CODEFORCES β
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PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Black Square

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Quite recently, a very smart student named Jury decided that lectures are boring, so he downloaded a game called "`Black Square`" on his super cool touchscreen phone.

In this game, the phone's screen is divided into four vertical strips. Each second, a black square appears on some of the strips. According to the rules of the game, Jury must use this second to touch the corresponding strip to make the square go away. As Jury is both smart and lazy, he counted that he wastes exactly a_i calories on touching the i-th strip.

You've got a string s, describing the process of the game and numbers a_1, a_2, a_3, a_4. Calculate how many calories Jury needs to destroy all the squares?

Input

The first line contains four space-separated integers a_1, a_2, a_3, a_4 $(0 \le a_1, a_2, a_3, a_4 \le 10^4)$.

The second line contains string s $(1 \le |s| \le 10^5)$, where the i-th character of the string equals "`1`", if on the i-th second of the game the square appears on the first strip, "`2`", if it appears on the second strip, "`3`", if it appears on the third strip, "`4`", if it appears on the fourth strip.

Output

Print a single integer — the total number of calories that Jury wastes.

Examples

input
1 2 3 4 123214

output
13

input
1 5 3 2 11221

output
13

Codeforces Round #247 (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

implementation

No tag edit access

→ Contest materials

- Announcement   ✕
- Tutorial   ✕