Inplace Heap Sort

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Given an integer array of size N. Sort this array (in decreasing order) using heap sort.

Note: Space complexity should be O(1).

Input Format:

The first line of input contains an integer, that denotes the value of the size of the array or N. The following line contains N space separated integers, that denote the value of the elements of the array.

Output Format:

The first and only line of output contains array elements after sorting. The elements of the array in the output are separated by single space.

Constraints:

1 <= n <= 10^6 Time Limit: 1 sec

Sample Input 1:

6

268543

Sample Output 1:

865432