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Program to check if two stacks are equal

Posted on [August 14, 2019](#) | by [Prashant Yadav](#)

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An algorithm to check if two [stacks](#) are equal in javascript.

Example

Input:

2 9 3 7 5

2 9 3 7 5

Output:

true

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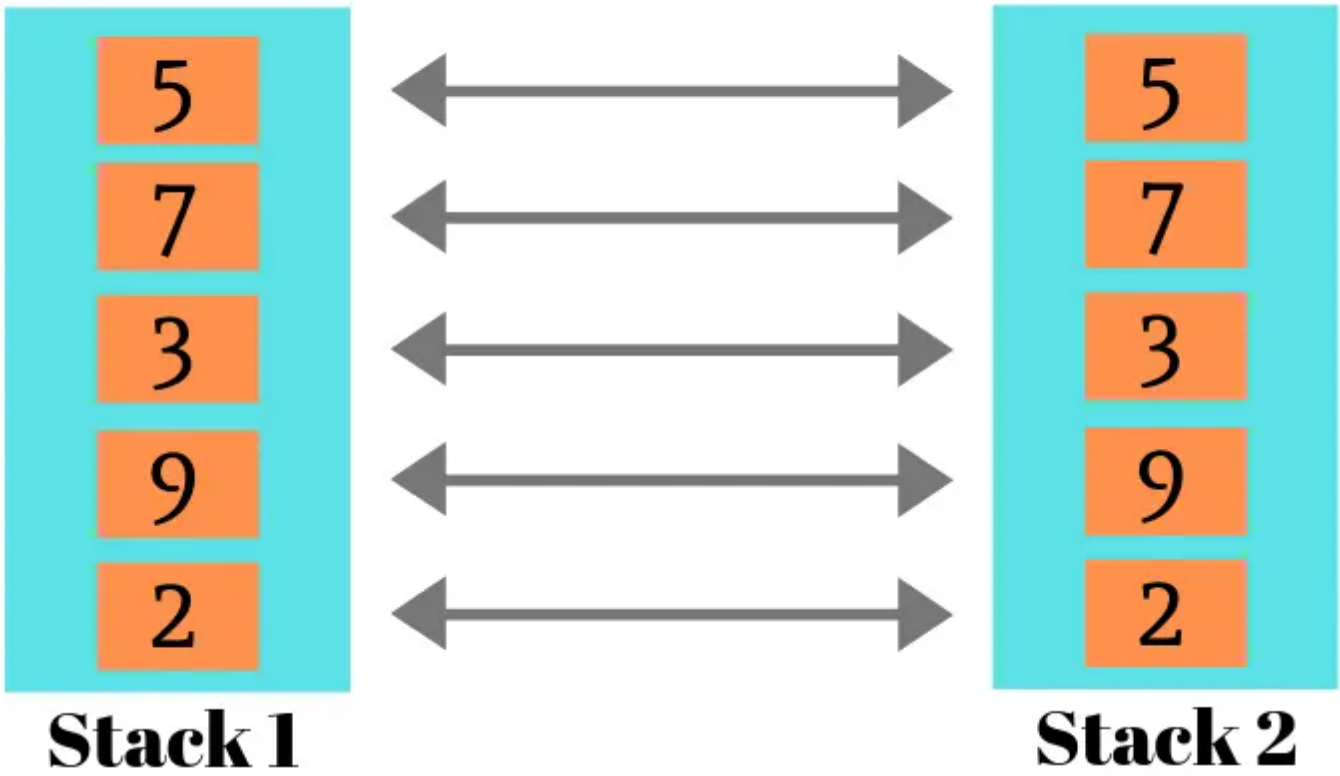
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Check if two stacks are equal



Implementation

- First we will check if the length of both the stacks are same, if they are not equal then return `false`.

- If the length are same, then check each element in both the stacks by peeking the elements.
- If they are equal then pop the elements else return `false`.
- At the end if all elements are same in both the stack then return `true`.

```
let equalStacks = (stack1, stack2) => {  
  //If length is not equal  
  //Then return false  
  if(stack1.size() !== stack2.size()){  
    return false;  
  }  
  
  //Check if each element in both the stack are equal  
  while(!stack1.isEmpty()){  
    if(stack1.peek() === stack2.peek()){  
      stack1.pop();  
      stack2.pop();  
    }else{  
      return false;  
    }  
  }  
  
  return true;  
}
```

```
Input:  
let stack1 = new stackUsingLL();  
stack1.push(2);  
stack1.push(9);  
stack1.push(3);  
stack1.push(7);  
stack1.push(5);  
  
let stack2 = new stackUsingLL();  
stack2.push(2);  
stack2.push(9);  
stack2.push(3);  
stack2.push(7);  
stack2.push(5);  
  
console.log(equalStacks(stack1, stack2));  
  
Output:  
true
```

Time complexity: $O(n)$.

Space complexity: $O(1)$.

Time and Space complexity

- We are checking each element in both the stack, so Time complexity is $O(n)$.
- We are using constant space, so Space complexity is $O(1)$.

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