Array-10

26 November 2025 20:49

Single Non-Duplicate

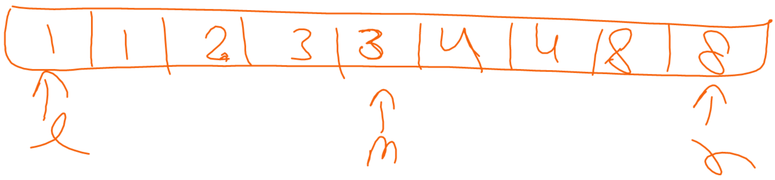
{1, 1, 2, 3, 3, 4, 4, 8, 8}

n = 9

l = 0, r = 8

while (l < r)

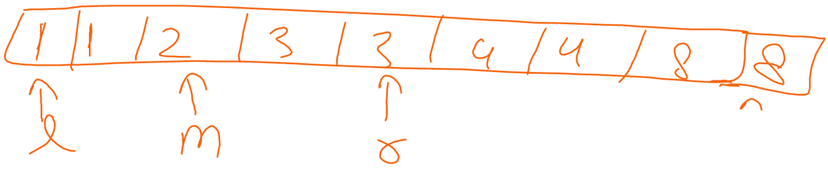
$m = 0 + \left(\frac{8-0}{2}\right) \Rightarrow 4$



m = 4 => even

[m] ≠ (m+1] => Single is in left => r = m

r = 4



$m = 0 + \left(\frac{4-0}{2}\right) = 2$

m = 2 => even

m ≠ m+1 => Single in left

=> r = m

m = 1 => odd

m = m - 1 => 0

So mid => mid + 1 => l = m + 2 => 0 + 2 => 2

So l = r, Return l => Return 2