Quiz Submissions - Arrays and Half-open Ranges Homework Quiz



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Retaken Attempt 2

Written: Jan 26, 2022 2:00 AM - Jan 26, 2022 2:01 AM

Submission View

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Question 1 Correct on previous attempt(s)

1 / 1 point

Say you have an array of values representing the hourly temperatures for one day. What function could you use to find the hour with the day's high temperature?

- ArrayUtils.count()
- ✓ ArrayUtils.maxElement()
 - ArrayUtils.find()

Question 2 Correct on previous attempt(s)

1 / 1 point

Say you have an array of values reprsenting exam scores for a class. What function could you use to find the number of students who scores exactly 100?

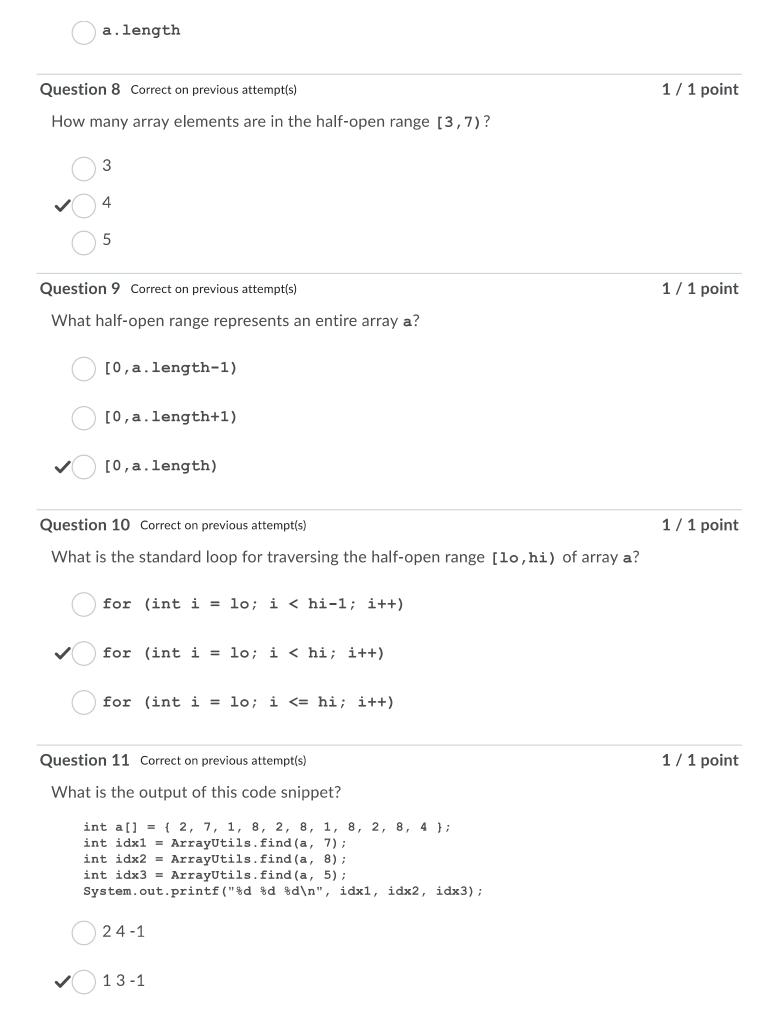
- ArrayUtils.maxElement()
- ArrayUtils.find()
- ✓ ArrayUtils.count()

→ Question 3 Retaken

1 / 1 point

Which of these formulas properly finds the midpoint of the half-open range [lo,hi)?

<pre>int mid = (lo + hi) / 2;</pre>	
<pre>int mid = hi / 2;</pre>	
Question 4 Correct on previous attempt(s)	1 / 1 point
Which of these formulas properly finds the one-third point of array a (that is that $[0,m1)$ comprises about one-third of the array)?	s, the index m1 such
<pre>int m1 = a.length * (1/3);</pre>	
<pre>int m1 = m1 / 3;</pre>	
<pre>✓ int m1 = a.length / 3;</pre>	
Question 5 Correct on previous attempt(s)	1 / 1 point
Which of these formulas properly finds the two-thirds point of array $\bf a$ (that that $[0,m2)$ comprises about two-thirds of the array)?	is, the index m2 such
<pre> ✓ int m2 = (a.length * 2) / 3;</pre>	
int $m2 = a.length * (2/3);$	
<pre>int m2 = (a.length / 3) * 2;</pre>	
Question 6 Correct on previous attempt(s)	1 / 1 point
What is the index of the first element of the half-open range [7,22)?	
O	
√ 7	
1	
Question 7 Correct on previous attempt(s)	1 / 1 point
What is the index of the last element of the half-open range [7,22)?	
√ 21	



Question 12 Correct on previous attempt(s)

1 / 1 point

What is the output of this code snippet?

```
int a[] = { 2, 7, 1, 8, 2, 8, 1, 8, 2, 8, 4 };
int n1 = ArrayUtils.count(a, 7);
int n2 = ArrayUtils.count(a, 8);
int n3 = ArrayUtils.count(a, 5);
System.out.printf("%d %d %d\n",n1, n2, n3);
```

- () 1 3 -1
- 828
- **✓**() 140

→ Question 13 Retaken

1 / 1 point

What is the output of this code snippet?

```
int a[] = { 12, 17, 11, 18, 12, 18, 11, 18, 12, 18, 14 };
int idx1 = ArrayUtils.find(a, 1, 5, 18);
int idx2 = ArrayUtils.find(a, 3, 5, 18);
int idx3 = ArrayUtils.find(a, 3, 3, 18);
System.out.printf("%d %d %d\n", idx1, idx2, idx3);
```

- 18 18 -1
- 3 3 3
- **✓** 33-1

→ Question 14 Retaken

1 / 1 point

What is the output of this code snippet?

```
int a[] = { 12, 17, 11, 18, 12, 18, 11, 18, 12, 18, 14 };
int n1 = ArrayUtils.count(a, 2, 8, 18);
int n2 = ArrayUtils.count(a, 3, 7, 18);
int n3 = ArrayUtils.count(a, 3, 3, 18);
System.out.printf("%d %d %d\n", n1, n2, n3);
```

- **√**() 3 2 0
 - 3 3 1
 - 330

Question 15 Correct on previous attempt(s)

1 / 1 point

What are the contents of array a after this code snippet is executed?

int a[] = { 13, 11, 14, 11, 15, 19, 12, 16, 15 };
$$swap(a, 2, 5)$$
;

- () 13, 15, 14, 11, 11, 19, 12, 16, 15
- **✓**() 13, 11, 19, 11, 15, 14, 12, 16, 15
 - 13, 11, 14, 11, 15, 19, 12, 16, 15

→ Question 16 Retaken

1 / 1 point

What are the contents of array **a** after this code snippet is executed?

- ✓ 11, 14, 11, 15, 19, 12, 16, 15, 13
 - () 13, 11, 14, 11, 15, 19, 12, 16, 15
 - () 15, 13, 11, 14, 11, 15, 19, 12, 16

Attempt Score: 16 / 16 - 100 %

Overall Grade (highest attempt): 16 / 16 - 100 %

Done