



Difficulty: Category: Successful Submissions: 99,028+

Sorted Squared Array

Write a function that takes in a non-empty array of integers that are sorted in ascending order and returns a new array of the same length with the squares of the original integers also sorted in ascending order.

Sample Input

```
array = [1, 2, 3, 5, 6, 8, 9]
```

Sample Output

```
[1, 4, 9, 25, 36, 64, 81]
```

Hints

Hint 1



Hint 2



Hint 3



Hint 4



Optimal Space & Time Complexity

