To determine is a number been skipped, check the last number of the array. For example, for an array containing a sequence of x consecutive positive integers starting with 1, if the last number is x, then no number is skipped. If the last number is x-1, then one number is skipped. Using Divide-and-conquer algorithm and above method, we can separate the array to two, named array starts from 1  $A_1$  and the other one  $A_2$ . Apply the method to find out in which array a number is skipped. Then separate the array to two, named the arrays  $A_3$  and  $A_4$ . Apply the method and separate again. One application and separation halve the array size. So, after n times, we are supposed to get two consecutive numbers. In fact, we would only get one. The missed one is the number been skipped. O(n)