

AP Computer Science A

Name: _____ Score: _____

1. A program that runs correctly is...
 - ☐ not automatically ethical
 - ☐ always ethical
 - ☐ always private
 - ☐ never biased
2. A structure that stores many values of the same type under one name is a(n)...
 - ☐ array
 - ☐ int
 - ☐ boolean
 - ☐ constructor
3. For `int[] a = {10, 20, 30};` what is `a[0]`?
 - ☐ 10
 - ☐ 20
 - ☐ 30
 - ☐ there is no `a[0]`
4. The correct condition to traverse an array `a` with an index is...
 - ☐ `i < a.length`
 - ☐ `i <= a.length`
 - ☐ `i < a.length()`
 - ☐ `i > 0`
5. To find the maximum of an array, you should initialize `max` to...
 - ☐ the first element `a[0]`
 - ☐ 0
 - ☐ the array length
 - ☐ -1
6. For `a = {3, 9, 5}`, what is the maximum value?

7. A forward for loop with `i++` and `remove(i)` skips the element after each removal.

☐ True ☐ False

8. An algorithm trained on biased data can amplify that unfairness at scale.

☐ True ☐ False

9. For `int[] a = {10, 20, 30};` what is `a.length`?

10. In `for (int x : a) { x = 0; }`, the array `a` is set to all zeros.

☐ True ☐ False

AP Computer Science A

1. **not automatically ethical**

Correct code can still violate privacy or amplify bias.

2. **array**

An array is a fixed-size, same-type collection.

3. **10**

Arrays are indexed from 0, so `a[0]` is the first element, 10.

4. **`i < a.length`**

Valid indices are `0..length-1`, so `i < a.length`.

5. **the first element `a[0]`**

Starting at 0 fails if all values are negative.

6. **9**

9 is the largest element.

7. **True**

The shifted neighbor takes index `i` but is never checked.

8. **True**

Bias in data can produce unjust outcomes for many people.

9. **3**

Three elements $\rightarrow$ length 3.

10. **False**

`x` is a local copy; the array is unchanged.