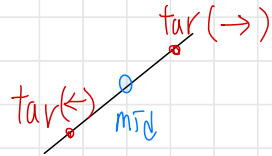
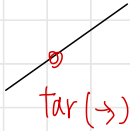
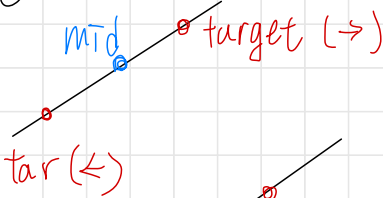


33

6 case:



if $\text{num}[r] < \text{num}[\text{mid}]$: # mid on left
 if $\text{target} \leq \text{num}[r]$: # tar on right
 $l = \text{mid} + 1$

else:

if $\text{target} > \text{num}[\text{mid}]$:
 $l = \text{mid} + 1$
 elif $\text{target} \leq \text{num}[\text{mid}]$:
 $r = \text{mid}$

elif $\text{num}[r] > \text{num}[\text{mid}]$: # mid on right

if $\text{tar} > \text{num}[r]$: # tar on left
 $r = \text{mid}$ (or $\text{mid} - 1$: mid can't be solution)

elif $\text{tar} \leq \text{num}[r]$: # tar on right

if $\text{tar} > \text{num}[\text{mid}]$
 $l = \text{mid} + 1$

else:
 $r = \text{mid}$

✓

✓

✓