Greg wants to build a string, S of length N. Starting with an empty string, he can perform 2 operations:

1. Add a character to the end of S for A dollars.
2. Copy any substring of S, and then add it to the end of S for B dollars.

Calculate minimum amount of money Greg needs to build S.

Input Format

The first line contains number of testcases T.

The $2 \times T$ subsequent lines each describe a test case over 2 lines:
The first contains 3 space-separated integers, N, A , and B, respectively.
The second contains S (the string Greg wishes to build).

Constraints

- $1 \leq T \leq 3$
- $1 \leq N \leq 3 \times 10^4$
- $1 \leq A, B \leq 10000$
- S is composed of lowercase letters only.

Output Format

On a single line for each test case, print the minimum cost (as an integer) to build S.

Sample Input

```
2
9 4 5
aabaacaba
9 8 9
bacbacacb
```

Sample Output

```
26
42
```

Explanation

Test Case 0:
$S_{initial}$ = ""; S_{final} = "$aabaacaba$"
Append "a"; S = "a"; cost is 4
Append "a"; S = "aa"; cost is 4
Append "b"; S = "aab"; cost is 4
Copy and append "aa"; S = "$aabaa$"; cost is 5
Append "c"; S = "$aabaac$"; cost is 4
Copy and append "aba"; S = "$aabaacaba$"; cost is 5

Summing each cost, we get $4 + 4 + 4 + 5 + 4 + 5 = 26$, so our output for *Test Case 1* is 26.

Test Case 1:
$S_{initial}$ = ""; S_{final} = "$bacbacacb$"
Append "b"; S = "b"; cost is $8
Append "a"; S = "ba"; cost is $8
Append "c"; S = "bac"; cost is $8
Copy and append "bac"; S = "$bacbac$"; cost is $9
Copy and append "acb"; S = "$bacbacacb$"; cost is $9

Summing each cost, we get $8 + 8 + 8 + 9 + 9 = 42$, so our output for *Test Case 2* is 42.