Our Solution(s) Run Code

Solution 1 Solution 2

```java
// Copyright © 2020 AlgoExpert, LLC. All rights reserved.

class Program {
  // O(log(n)) time | O(1) space
  public static int binarySearch(int[] array, int target) {
    return binarySearch(array, target, 0, array.length - 1);
  }

  public static int binarySearch(int[] array, int target, int left, in
    while (left <= right) {
      int middle = (left + right) / 2;
      int potentialMatch = array[middle];
      if (target == potentialMatch) {
        return middle;
      } else if (target < potentialMatch) {
        right = middle - 1;
      } else {
        left = middle + 1;
      }
    }
    return -1;
  }
}

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```java
class Program {
  public static int binarySearch(int[] array, int target) {
    // Write your code here.
    return -1;
  }
}

```

Custom Output Submit Code

Run or submit code when you're ready.

Our Tests

```
class ProgramTest {
  @Test
  public void testExample() {
    assertTrue(Program.binarySearch(new int[] {1, 3, 20, 333}, 3
  }

  @Test
  public void testExample() {
```