

Avoid Collision

Collision Rule \rightarrow



Ans

$$B | 10 | -5$$

$$\begin{array}{c} \rightarrow \leftarrow \\ \searrow \rightarrow \\ B | 10 \end{array}$$

Ans

$$1 | -2 | 10 | -5$$

$$\begin{array}{c} \rightarrow \leftarrow \\ \searrow \rightarrow \\ -2 | 10 | -5 \end{array}$$

$$-2 | 10 | -5 \Rightarrow -2 | 10$$

M1 \rightarrow Stack

$$\Rightarrow \begin{array}{c} 0 \quad 1 \quad 2 \quad 3 \\ \cancel{1} | -2 | 10 | -5 \\ \quad \quad \quad \nearrow \quad \nearrow \end{array}$$

if (Right more)
 \Rightarrow push
else
Collide

10
-2

Ans $\rightarrow -2 \quad 10$

st.top = +ve
asteroid \Rightarrow -ve } Collision Possible

Note \rightarrow

- (1) +ve Asteroid \Rightarrow Push
- (2) \rightarrow Top +ve Asteroid \rightarrow Neg
 \hookrightarrow Collide
- (3) \rightarrow Top -ve Ast + -ve \rightarrow Push

Some failed Cases \rightarrow

(1) $\rightarrow -1 \mid 8 \mid 2 \mid -3$

(1) $\rightarrow -1$

(2) $\rightarrow 8$

(3) $\rightarrow 2$

(4) $\rightarrow -3$



we should have a flag
destroy
where $destroy == true$
 $st.top > abs(ast)$
4 -3

destroy == false
if $st.top < abs(ast)$

so \rightarrow At last we can use destroy
if (!destroy) {
 st.push(ast)
}

$$\textcircled{11} \rightarrow -2 \mid 1 \mid 1 \mid -1$$

$$\text{act} = -1 \quad \leftarrow \begin{array}{|c|} \hline 1 \\ \hline 1 \\ \hline -2 \\ \hline \end{array}$$

break the
loop

↓

I will not breaking the loop