

```

class Solution {

    public int[] sortedSquares(int[] nums) {
        int n = nums.length;
        int[] result = new int[n];

        int left = 0;
        int right = n - 1;
        int index = n - 1;

        while (left <= right) {
            int leftSquare = nums[left] * nums[left];
            int rightSquare = nums[right] * nums[right];

            if (leftSquare > rightSquare) {
                result[index] = leftSquare;
                left++;
            } else {
                result[index] = rightSquare;
                right--;
            }
            index--;
        }

        return result;
    }
}

```

OUTPUT:

Testcase | [Test Result](#)

**Accepted** Runtime: 0 ms

Case 1  Case 2

Input

```
nums =
[-4,-1,0,3,10]
```

Output

```
[0,1,9,16,100]
```

Expected

```
[0,1,9,16,100]
```