
73261. Square

Input file: **standard input**
Output file: **standard output**
Time limit: 1 second
Memory limit: 256 megabytes

Given an array, output the square value of each element.

Input

The first line contains integer n ($1 \leq n \leq 10^5$) — array size. The next line contains n integers a_i ($1 \leq a_i \leq 10^4$) — elements of array.

Output

Changed array.

Examples

standard input	standard output
5 6 7 15 6 11	36 49 225 36 121
4 7 14 9 3	49 196 81 9
5 3 4 3 13 5	9 16 9 169 25
2 3 5	9 25
3 6 12 4	36 144 16