

Build a String

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 "; $S = "aaba"$; 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**.