



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

B. Pasha and String

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Pasha got a very beautiful string S for his birthday, the string consists of lowercase Latin letters. The letters in the string are numbered from 1 to |S| from left to right, where |S| is the length of the given string.

Pasha didn't like his present very much so he decided to change it. After his birthday Pasha spent m days performing the following transformations on his string — each day he chose integer a_i and **reversed** a piece of string (a segment) from position a_i to position $|s| - a_i + 1$. It is guaranteed that $2 \cdot a_i \le |s|$.

You face the following task: determine what Pasha's string will look like after m days.

Input

The first line of the input contains Pasha's string ${\it S}$ of length from 2 to $2\cdot 10^5$ characters, consisting of lowercase Latin letters.

The second line contains a single integer $m (1 \le m \le 10^5)$ — the number of days when Pasha changed his string.

The third line contains m space-separated elements a_i ($1 \le a_i$, $2 \cdot a_i \le |S|$) — the position from which Pasha started transforming the string on the i-th day.

Output

In the first line of the output print what Pasha's string S will look like after m days.

Examples

Examples	
input	
abcdef 1 2	
output	
aedcbf	
input	
wxyz 2 2 2	
output	
wxyz	
input	
abcdef 3 1 2 3	
output	
fodcea	

Codeforces Round #297 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags (greedy) No tag edit access

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