## 1.Easy\11.Max\_consecutive\_1's.cpp

```
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 2
   QUESTION: -
    Given an array nums containing n distinct numbers in the range [0, n], return the only number
    in the range that is missing from the array.
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    Example 1:
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   Input: nums = [3,0,1]
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   Output: 2
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    Explanation: n = 3 since there are 3 numbers, so all numbers are in the range [0,3]. 2 is the
    missing number in the range since it does not appear in nums.
   Example 2:
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   Input: nums = [0,1]
13
    Output: 2
    Explanation: n = 2 since there are 2 numbers, so all numbers are in the range [0,2]. 2 is the
14
    missing number in the range since it does not appear in nums.
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    */
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17
    /*
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   APPROACH: -
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    -> Traverse the entire array and within it run a loop while element's are equal to 1 and
    store the count
    -> Update the ans as max(ans,cnt)
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   */
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   // CODE:-
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    int findMaxConsecutiveOnes(vector<int> &nums)
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    {
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        int ans = 0;
        for (int i = 0; i < nums.size(); i++)</pre>
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29
            int cnt = 0; // to store the count of consecutive 1's
            while (i < nums.size() && nums[i] == 1)</pre>
30
31
            {
32
                cnt++;
33
                i++;
34
35
            ans = max(ans, cnt);
36
        }
37
        return ans;
38
    }
39
   // TIME COMPLEXITY = O(N)
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    // SPACE COMPLEXITY = O(0)
41
42
```