

A person is locked inside a cage underwater, screaming "I'm under the water! Please Help me".And the cage can't be broken mechanically as some unknown transparent strong material made it. But a programmer can free him 😎.

### Little message from him

To release him, you need to find a way to build the codeword. However, after you break the codeword, there is some time that it will take to open the cage. This time is calculated according to the following rules:

- At first, you are given an empty string.
- There are two restrictions:
  1. The codeword must have a length of  $l$ .
  2. When you add a character to the string, the time is increased by "p" seconds.
  3. When you duplicate the string, the time is increased by level "q" seconds.

Ex : - codeword aabaacaba Lets think that you have built the code upto 'aab' You can create 'aabaa' by only increasing q seconds as the 'aa' substring is in "aab"

Find the minimum amount of time to open the cage so that the person underwater can stop screaming.

### Input Format

The first line  $T$  contains number of testcases . The  $2 * T$  subsequent lines each describe a test case over lines: The first contains 3 space-separated integers  $l$ ,  $P$  and  $Q$  respectively. The second contains Codeword  $S$

### Constraints

- $1 \leq T \leq 3$
- $1 \leq L \leq 10^4$
- $1 \leq P, Q \leq 1000$
- $S$  is composed with lowercase letters only

### Output Format

On a single line for each test case, print the minimum number of seconds which will be taken to open the door

### Sample Input 0

```
2
9 4 5
aabaacaba
```

```
9 8 9
bacbacacb
```

### Sample Output 0

```
26
42
```

### Sample Input 1

```
3
10 2 3
caaahqcqes
10 1 3
acbbqbbqbb
10 2 4
cbabecbahe
```

### Sample Output 1

```
20
10
18
```