## Moves

NOTE: This problem is intended to be solved last as it is quite difficult for a beginner competition.
You are given a string s of length $n$ and $m$ queries.
For each query you are given two integers $L$ and $R$ and you're asked to move the substring $L$ to $R$ to the start of the string.

Determine the final string after performing all the queries.

## Input

Your first line will contain two space-separated integers $n(n<=250000)$ and $m(m<=250000)$.
Your next line will contain a string s of length n.
Your next $m$ lines will contain two integers each, $L$ and $R$ for that query (1-indexed).

## Output

You should output the final string after performing all the queries.

## Input 1

103
abcdefghij
23
35
37

## Output 1

ebcfgadhij

## Explanation 1

Here is the string after each query.
abcdefghij
bcadefghij (moved 'bc' to the start since it's the substring from index 2 to 3)
adebcfghij (moved 'ade' to the start)
ebcfgadhij (moved 'ebcfg' to the start)

