Home

登录 (http://112.126.101.92/login)

好评 [+67]

ICPC亚洲区域赛银川赛站网络预选赛

H. Clear-Wrong

Time Limit: 2 s **Memory Limit: 256 MB**

统计 (/contest/1/problem/11/statistics)

描述 提交 返回比赛 (/contest/1)

Description

You're given a string s of length n ($1 \leq n \leq 10^5$) consists of only lowercase letters, every char s_i ($1 \leq i \leq n$) has a value w_i ($0 \leq w_i \leq 998344353$).

The cost of deleting a char s_i is its value w_i.

Please calculate the **minimal** sum of cost of deleting chars in s in order to make sure that there is no subsequence `wrong` in s.

Note that `wrong` is **not necessary** to be consecutive.

Input

The first line contains an integer n ($1 \leq n \leq 10^5$) denoting the length of string s.

The second line contains a string s.

The third line contains n integers, the i-th number denotes w_i ($0 \leq w_i \leq 998244353$).

Output

An integer denoting the **minimal** sum of cost.

Samples

Input 1

```
9
qqfwrogng
0 18 48 56 384 448 144 336 36
```

Output 1

```
36
```

Input 2

```
18
musdxxwrongwogownr
0 72 28 70 8 7 0 0 189 42 108 0 180 60 432 0 0 280
```

Output 2

```
0
```

 (http://112.126.101.92/contest/1/problem/11?locale=zh-cn)  (http://112.126.101.92/contest/1/problem/11?locale=en)

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