

LeetCode 485: Max Consecutive Ones

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Here I presented a pseudo-code to solve the 485th question of LeetCode: Max Consecutive Ones.

The description of this question is that given a binary array `nums`, return the maximum number of consecutive 1's in the array.

The constraints are:

1. $1 \leq \text{nums.length} \leq 10^5$.
2. `nums[i]` is either 0 or 1.

The pseudo-code is as follows:

Algorithm 1: Max Consecutive Ones

Input: int `nums[]`

Output: int `ans`

```
1 count  $\leftarrow$  0;
2 result  $\leftarrow$  0;
3 ans  $\leftarrow$  0;
4 size  $\leftarrow$  length(nums);
5 if size = 0 then
6   | return ans;                                /* ans = 0 */
7 else
8   | i  $\leftarrow$  0;
9   | while i < size do
10    | if nums[i] == 1 then
11    | | count  $\leftarrow$  count + 1;
12    | else
13    | | result  $\leftarrow$  max(result, count);
14    | | count  $\leftarrow$  0;
15    | end
16  | end
17  | ans  $\leftarrow$  max(result, count);
18  | return ans;
19 end
```
