ASTEROID COLLISION

```java
class Solution {
    public int[] asteroidCollision(int[] asteroids) {
        Stack<Integer> st = new Stack<>();
        for(int a:asteroids){
            boolean destroy=false;
            while(!st.isEmpty() && st.peek()>0 && a<0)
            {
                if(Math.abs(st.peek())<Math.abs(a))
                {
                    st.pop();
                }
                else if(Math.abs(st.peek()) == Math.abs(a))
                {
                    st.pop();
                    destroy=true;
                    break;
                }
                else{
                    destroy=true;
                    break;
                }
            }
            if(!destroy){
                st.push(a);
            }
        }
        int[] res = new int[st.size()];
        for(int i= res.length-1;i>=0;i--)
```

```
            {
                res[i]=st.pop();
            }
            return res;
        }
}
```