

Math Class

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 ($1 \leq K < N \leq 500\,000$). 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.

Sample input

Sample output

| | |
|--------------------|--------|
| 4 2 1924 | 94 |
| 7 3 1231234 | 3234 |
| 10 4 4177252841 | 775841 |