Largest Permutation

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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 largest permutation, in numerical order, 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 largest 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 largest 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 largest permutation.

Sample Input#02

```
2 1
2 1
```

Sample Output#02

```
2 1
```

Explanation#02

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

Submissions:11362

Max Score:30

Difficulty: Easy

Rate This Challenge:

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Current Buffer (saved locally, editable) Java 7

```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  public class Solution {
8
9      public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code