

Contest Duration: 2025-08-16(Sat) 22:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250816T2100&p1=248>) - 2025-08-16(Sat) 23:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250816T2240&p1=248>) (local time) (100 minutes)

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D - Substr Swap

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 400 points

Problem Statement

You are given length- N lowercase English strings S and T , and M pairs of integers $(L_1, R_1), (L_2, R_2), \dots, (L_M, R_M)$.

Perform the following operation for $i = 1, 2, \dots, M$ in order:

- Swap the L_i -th through R_i -th characters of S and the L_i -th through R_i -th characters of T .
 - For example, if S is abcdef, T is ghijk1, and $(L_i, R_i) = (3, 5)$, then S and T become abijkf and ghcdel, respectively.

Find the string S after performing the M operations.

Constraints

- $1 \leq N \leq 5 \times 10^5$
- $1 \leq M \leq 2 \times 10^5$
- Each of S and T is a length- N lowercase English strings.
- $1 \leq L_i \leq R_i \leq N$
- N, M, L_i , and R_i are integers.

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Input

The input is given from Standard Input in the following format:

```
 $N$   $M$   
 $S$   
 $T$   
 $L_1$   $R_1$   
 $L_2$   $R_2$   
 $\vdots$   
 $L_M$   $R_M$ 
```

Output

Output the S after performing the M operations.

Sample Input 1

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```
5 3  
apple  
lemon  
2 4  
1 5  
5 5
```

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Sample Output 1

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```
lpple
```

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Initially, S and T are apple and lemon, respectively.

- After the operation for $i = 1$, S and T are aemoe and lppln, respectively.
- After the operation for $i = 2$, S and T are lppln and aemoe, respectively.
- After the operation for $i = 3$, S and T are lpple and aemon, respectively.

Thus, the string S after the three operations is lpple.

Sample Input 2

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```
10 5
lemwrbogje
omsjbfggme
5 8
4 8
1 3
6 6
1 4
```

Sample Output 2

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```
lemwrfogje
```

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#telegram)

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