Our Solution(s)   Run Code

Solution 1

```javascript
1   // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3   // O(n) time | O(1) space - where n is the length of the input a
4   function hasSingleCycle(array) {
5     let numElementsVisited = 0;
6     let currentIdx = 0;
7     while (numElementsVisited < array.length) {
8       if (numElementsVisited > 0 && currentIdx === 0) return false
9       numElementsVisited++;
10      currentIdx = getNextIdx(currentIdx, array);
11    }
12    return currentIdx === 0;
13  }
14
15  function getNextIdx(currentIdx, array) {
16    const jump = array[currentIdx];
17    const nextIdx = (currentIdx + jump) % array.length;
18    return nextIdx >= 0 ? nextIdx : nextIdx + array.length;
19  }
20
21  exports.hasSingleCycle = hasSingleCycle;
22
```

Your Solutions   Run Code

Solution 1   Solution 2   Solution 3

```javascript
1   function hasSingleCycle(array) {
2     // Write your code here.
3   }
4
5   // Do not edit the line below.
6   exports.hasSingleCycle = hasSingleCycle;
7
```

Our Tests   Custom Output   Submit Code

Run or submit code when you're ready.