Problem 1. Letters

Ivancho needs your help again. This time he has an string S consisting of N lower-case letters of which he must chose K letters and make a new string from them. The new string must contain as many distinct letters as possible. If more than one solution exists, you should the exicographically smallest.

To help Ivancho you should write a programme letters that scans N, K and S and prints the desired.

Input

The first line of the input file **letters.in** contains two integers N and K – the number of the letters in the initial string and the number of the letters that the new string must contain. The second line of the input file contains N letters – the initial string.

Output:

The output file **letters.out** must contain a string consisted of K letters – the wanted new string.

TIME LIMIT – 2 sec

Constraints:

$1 \leq N \leq 1000$

$1 \leq K \leq N$

Example:

letters.in	letters.out
16 12 aamiybnnsnpibayq	`aaabbimnpqsy`