANSWERS

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)

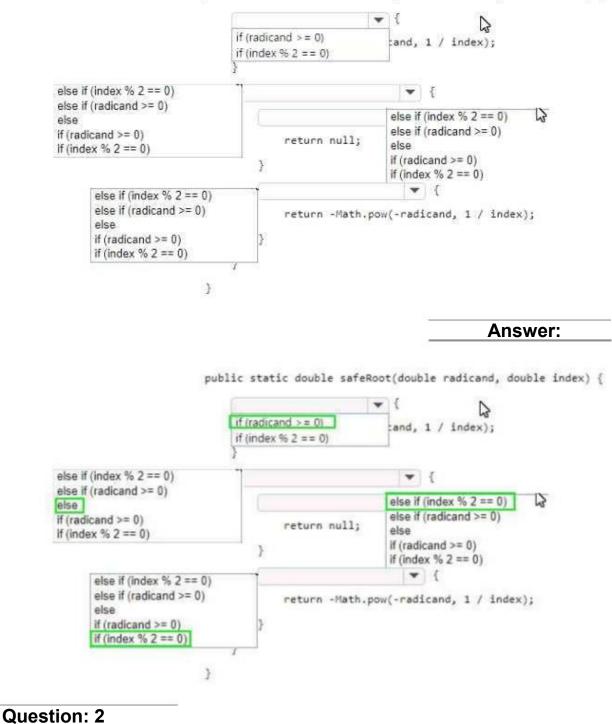
How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Answer Area

public static double safeRoot(double radicand, double index) {

1.0			i	23
	radicand > = 0)		cand,	1 / index);
) IT (index % 2 == 0)			
*: 				1 124
				£
	[-	ſ
	return null	i.		
		-)		
	}			
				} {
	return -Mat	th now	(-rad	icand, 1 / index)
	}			
¥.				

public static double safeRoot(double radicand, double index) {



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.

for (•		-	x++)
for (int	y = x + 1; y	/ < array.l	ength;	
if (ar	ray[x] == ar	ray[y])		
isD	uplicate = t	rue;		
if (isDup	licate)			
}				

```
x < array.length - 2;
   boolean isDuplicate = false;
                                               x < array.length - 1;
                                               x <= array.length;
   for (
                       *
                                              x <= array.length - 1;
          x = 0;
      for x = 1;
                          1; y < array.length;
                                                                 •)
          int x = 1;
                                                       x = x + 1
          int x = 0;
                         i= array[y])
                                                       y++
                                                       y = y - 1
                                                       X---
            isDuplicate = true;
      if (isDuplicate)
                              w
          break;
          switch;
   }
          finally;
          continue;
   return isDuplicate;
}
```

public static boolean duplicate(int[] array) {

Answer:

public static boolean duplicate(int[] array) {

```
boolean isDuplicate = false;
   for (
                                                              x++) {
                       v
                                                        -
                              x < array length - 2;
           x = 0
                              x < array length - 1;
           x = 1;
                              x <= array.length;
           int x = 1;
                              x <= array length - 1;
          int x = 0;
      for (int y = x + 1; y < array.length;
                                                                      1.5
                                                                   w
                                                     x = x + 1
                                                     y++
          if (array[x] -= array[y])
                                                     y = y - 1
                                                     X--
            isDuplicate = true;
      if (isDuplicate)
          break;
          switch:
          finally;
          continue:
   X
   return isDuplicate;
3
```

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.

```
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;
}
```

0

Yes

0

No

0

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>		0
<pre>if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }</pre>		٢

Question: 4

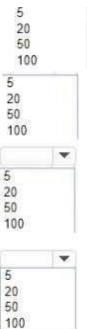
HOTSPOT

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

24.90		
01	<pre>public static int fee(char model)</pre>	ł
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?



Answer:

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	
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	v
5	
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100	
	-
5	
20	
50	
100	
8	-
5	
20	
50	
100	

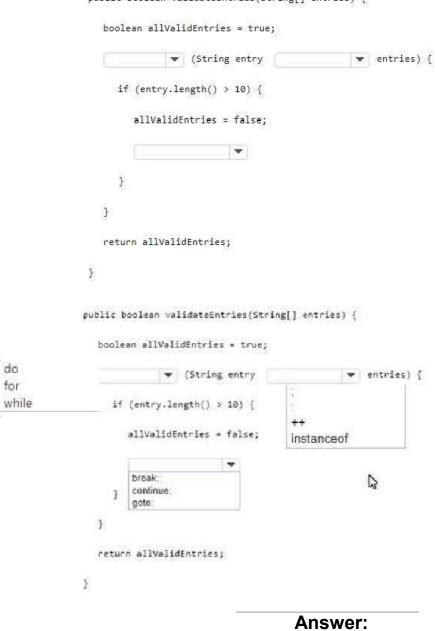
Question: 5

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

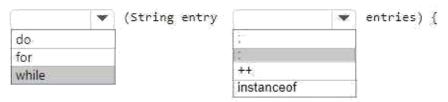
public boolean validateEntries(String[] entries) {



Answer Area

```
public boolean validateEntries(String[] entries) {
```

```
boolean allValidEntries = true;
```



if (entry.length() > 10) {

```
allValidEntries = false;
```

	break;	
	continue;	
	goto;	
}		
Į		
retur	n allValidEntr	ies;

}