Quiz Submissions - Binary Search Homework Quiz

Chork Hieng (username: gt9182iu)

Retaken Attempt 2

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Submission View

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Question 1 Correct on previous attempt(s) **1 / 1 point**

If lowerBound() returns a valid index, the element being searched for must exist in the array.

- ( ) True
- ✓ ( ) False

→ Question 2 Retaken **1 / 1 point**

What is the significance of [lowerBound(a, value), upperBound(a, value))?

- ( ) It is the closed range of indices of array a whose elements are not equal to value.
- ✓ ( ) It is the half-open range of indices of array a whose elements are equal to value.
- ( ) It is the half-open range of indices of array a whose elements are not equal to value.

Question 3 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.exists(a, 15));
```

Answer: true ✓

Question 4 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.exists(a, 17));
```

Answer: false ✔

Question 5 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.lowerBound(a, 14));
```

Answer: 3 ✔

→ **Question 6** Retaken **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.upperBound(a, 14));
```

Answer: 4 ✔

→ **Question 7** Retaken **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.lowerBound(a, 16));
```

Answer: 5 ✔

Question 8 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.upperBound(a, 16));
```

Answer: 5 ✔

Question 9 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.lowerBound(a, 18));
```

Answer: 5 ✔

→ **Question 10** Retaken **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.upperBound(a, 18));
```

Answer: 7 ✔

Question 11 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.lowerBound(a, 5));
```

Answer: 0 ✔

Question 12 Correct on previous attempt(s) **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.upperBound(a, 5));
```

Answer: 0 ✔

→ **Question 13** Retaken **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.lowerBound(a, 25));
```

Answer: 9 ✔

→ **Question 14** Retaken **1 / 1 point**

What will this code print?

```
int[] a = { 11, 11, 11, 14, 15, 18, 18, 19, 20 };
System.out.println(BinarySearch.upperBound(a, 25));
```

Answer: 9 ✔

Attempt Score: 14 / 14 - 100 %

Overall Grade (highest attempt)**:** 14 / 14 - 100 %

Done