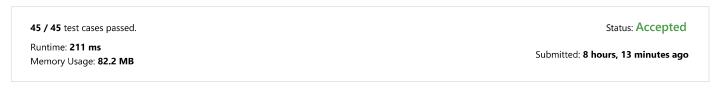
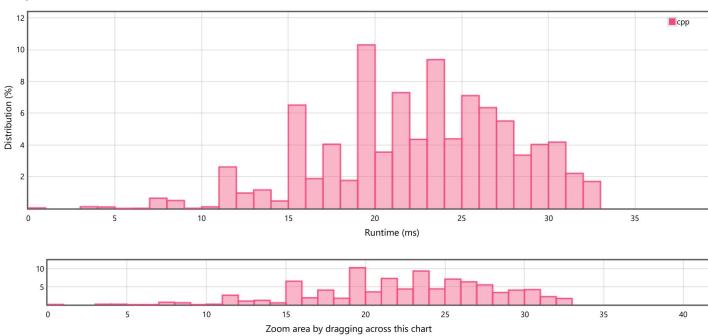
Majority Element (/problems/majority-element/)

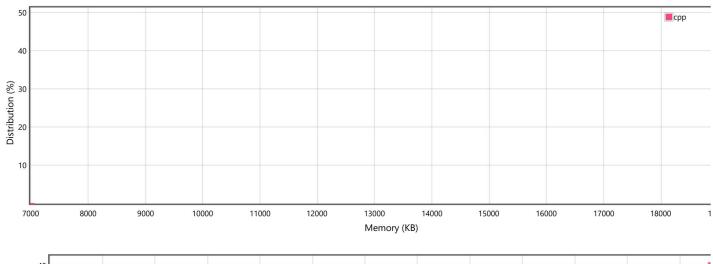
Submission Detail

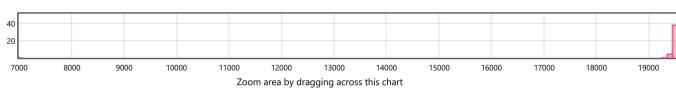


Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution





Invite friends to challenge Majority Element

Submitted Code: 8 hours, 13 minutes ago

Language: cpp

Edit Code

- class Solution { public:

```
void merge(vector<int>& nums, int 1, int mid, int r){
              int p1 = mid - 1 + 1;
 6
              int p2 = r - mid;
 8
              vector<int> A1(p1);
             vector<int> A2(p2);
10
              for (int i = 0; i < p1; i++)
11
12
                  A1[i] = nums[1 + i];
13
             for (int j = 0; j < p2; j++)
        A2[j] = nums[mid + 1 + j];</pre>
14
15
16
17
              int iterA1, iterA2, iterNums;
18
             iterA1 = 0;
iterA2 = 0;
19
              iterNums = 1;
20
21
             while (iterA1 < p1 && iterA2 < p2) {
    if (A1[iterA1] <= A2[iterA2]) {</pre>
22
23
                       nums[iterNums] = A1[iterA1];
24
25
                       iterA1++;
26
                  } else {
                       nums[iterNums] = A2[iterA2];
27
28
                       iterA2++;
29
30
                  iterNums++;
31
32
33
              while (iterA1 < p1) {
34
                  nums[iterNums] = A1[iterA1];
35
                  iterA1++;
                  iterNums++;
36
37
38
             while (iterA2 < p2) {
39
                  nums[iterNums] = A2[iterA2];
40
41
                  iterA2++;
42
                  iterNums++;
43
              }
44
45
         }
46
47
         void mergeSort(vector<int>& nums, int 1, int r){
48
              if(1<r){}
                  int mid = (1 + (r-1)) / 2;
49
50
51
                  mergeSort(nums, 1, mid);
52
                  mergeSort(nums, mid + 1, r);
53
54
                  merge(nums, 1, mid, r);
55
              }
56
57
         }
58
59
         int majorityElement(vector<int>& nums) {
60
              int count = 0;
61
              int max;
62
              int max_count = 0;
64
              mergeSort(nums, 0, nums.size() - 1);
65
66
              max = nums[0];
              for (int i = 0; i < nums.size(); ++i) {</pre>
67
68
                  count++;
69
                  if(i!= nums.size()-1){
70
                       if (nums[i] != nums[i + 1]) {
                           if (count > max_count) {
71
72
                                max count = count;
73
                                max = nums[i];
74
                                count = 0;
75
                           }
76
                  }else if(i == nums.size()-1){
77
                      if (count > max_count) {
    max_count = count;
78
79
                           max = nums[i];
80
                           count = 0;
81
82
                       }
83
                  }
84
85
              }
86
87
              return max;
88
```

Back to problem (/problems/majority-element/)

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