Our Solution(s)

Run Code

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Your Solutions
```

Run Code

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Solution 1
 1 // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 #include <vector>
4 using namespace std;
6 int getNextIdx(int currentIdx, vector<int> array);
8 \ // \ O(n) \ time \ | \ O(1) \ space - where n is the length of the input ;
9 bool hasSingleCycle(vector<int> array) {
    int numElementsVisited = 0;
10
11
     int currentIdx = 0;
     while (numElementsVisited < array.size()) {</pre>
12
13
      if (numElementsVisited > 0 && currentIdx == 0)
14
        return false;
15
       numElementsVisited++;
16
       currentIdx = getNextIdx(currentIdx, array);
17
18
     return currentIdx == 0;
19 }
20
21 int getNextIdx(int currentIdx, vector<int> array) {
22
     int jump = array[currentIdx];
     int nextIdx = (currentIdx + jump) % (int)array.size();
23
24
     return nextIdx >= 0 ? nextIdx : nextIdx + array.size();
25 }
26
```

```
Solution 1  Solution 2  Solution 3

1  using namespace std;
2
3  bool hasSingleCycle(vector<int> array) {
4    // Write your code here.
5    return -1;
6  }
7
```

