

Problem: Rotate array by K times

Ex:- $\text{arr}() = \{3, -2, 1, 4, 6, 9, 8\}$, $k=3$

We have to rotate By 3 places

$\text{arr}() = \{3, -2, 1, 4, 6, 9, 8\}$, $k=3$

\downarrow
 $\{8, 3, -2, 1, 4, 6, 9\} \rightarrow k=1$

\downarrow
 $\{9, 8, 3, -2, 1, 4, 6\} \rightarrow k=2$

\downarrow
 $\{6, 9, 8, 3, -2, 1, 4\} \rightarrow k=3$

\downarrow
 $\{6, 9, 8, 3, -2, 1, 4\} \rightarrow k=3$

We have to return this array

Optimal Intuition

- ① Reverse whole array
- ② Reverse first k-Elements
- ③ Reverse the elements after k elements

Ex:- $\{3, -2, 1, 4, 6, 9, 8\}$

\downarrow Reverse whole array

$\{8, 9, 6, 4, 1, -2, 3\}$

\downarrow Reverse first k-Elements

$\{6, 9, 8, 4, 1, -2, 3\}$

\downarrow Reverse elements after k^{th} position

$\{6, 9, 8, 3, -2, 1, 4\}$

Our final array