Monk and Nice Strings

Attempted by: **4637** / Accuracy: **73%** / Maximum Score: **20** / 53 Votes

Tag(s): Easy

Monk's best friend Micro's birthday is coming up. Micro likes Nice Strings very much, so Monk decided to gift him one. Monk is having *N* nice strings, so he'll choose one from those. But before he selects one, he need to know the Niceness value of all of those. Strings are arranged in an array *A*, and the Niceness value of string at position *i* is defined as the number of strings having position less than *i* which are lexicographicaly smaller than $A[i]$. Since nowadays, Monk is very busy with the Code Monk Series, he asked for your help.
Note: Array's index starts from *1*.

Input:
First line consists of a single integer denoting *N*.
N lines follow each containing a string made of lower case English alphabets.

Output:
Print *N* lines, each containing an integer, where the integer in i^{th} line denotes Niceness value of string $A[i]$.

Constraints:
$1 \leq N \leq 1000$
$1 \leq |A[i]| \leq 10 \; \forall \; i \; where \; 1 \leq i \leq N$, where $|A[i]|$ denotes the length of i^{th} string.

SAMPLE INPUT

```
4
a
c
d
b
```

SAMPLE OUTPUT

```
0
1
2
1
```

Explanation

Number of strings having index less than 1 which are less than "a" = 0
Number of strings having index less than 2 which are less than "c": ("a") = 1
Number of strings having index less than 3 which are less than "d": ("a", "c") = 2
Number of strings having index less than 4 which are less than "b": ("a") = 1

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded when all the testcases pass.
Allowed Languages:	Bash, C, C++, C++14, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Swift, Swift-4.1, TypeScript, Visual Basic

CODE EDITOR

Enter your code or Upload your code as file. Save C++14 (g++ 5.4.0)

```
// Monk and Nice Strings

#include<iostream>

using namespace std;

int main(){
    int n;
    cin>>n;
    string strs[n];
    for(int i=0;i<n;i++){
        string temp;
        cin>>temp;
        strs[i] = temp;

        // Calculating niceness of current string
        int niceness=0;
        for(int j=0;j<i;j++){
            if(strs[j] < strs[i])
                niceness++;
        }
        cout<<niceness<<endl;
    }
    return 0;
}
```

16:50 vscode

Provide custom input

COMPILE & TEST SUBMIT

Submission ID: 40268491 / 2 seconds ago

RESULT: Accepted

Score	Time (sec)	Memory (KiB)	Language
20.0	1.01926	64	C++14

Input	Result	Time (sec)	Memory (KiB)	Score	Your Output	Correct Output	Diff
Input #1	✓	0.101662	64	10			
Input #2	✓	0.101604	64	10			
Input #3	✓	0.101909	64	10			
Input #4	✓	0.102515	64	10			
Input #5	✓	0.101785	64	10			
Input #6	✓	0.102492	64	10			
Input #7	✓	0.101609	64	10			
Input #8	✓	0.102014	64	10			
Input #9	✓	0.101975	64	10			
Input #10	✓	0.101698	64	10			

Compilation Log

Compilation Successful.

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