

Unlock

Shekhar is a bomb defusal specialist. He once encountered a bomb that can be defused only by a secret code. He is given a number N and a number K . And he is also given permutation of first N natural numbers. The defusal code is the largest permutation possible by doing exactly K swaps among a pair of the given permutation. Help him to find the final permutation.

Input Format:

First line contains *an integer N and an integer k* . The next line contains *N space separated integers denoting the given permutation*.

Output Format:

The final permutation of the numbers with every number separated by a space with other number.

Constraints:

$1 \leq n \leq 10^5$

$1 \leq K \leq 10^9$

Sample Input

5 2

3 4 1 2 5

Sample Output

5 4 3 2 1

Difficulty

Easy

Explanation

First we can swap 5 with 3 which gives us 5 4 1 2 3 and then we can swap 3 and 1 which gives us 5 4 3 2 1.