Notes

Friday, September 30, 2022 6:31 PM

Rotate an Array By N N=3

a b c d e | f g h

P_1 P_2

Reverse P_1 & P_2

e d c b a | h g f

Reverse entire

f g h a b c d e → Req Array

$P_1 + P_2$

P_1' , P_2' → Reverse

$(P_1' + P_2')'$

P_2'' P_1''

P_2 P_1

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a b c d e | f g h

0 1 2 3 4 | 5 6 7

P_1 P_2

K = 3

a.len = 8

$P_1 \rightarrow$ [0 — a.length − 1 − K.]

$P_2 \rightarrow$ [a.len − K ... a.leng − 1]

Imp

Do mod first

then make then

convert the -ve value

With Extra Space

Loop [n.leng − K ; n.length]

Loop [0 , n.leng K − K − 1]

VV IMP

K > nums.len K = 6

a, b, c d e,

6 % 5 = 1

only 1 rotation is required

K < 0 K = −1

a, b, c, d e

→ b, c, d, e a

K = K + nums.length

= −1 + 5

= 4

e a b c d 1

d e a b c 2

c d e a b 3

b c d e a

which means

K = −1 = K = 4

So, for K < 0

K = K + nums.length