

You are given an array **A** of non-negative integers of size **m**. Your task is to sort the array in non-decreasing order and print out the original indices of the new sorted array.

Example:

$A=\{4,5,3,7,1\}$

After sorting the new array becomes $A=\{1,3,4,5,7\}$.

The required output should be "4 2 0 1 3"

INPUT :

The first line of input consists of the size of the array

The next line consists of the array of size m

OUTPUT :

Output consists of a single line of integers

CONSTRAINTS:

$1 \leq m \leq 10^6$

$0 \leq A[i] \leq 10^6$

NOTE: The indexing of the array starts with 0.

SAMPLE INPUT

5
4 5 3 7 1

SAMPLE OUTPUT

4 2 0 1 3