

#15 Days of Coding Challenge

#Day 13

Asteriod collision

#Leetcode 735

Solution:

```
class Solution {
public:
    vector<int> asteroidCollision(vector<int>& asteroid) {
        vector<int>st;
        for(int a:asteroid){
            while(!st.empty() && st.back()>0 && a<0){
                if (st.back() < -a) {
                    st.pop_back();
                    continue;
                } else if (st.back() == -a) {
                    st.pop_back();
                }
                a=0;
                break;
            }
            if(a!=0){
                st.push_back(a);
            }
        }
        return st;
    }
};
```

Time Complexity: $O(n)$

Space Complexity: $O(n)$