大视野在线测评

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本站

Notice: 1:由于本OJ建立在Linux平台下,而许多题的数据在Windows下制作,请注意输入、输出语句及数据类型及范围,避免无谓的RE出现。 2:本站即将推出针对初学者的试题系统(与目前OJ是分开的,互不影响),内容覆盖从语法入门到NOI的所有知识点,敬请关注。

2787: Spoj 11482. Count on a trie

Time Limit: 6 Sec Memory Limit: 256 MB Submit: 65 Solved: 13

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Description

Maintain two sets of strings S and T.Initially, each set contains an empty string with id 1. Your program are to perform the following four operations:

- 1.Add a char c to the end of an existed string Si in S,then insert the new string into S.Since there has been n strings in S already,the new string will hold the id n+1.
- 2.Add a char c to the beginning or to the end of an existed string Ti in T, then insert the new string into T.
- 3. Choose two existed strings Ti and Tj from T,next combine them into a new one TiTj,then insert the new string into T.
- 4. Print the time that an existed string Ti in T appears in an string Si in S. Your program should print 0 if Ti is an empty string.

维护两个字符串集合S,T,一开始S和T都只有一个空串,编号都为1,要求支持操作:

- 1.在S的某一个串Si后添加一个字符c,加入S
- 2.在T的某一个串Ti的前面或后面添加一个字符c,加入T
- 3.将T的两个串Ti,Ti首尾相接形成一个新串TiTi,加入T
- 4.询问T中的某个串Ti在S中某个串Si中的出现次数.(如果Ti是空串,输出0)

Input

In the first line, there is an integer Q, which means the number of operations to perform. In the next Q lines, the i-th line describes the i-th operation containing some integers. Such a

```
line may look like this:

1 Si c

2 0 Ti c => add c to the beginning of Ti

2 1 Ti c => add c to the end of Ti

3 Ti Tj

4 Ti Si

Q<=300000, 'a'<=c<='z'

The number of the first operation will not exceed 100000.

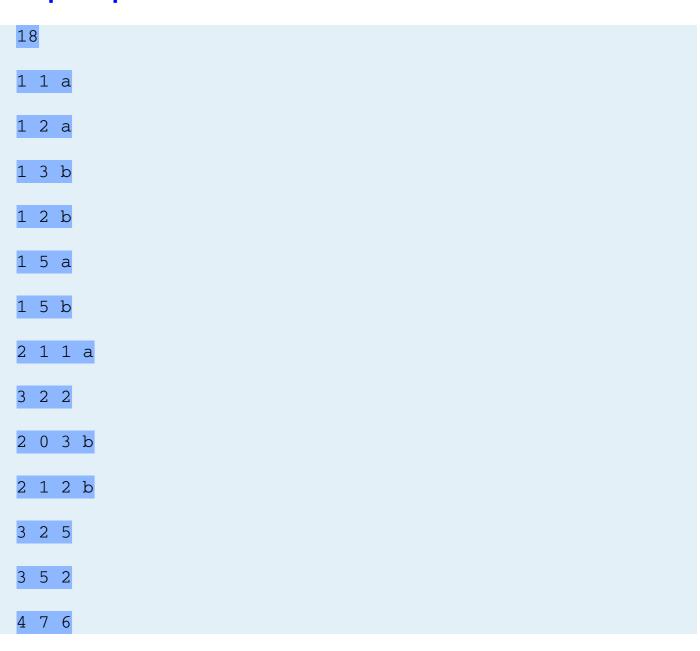
The number of fourth operation will not exceed 30000.

The number of fourth operation will not exceed 100000.
```

Output

For each "4 Ti Si" operation, print its result;

Sample Input



| 4 3 4 4 2 4 4 2 7 4 2 6 | 4 5 6 | | |
|--|-------|--|--|
| 4 2 7 | 4 3 4 | | |
| | 4 2 4 | | |
| 4 2 6 | 4 2 7 | | |
| | 4 2 6 | | |

Sample Output

| 1 | |
|---|--|
| 1 | |
| 1 | |
| 2 | |
| 1 | |
| 2 | |

HINT

Source

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