





Element Appearing

25%



Facebook] > code storywith MIK

(Twitter) > CS with MIK

codestorywith MIK ->





1287. Element Appearing More Than 25% In Sorted Array

Hint

(0-)1













Given an integer array **sorted** in non-decreasing order, there is exactly one integer in the array that occurs more than 25% of the time, return that integer.

Example:

$$ww = \{1, 2, 2, 6, 6, 6, 6, 7, 10\}$$

Approach - 1:

$$T \cdot C = O(n)$$

PPMoach-2

(sorter)

$$Cuu = \begin{cases} 1, 2, 2, 6, 6, 6, 6, 6, 7, 10 \end{cases}, n = 9$$

$$an(i] == an(i+2)$$

$$an(3) == an(5)$$

18eq = 11/4 - 9/4=2

Jxeq = n/4 ;

$$for(i=0; i< n-fra; i++) f$$

$$i | (wr[i] == wr[i+frag]) f$$

$$y = fun wer[i];$$

$$y$$

retur -1:

Approach-3

(Binary Search)
(sorted ouray)

$$Que = \left\{ \begin{array}{c} 1, & \frac{1}{2}, & \frac{2}{2}, & \frac{3}{6}, & \frac{4}{6}, & \frac{6}{6}, & \frac{7}{4}, & \frac{8}{10} \end{array} \right\}, n = 9$$

$$lq1 = 3$$
 $right = 6$
 $= 3$

$$\frac{\eta/4 = 9/4 = 2}{\sqrt{2}}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$(n/4) = 1/4 = 2$$

 $(n/2) = 9/2 = 9$

$$(3 \times n/4) = 3 \times 2 = 6$$



