
Movements on the ground**P79784_en**

Write a program that reads a sequence of characters, each one codifying a movement ('n' for north, 's' for south, 'e' for east, and 'w' for west), and that computes the final position of an object initially located at (0,0). Suppose that the first component corresponds to the east-west direction, that going east is like adding 1 to that component, and that going south is like adding 1 to the second component.

Input

Input consists of a sequence of characters 'n', 's', 'e', or 'w'.

Output

Print the final position of an object initially located at (0,0).

Sample input 1

nnnn

Sample output 1

(0, -4)

Sample input 2

ssewwwn

Sample output 2

(-3, 1)

Sample input 3**Sample output 3**

(0, 0)

Problem information

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