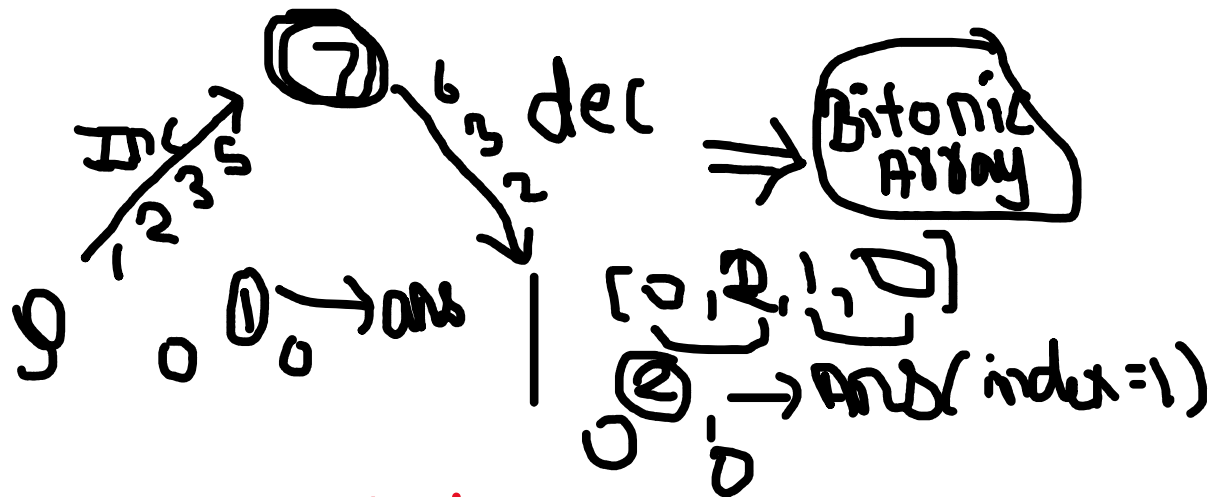


Q.6 Find Peak in mountain array

Thursday, January 23, 2025

8:51 AM

arr = [1, 2, 3, 5, 7, 6, 3, 2]



arr = [1, 2, 3, 5, 6, 4, 3, 2]

s m e

① If $e[mid] > e[mid+1]$

you are in the dec part of array

$\Rightarrow e = mid$

// checking left side s m e

② $e[mid] < e[mid+1] \Rightarrow$ you are in asc part of array

$\Rightarrow s = mid + 1$

s m mid+1 e

③ When will Loop Break?

^{0 1 2 3 4 5 6 7 8}
1, 2, 3, 4, 5, 6, 4, 3, 2
_{s m e}

6, 4, 3, 2
_{s m e}

6, 4
_{s e}
_m



6
_{s, e}



In the end,
start & end
both point to
Peak element

Ans