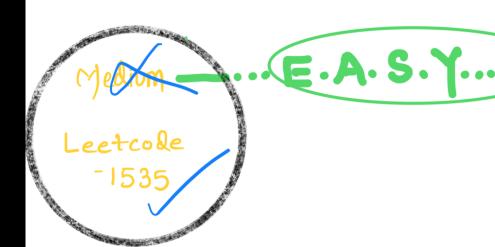
## ARRAY: Video-(67)





## Find the Winner

Of an Array Game

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## 1535. Find the Winner of an Array Game

Hint

Medium









Given an integer array arr of distinct integers and an integer k.

A game will be played between the first two elements of the array (i.e. arr [0] and) arr[1]). In each round of the game, we compare [arr[0]] with [arr[1]], the larger integer wins and remains at position 0, and the smaller integer moves to the end of the array. The game ends when an integer wins k consecutive rounds.

Return the integer which will win the game.

It is **guaranteed** that there will be a winner of the game.

Example: 
$$Cove = \{X, X, 5, 4, 6, 7, \}$$

$$Cove = \{X, X, 5, 4, 6, 7, \}$$

$$Cove = \{X, 25, 68, 35, 42, 70\}$$

$$K = 3$$

$$Coulput = 68$$

25, 68, 35, 42, 70, 13 (68, 3) \{68, 42, 70, 1, 25, 35\}

## Optimal Solution

e. Intuition"

 $ove = \{2, 1, 3, 5, 4, 6, 7\}$  K = 2

5, 4, 6, 7, 1}  $\{2,3,$ (3, 5, 4, 6, 7, 1, 2) 3} { 5, 4, 6, 7, 1, 2, 6, 7, 1, 2, 3, 4} 56,7 1, 2, 3,4,5} (7, 4, 5, 6, 1, 2, 3...s mar-eli-3 OHH =

$$\begin{cases} 3, 1, 2 \end{cases}$$
 $\begin{cases} 3, 2, 13 \end{cases}$ 
 $\begin{cases} 3, 1, 2 \end{cases}$ 
 $\begin{cases} 3, 1, 2 \end{cases}$ 

i] (K >=n) yetun maxfle;

As soon as you reach max element (oth index), return max element.

$$wer = \{1, 25, 68, 35, 42, 70\}, n = 6$$

$$K = 3/4$$

Winner = 1 28 68 70

Streak = 81281

il (Streak = = K | winner = = maxel)

seether winner;

deth. 68;

