Our Solution(s) Run Code

Solution 1 Solution 2

```cpp
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#include <vector>
using namespace std;

int binarySearch(vector<int> array, int target);
int binarySearchHelper(vector<int> array, int target, int left, int r

// O(log(n)) time | O(log(n)) space
int binarySearch(vector<int> array, int target) {
  return binarySearchHelper(array, target, 0, array.size() - 1);
}

int binarySearchHelper(vector<int> array, int target, int left, int r
  if (left > right) {
    return -1;
  }
  int middle = (left + right) / 2;
  int potentialMatch = array[middle];
  if (target == potentialMatch) {
    return middle;
  } else if (target < potentialMatch) {
    return binarySearchHelper(array, target, left, middle - 1);
  } else {
    return binarySearchHelper(array, target, middle + 1, right);
  }
}

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```cpp
#include <vector>
using namespace std;

int binarySearch(vector<int> array, int target) {
  // Write your code here.
  return -1;
}

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.