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C. Finding Minimums

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You are given N numbers, and you should divide them into consecutive groups of size K, then print the minimum among each group. If the last group is of size < K, print the minimum number found just after the last number received.

For more explanation, see the **notes**.

Input

First line contains two numbers N, K ($1 \le K \le N \le 10^5$) – the number of values, and the range length after which you should print the minimum.

Second line contains N numbers ($-10^9 \le x \le 10^9$).

Output

Print the answer in a single line.

Examples

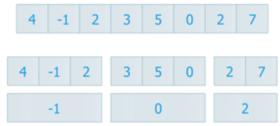
input	Сору
8 3 4 -1 2 3 5 0 2 7	
output	Сору
-1 0 2	

input	Сору
8 4 4 -1 2 3 5 0 2 7	
output	Сору
-1 0	

Note

In the first test case:

- 1. The minimum number among [4, -1, 2] is -1.
- 2. The minimum number among [3,5,0] is 0.
- 3. The minimum number among [2, 7] is 2.



In the **second** test case:

- 1. The minimum number among [4, -1, 2, 3] is -1.
- 2. The minimum number among $\left[5,0,2,7\right]$ is 0.

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