1376 - I2P CS 2017 Fall Chen Final Exam

Scoreboard (/contest/scoreboard/1376/)

Time			
2018/01/08 15:30:00	Contest Ended	2018/01/08 19:20:00	

Clarification						
# Problem	Asker	Description	Reply	Replier	Reply Time	For all team
1 11790 - Secret Letter	judgevllab	考試剩不到15分鐘囉~ 保握第一筆測資	真的是範測	judgevllab	2018/01/08 18:44:44	✓

Overview	Problem →

11786 - Final Exam - Problem F (bonus)

Status (/status/?pid=11786) | Limits | Submit (/users/submit/11786)

Description

Problem F - 2018

As you all know, Frank Lin likes to go mountain climbing. Unlike lonely Roy who celebrates New Year's Eve at the dorm himself, Frank decides to watch the smoky sunrise in the mountains at the beginning of 2018. Before the journey, Frank plans n different routes to climb up the mountain. Given the n different routes, your task is to find out how many different locations these routes will end up with.

You can consider the whole journey and the location as lines and points on the coordinate plane system. Frank will start his journey at point (0, 0). The route representation contains only four characters 'N', 'S', 'E', and 'W' which stands for that Frank moves up, down, right, or left one unit parallel to the y-axis ('N' and 'S') or the x-axis ('E' and 'W') respectively.



source: http://www.ysnp.gov.tw

Input		
The input consists of a sin	ngle test case in the following format.	
n		
s ₁		
s ₂		
···		
different routes to climb up routes. The <i>i-</i> th line of the	nteger n satisfying $1 \le n \le 2000$. n denotes the total of the mountains. The next n lines show the direction n contains a string s_i with only four characters ' N ', 'een n and n 00, inclusive, which is the information of the n 1 and n 20.	ns of 'S' , 'E' , and
Output Print the number of location Sample Input	ons these routes will end up with.	
Download (data:text/plain;cl	harset=utf-8,5%0D%0ANNNEEE%0D%0ANENENE%0D%	%0ANSNSNNNEEE%0D%0ANSWE%0D%0ANNSSWWEE)
5 NNNEEE NENENE NSNSNNNEEE NSWE NNSSWWEE		
Sample Output	Download (data:text/plain;charset=utf-8,2%0D%0A)	
2		
Tags		
Discuss		

http://140.114.86.238/contest/1376/