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PL-2020-C-Sort it out!

Problem

Submissions

Leaderboard

Discussions

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 Format

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

Constraints

1<=m<=10^6 0<=A[i]<=10^6

NOTE: The indexing of the array starts with 0.

Output Format

Output consists of a single line of integers

Sample Input 0

5 4 5 3 7 1

Sample Output 0

4 2 0 1 3

Sample Input 1

10 7 5 4 3 2 1 8 0 9 6

Sample Output 1

7 5 4 3 2 1 9 0 6 8

f ⊮ in

Submissions: 622 Max Score: 100

Difficulty: Medium

Rate This Challenge:

More

```
C
                                                                                                                       0
   1 ▼#include <stdio.h>
   2
      #include <string.h>
   3
      #include <math.h>
      #include <stdlib.h>
   6 vint main() {
   7
   8 🔻
           /* Enter your code here. Read input from STDIN. Print output to STDOUT */
   9
           int n,k;
           scanf("%d",&n);
  10
           int arr[n];
  11 ₹
           int new[n];
  12 ▼
           int array[n];
  13 ▼
  14
           for(int a=0;a<n;a++)</pre>
  15 ▼
               scanf("%d",&arr[a]);
  16 ▼
  17
               array[a]=arr[a];
  18
           }
  19
           for(int i=0;i<n-1;i++)
  20 •
  21
               for(int j=0;j<n-i-1;j++)
  22 🔻
  23 ▼
                    if(arr[j]>arr[j+1])
  24 ▼
  25 ▼
                        int t=arr[j];
  26 ▼
                        arr[j]=arr[j+1];
  27
                        arr[j+1]=t;
  28
                   }
  29
               }
  30
  31
           for(int i=0;i<n;i++)</pre>
  32
  33
               for(int j=0;j<n;j++)</pre>
  34
  35 ▼
                    if(arr[i]==array[j])
  36 ▼
  37 ▼
                    {
  38
                        new[i]=j;
  39
  40
               }
  41
  42
           for(int b=0;b<n;b++)</pre>
  43
  44 ▼
              printf("%d ",new[b]);
  45 ▼
           }
  46
           return 0;
  47
  48
  49
                                                                                                               Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                                              Submit Code
                                                                                                 Run Code
```

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