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

|  |
| --- |
| = [1, 2, 3, 5, 6, 8, 9] |

Sample Output

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