**Increment Large Integer Array**

The process of taking a large integer represented as an array of digits and increasing its value by one. The array of digits represents the integer in a way where each element in the array corresponds to a digit in the integer, with the most significant digit on the left and the least significant digit on the right.

1. **Problem solving:**

**Initialize Variables:**

Create a variable carry and set it to 1. This represents the initial carry when incrementing the least significant digit.

**Iterate Through Digits:**

Use a for loop to iterate through the digits array from right to left (most significant to least significant).

**Add Carry to Current Digit:**

Add the current digit and the carry.

Update the current digit with the result modulo 10.

Update the carry with the result divided by 10 (integer division).

**Check for Remaining Carry:**

If there is no remaining carry (carry equals 0), break out of the loop since further iterations won't affect the result.

**Handle Remaining Carry:**

If there is still a carry after the loop, insert it at the beginning of the array using unshift.

**Return Result:**

Return the modified digits array.

1. **Flow chart**

**Start**

**(Initialize carry=1)**

**Iterate through digits array from right to left**

**Update digit with sum % 10**

**Calculate mid point**

**output**

**End**

**While left <= right**

**Add carry to current digit (sum = digit + carry)**

**Update carry with Math.floor(sum / 10)**

**Handle remaining carry (if any) (unshift to array)**

**YES**

**If nums[mid]**

**== target**

**No**

**Break the loop**

**Check for remaining**

**carry (carry === 0?)**

**Return modified digits array**

**End**

**End**

1. **Output**

