Asteroid Collision (/problems/asteroid-collision/)

Submission Detail

275 / 275 test cases passed.
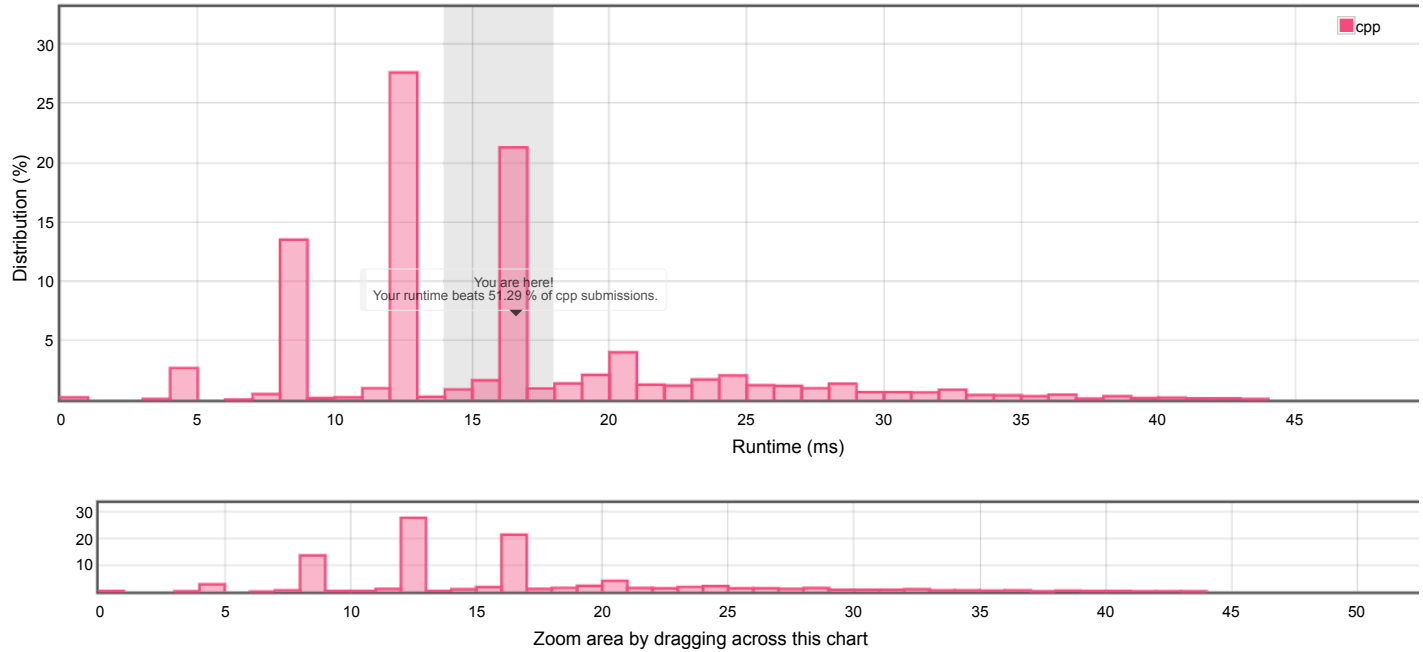
Runtime: **16 ms**
Memory Usage: **18.1 MB**
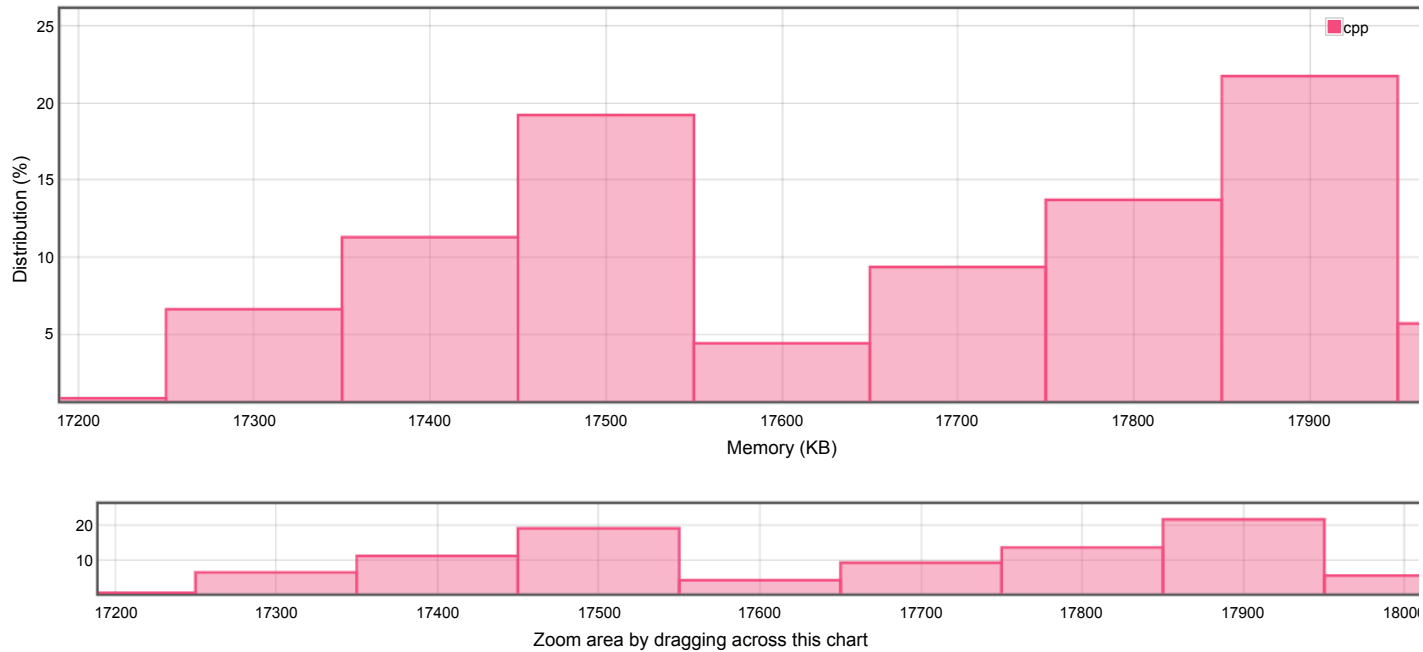
Status: Accepted

Submitted: **0 minutes ago**

Accepted Solutions Runtime Distribution

Accepted Solutions Memory Distribution

Invite friends to challenge **Asteroid Collision**

Submitted Code: 0 minutes ago

Language: cpp

Edit Code

```
1  class Solution {
2  public:
```

```cpp
 3      vector<int> asteroidCollision(vector<int>& asteroids) {
 4          stack<int> RES;
 5          for (auto y: asteroids)
 6          {
 7              while (!RES.empty() && (RES.top() > 0 && y < 0))
 8              {
 9                  int x = RES.top();
10                  RES.pop();
11
12                  if (x + y == 0) {
13                      y = 0;
14                      break;
15                  }
16                  //el valor absoluto representa su tamaño y el signo representa su dirección
17                  if (abs(x) > abs(y))
18                  {
19                      y = x;
20                  }
21              }
22
23              if (y)
24              {
25                  RES.push(y);
26              }
27
28          }
29
30          vector<int> ans(RES.size());
31          int n=ans.size();
32          for (int i =n-1; i>= 0; i--)
33          {
34              ans[i] = RES.top();
35              RES.pop();
36          }
37          return ans;
38      }
39  };
40
```

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