

The 27<sup>th</sup> Annual  
ACM International Collegiate  
Programming Contest  
ASIA Regional - Taejon



## Practice Problem B

### Reverse

Input: reverse.in

For a string  $s$  of English letters, a set of reversing operations is given as a sequence of pairs of integers. Each pair of integers  $(i, j)$  indicates the locations of two letters in  $s$  and the substring between the two letters at  $i$  and  $j$  inclusive should be reversed. The location of the first character of  $s$  is assumed to be 1.

For example, suppose that a string  $s$  is “iloveyou” and a set of reversing operations is  $\{(2, 5)\}$ . Then, the string after applying the reverse operation is “ievolyou”.

Write a program that performs all the reversing operations and outputs the resulted string.

### Input

The input consists of  $T$  test cases. The number of test cases ( $T$ ) is given in the first line of input file. Each test case consists of four lines. The first line has an integer  $n$ ,  $1 \leq n \leq 100$ , that represents the length of string  $s$ . The second line contains the string  $s$ . The third line contains an integer  $m$ ,  $1 \leq m \leq 100$ , that represents the number of reversing operations. The fourth line contains a sequence of  $m$  pairs of integers,  $i_1, j_1, i_2, j_2, \dots, i_m, j_m$  ( $1 \leq i_k, j_k \leq n$ ).

### Output

Print exactly one line for each test case. The line should contain a string after applying all the reversing operations.

#### Sample Input (reverse.in)

#### Output for the Sample Input

4	iloveyou
8	iloveyou
ievolyou	iloveyou
1	iloveyou
2 5	
8	
ieovlyou	
2	
2 5 3 4	
8	
ievolyou	
1	
5 2	
8	
ievolyou	
2	
5 2 3 3	