H

Largest Permutation ☆

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You are given an unordered array of unique integers incrementing from 1. You can swap any two elements a limited number of times. Determine the largest lexicographical value array that can be created by executing no more than the limited number of swaps.

For example, if $arr = [1, 2, 3, 4]$ and the maximum swaps $k = 1$, the following arrays can be formed by swapping the 1 with the other elements:

```
[2,1,3,4]
[3,2,1,4]
[4,2,3,1]
```

The highest value of the four (including the original) is $[4, 2, 3, 1]$. If $k \geq 2$, we can swap to the highest possible value:
$[4, 3, 2, 1]$.

Function Description

Complete the largestPermutation function in the editor below. It must return an array that represents the highest value permutation that can be formed.

largestPermutation has the following parameter(s):

- k: an integer that represents the limit of swaps
- arr: an array of integers

Input Format

The first line contains two space-separated integers n and k, the length of arr and the maximum swaps that can be performed. The second line contains n unique space-separated integers $arr[i]$ where $1 \leq arr[i] \leq n$.

Constraints

$$1 \leq n \leq 10^5$$
$$1 \leq k \leq 10^9$$

Output Format

Print the lexicographically largest permutation you can make with **at most k** swaps.

Sample Input 0

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

Sample Output 0

```
5 2 3 4 1
```

Explanation 0

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

Sample Input 1

```
3 1
2 1 3
```

Sample Output 1

```
3 1 2
```

Explanation 1

With 1 swap we can get $[1, 2, 3]$, $[3, 1, 2]$ and $[2, 3, 1]$. Of these, $[3, 1, 2]$ is the largest permutation.

Sample Input 2

```
2 1
2 1
```

Sample Output 2

```
2 1
```

Explanation 2

We can see that $[2, 1]$ is already the largest permutation. We don't make any swaps.