

Worst Permutation



Problem Statement

You are given an array of N integers which is a permutation of the first N natural numbers. You can swap any two elements of the array. You can make at most K swaps. What is the lexicographically worst permutation you can make?

Input Format

The first line of the input contains two integers, N and K , the size of the input array and the maximum swaps you can make, respectively. The second line of the input contains a permutation of the first N natural numbers.

Output Format

Print the lexicographically worst permutation you can make with **at most** K swaps.

Constraints

$1 \leq N \leq 10^5$

$1 \leq K \leq 10^9$

Sample Input#00

```
5 1
4 2 3 5 1
```

Sample Output#00

```
5 2 3 4 1
```

Explanation#00

You can swap any two numbers in $[4,2,3,5,1]$ and see the worst permutation is $[5,2,3,4,1]$

Sample Input#01

```
3 1
2 1 3
```

Sample Output#01

```
3 1 2
```

Explanation#01

With 1 swap we can get $[1,2,3]$, $[3,1,2]$ and $[2,3,1]$ out of these $[3,1,2]$ is the worst permutation.

Sample Input#02

```
2 1
2 1
```

Sample Output#02

```
2 1
```

Explanation#02

We can see that $[2,1]$ is already the worst permutation. So we don't need any swaps.