Input: An array of integers leach integer represents a jump of its value in the array. Eq. integer 2 represents 2 index jump forward.

If jump exceeds array bounds, it jumps to the other side.

Boolean prepresenting whether the jumps form a single cycle. A single cycle occors it, starting at any index in the array and following the jumps, every element in the array is true visited exactly one before landing back on the strating index

```
// O(n) time | O(1) space
function hasSingleCycle(array) {
  let currIdx = 0;
  let counter = 0;
  white (counter < array.length) {
    if (counter > 0 && currIdx == 0) return false;
    counter++;
    currIdx = getNextIdx(currIdx, array);
  }
  return currIdx === 0;
}

function getNextIdx(currentIndex, array) {
  let newIndex = currentIndex + array(currentIndex);
  if (newIndex >= array.length || newIndex < 0) {
    newIndex = newIndex % array.length;
  }
  return newIndex >= 0 ? newIndex : newIndex + array.length;
}
```

Idea: We know how many elements are in our array. We also know what index we stort at.

If we arrive at the storting index before our counter reaches the array length, we can return false since we would have visited the node twice

If at the end we do not end at our starting inches that means we did not do a simple cycle get Next box handles updating our current index and handling the edge cases (array out of bounds)

Time: O(n) (where n is the length of the array) since we are iterating through n elements and every other operation is O(1)

Space: O(1) since we are not storing any more values at a grows.