Mirko and Slavko are bored at math class again so they came up with new game. Mirko writes down an **N** digit number, and Slavko's task is to obtain the **largest** possible number after having removed exactly **K** digits.

Help him do that!

INPUT

The first line of input contains integers **N** and **K** ($1 \leq \mathbf{K} < \mathbf{N} \leq 500\,000$).

The following line contains **N** digit number. This number starts with non-zero digit.

OUTPUT

The first and only line of output should contain the largest possible number Slavko can obtain by removing **K** digits from the given number.

SCORING

In test cases worth 50% of total points, **N** will not exceed 1000.

SAMPLE TESTS

input	**input**	**input**
4 2 1924	7 3 1231234	10 4 4177252841
output	**output**	**output**
94	3234	775841