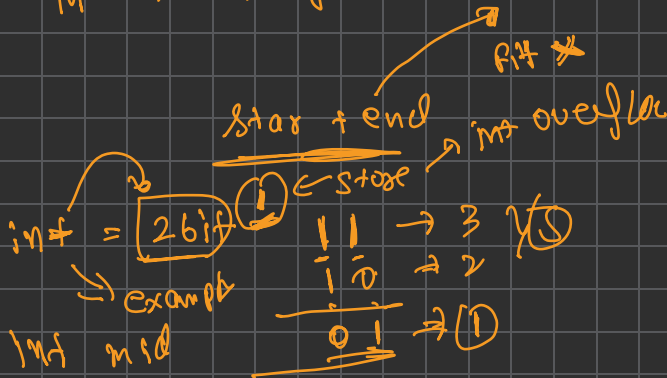


$$mid \rightarrow \left( \frac{start + (end - start)}{2} \right)$$

$$int \rightarrow 4 \text{ bytes} \xrightarrow{\times 8} 32 \text{ bit}$$



0 1 2 3 4 5 6  
 $[1, 2, 3, 3, 3, 4, 5]$

\* target = 3

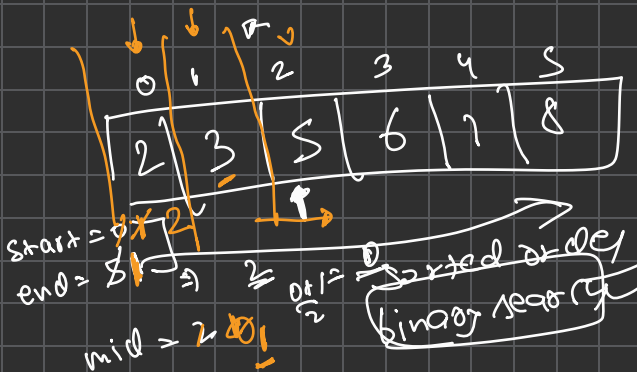
start = 0

end = 6

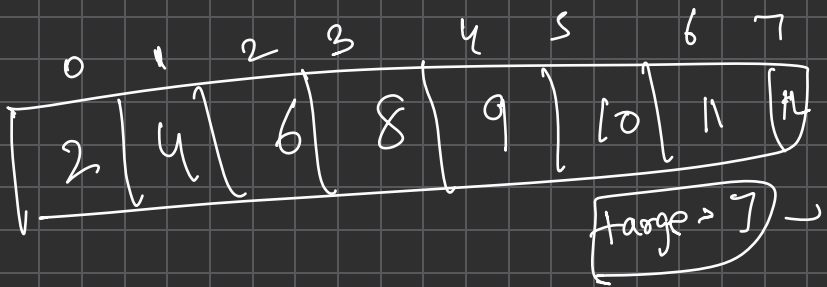
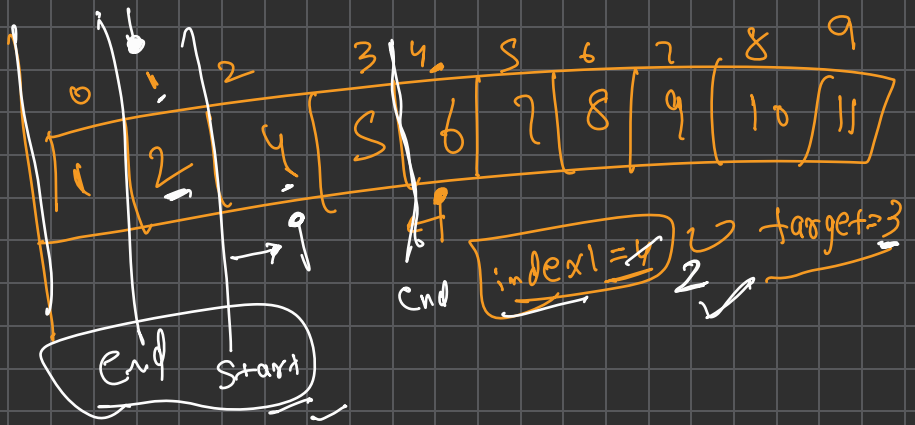
mid =

2 time  
Binary  
search

first index  
first index = 2  
last index = 3



target = 4  
 return  
 nothing



0	1	2	3	4	5
2	4	6	8	10	

arr.size

target = 12

index = n