

Ques Given \rightarrow (NS EW) only
String \rightarrow N letter object

String \rightarrow N letter (object)

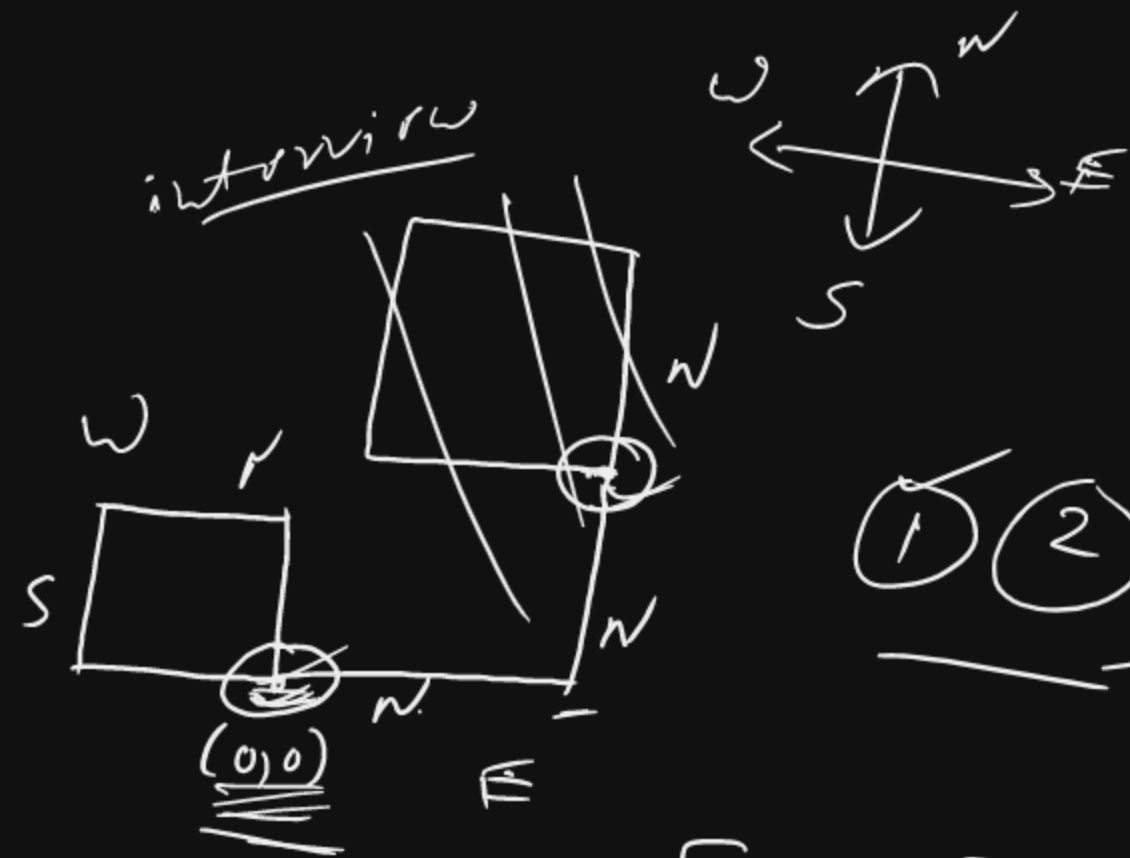
input

input $([N W S E] E N N W S E)$

Output

2

~~(true)~~
(false)


$$[N]y = [constant]$$
$$\underline{CO_2} + \frac{1}{2} O_2 \rightarrow \frac{1}{2} CO_2$$

$(1, 0) \rightarrow 1$

Pseudo code

→ $x, y \leftarrow 0 \rightarrow (0, 0)$

→ for (char ch: str)

→ if (ch == 'N') $y++$ ✓

if (ch == 'S') $y--$ ✓

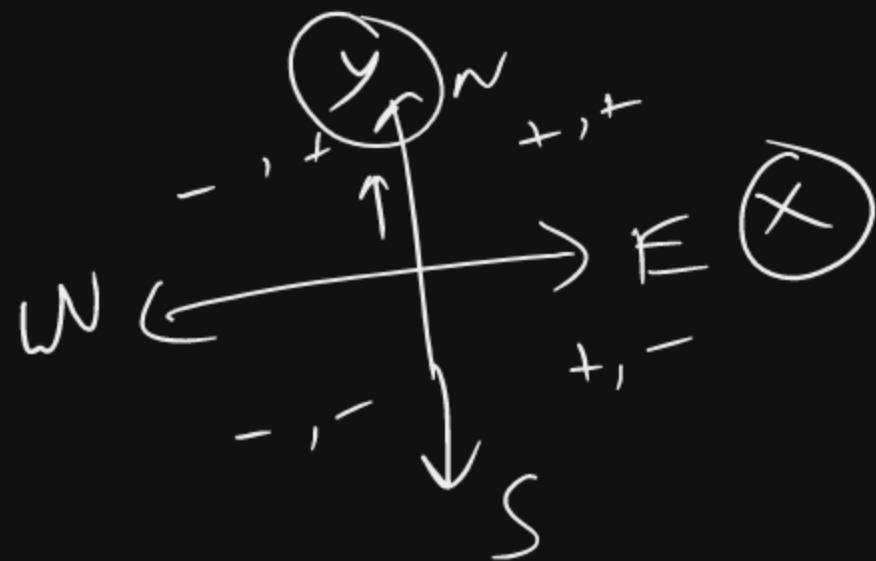
if (ch == 'W') $x--$

if (ch == 'E') $x++$

if ($x == 0$ & & $y == 0$)

return false

return true



[0, 0]

Java
 Array → mutable / immutable
String → mutable / immutable

StringBuilder [N(W)ES]

(Iterable) (Writer) → (not access) × [char A+(i)]
 → read only

for (char ch: str)
 for (int i=0; i < str.length(); i++)
 str.charAt(i) → read

char[] ch = str.toCharArray()

String builder

Iterable (2n)

String str = "abc"

✓ (str = str + "ef")

↓
 (costly time)

