

January  
2015

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Friday

023-342

def Rotate Array By 2 Element

places.

for example  
arr = [2, 7, 1, 3, 4]

if Rotate the array by 2 elements  
do what it does in it

Notice a pattern  
like

[2, 7, 1, 3, 4]  
0 1 2 3 4  
7, 1, 3, 4, 2

for the 2nd round it  
takes the current  
1st element & puts it last

[7, 1, 3, 4, 2]  
like  
1, 3, 4, 2, 7

[1, 3, 4, 2, 7]

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5th = Total Length of array  
[2, 7, 1, 3, 4]

Position

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if (k > length of array). for array

for example - 10 cycles [2, 7, 1, 3, 4]  
then it returns to same place

5 cycles + 5 cycles

In 5 cycles it returns to same

if they give a bigger no. than  
length of the array itself

we can exclude the  
redundant cycles

by putting the condition  $k = k \% \text{size}$

For ex -  $k = 10 \% 5 = 0$  so we return  
to start

Pseudo code

if (k > size)  
{  $k = k \% \text{size}$  }  
for (int i = k; i < size; i++)

{  $a2[i] = a1[i]$  }  
This pushes the remaining  
elements one place  
to the right

for (int i = 0; i < size; i++)  
{  
     $a2[i] = a1[i]$   
}

for (int i = 0; i < size; i++)  
{  
     $a2[i] = a1[i]$   
}

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