


Take a Ten Minutes Walks

☰	arrow function的格式
🕒 Created	@October 24, 2022 2:29 PM
📌 Difficulty	6 kyu
📌 Review	★
☰ Topics	Array.filter() Array.reduce() switch

Take a Ten Minutes Walk

You live in the city of Cartesia where all roads are laid out in a perfect grid. You arrived ten minutes too early to an appointment, so you decided to take the opportunity to go for a short walk....

 <https://www.codewars.com/kata/54da539698b8a2ad76000228/javascript>

codewars 
Achieve Mastery Through Challenge

```
switch(expression){  
  case value1 : ;break;  
}
```

Switch

```
function isValidWalk(walk) {  
  var dx = 0  
  var dy = 0  
  var dt = walk.length  
  
  for (var i = 0; i < walk.length; i++) {  
    switch (walk[i]) {  
      case 'n': dy--; break  
      case 's': dy++; break  
      case 'w': dx--; break  
      case 'e': dx++; break  
    }  
  }  
}
```

```

    return dt === 10 && dx === 0 && dy === 0
  }

```

Array.filter()

```

function isValidWalk(walk) {
  function count(val) {
    return walk.filter(function(a){return a==val;}).length;
  }
  return walk.length==10 && count('n')==count('s') && count('w')==count('e');
}

```

Array.reduce()

```

function isValidWalk(walk) {
  return walk.length == 10 && !walk.reduce(function(w,step){ return w + {"n":-1,"s":
1,"e":99,"w":-99}[step]},0)
}

```

```

reduce((w,step)=>{ return w + {"n":-1,"s":1,"e":99,"w":-99}[step]},0)

```

//explanation

```

reduce(function(previousValue, currentValue) { /* ... */ }, initialValue)
reduce((previousValue, currentValue) => { /* ... */ }, initialValue)

```

previousValue

The value resulting from the previous call to callbackFn. On first call, initialValue if specified, otherwise the value of array[0].

currentValue

The value of the current element. On first call, the value of array[0] if an initial value was specified, otherwise the value of array[1].

用不用initialValue, 要看用不用array[0]的值。这里明显不是用array[0], 而是用的{"n":-1,"s":1,"e":99,"w":-99}[array[i]]的值