[LeetCode](https://leetcode.com/problems/squares-of-a-sorted-array/description/?envType=daily-question&envId=2024-03-02)

<https://github.com/AdityaKonda6/-50DaysOfCoding>

<https://leetcode.com/problems/squares-of-a-sorted-array/description/?envType=daily-question&envId=2024-03-02>

<https://www.linkedin.com/in/aditya-adi-konda/>

 Day 12 of [#50dayscodingchallenge](https://www.linkedin.com/feed/hashtag/?keywords=50dayscodingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633):  
[#leetcode](https://www.linkedin.com/feed/hashtag/?keywords=leetcode&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodechallenge](https://www.linkedin.com/feed/hashtag/?keywords=leetcodechallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcodestreak](https://www.linkedin.com/feed/hashtag/?keywords=leetcodestreak&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode2024](https://www.linkedin.com/feed/hashtag/?keywords=leetcode2024&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#leetcode50day](https://www.linkedin.com/feed/hashtag/?keywords=leetcode50day&highlightedUpdateUrns=urn:li:activity:7166316239483461633)  
   
Just kicked off my coding journey with a fascinating problem - "Successfully solved LeetCode Problem “977. Squares of a Sorted array” !”  
   
✨ Task: Given an integer array nums sorted in non-decreasing order, return an array of the squares of each number sorted in non-decreasing order.

Examples:

Example 1:

Input: nums = [-4,-1,0,3,10]

Output: [0,1,9,16,100]

Explanation: After squaring, the array becomes [16,1,0,9,100].

After sorting, it becomes [0,1,9,16,100].

Example 2:

Input: nums = [-7,-3,2,3,11]Output: [4,9,9,49,121]

Let's Connect:

If you find this problem intriguing or have insights to share, let's connect! I'm passionate about problem-solving, algorithmic thinking, and collaborative learning. Feel free to comment or reach out for engaging discussions and knowledge exchange.Unravel the mystery using your coding skills!

[#CodingChallenge](https://www.linkedin.com/feed/hashtag/?keywords=codingchallenge&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#Algorithm](https://www.linkedin.com/feed/hashtag/?keywords=algorithm&highlightedUpdateUrns=urn:li:activity:7166316239483461633) [#LinkedInPost](https://www.linkedin.com/feed/hashtag/?keywords=linkedinpost&highlightedUpdateUrns=urn:li:activity:7166316239483461633) #Algorithm #Optimization #DataStructures #CodingChallenge  
  
Excited about the progress and challenges ahead!  
   
Make Sure You Follow My GitHub For Solutions: <https://github.com/AdityaKonda6/-50DaysOfCoding>  
  
  
Happy coding!

**Solution:-**

cclass Solution {

  public int[] sortedSquares(int[] nums) {

    final int n = nums.length;

    int[] ans = new int[n];

    int i = n - 1;

    for (int l = 0, r = n - 1; l <= r;)

      if (Math.abs(nums[l]) > Math.abs(nums[r]))

        ans[i--] = nums[l] \* nums[l++];

      else

        ans[i--] = nums[r] \* nums[r--];

    return ans;

  }

}

