

$\Rightarrow [1, 2, 3, 4, 5]$   
 $\Rightarrow [3, 2, 5, 4, 1]$

$\rightarrow [1, 2, 3]$   
 $\rightarrow [3, 5, 2]$

$\frac{51}{-}$        $\frac{52}{-}$



$1: 3$   
 $3: 1, 5$   
 $5: 3$

$0 \quad 1 \quad 2 \quad 3 \quad 4$   
 $[10, 19, 6, 3, 5]$   
 $[3, 5, 6, 10, 19]$   
 $[19, 10, 6, 3, 5]$   
 $[3, 5, 6, 10, 19]$

~~$[2, 8, 5, 4]$~~

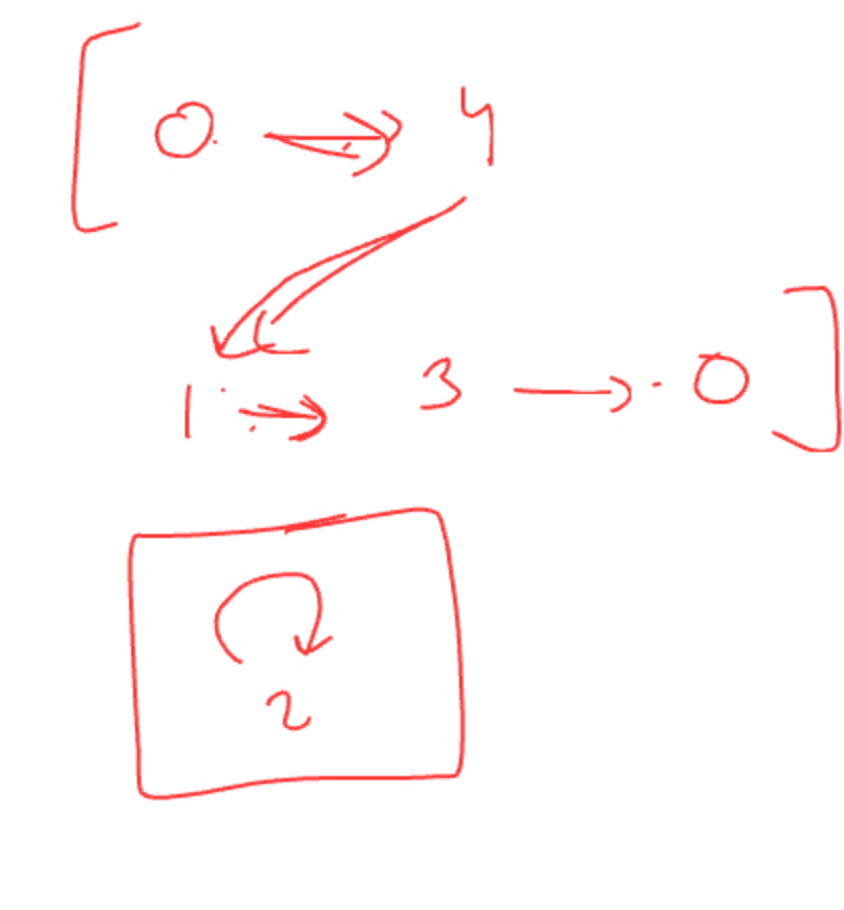
$3 \quad 5 \quad 6 \quad 19 \quad 19$   
 $[5, 3, 19, 6, 10]$   
 $[3, 5, 6, 10, 19]$

$1 \quad 2 \quad 3 \quad 4 \quad 5$   
 $[5, 4, 3, 2, 1]$

~~$[2, 2, 1]$~~

$TC: O(n \log n)$   
 $AS: O(n)$

$0 \quad 1 \quad 2 \quad 3 \quad 4$   
 $\rightarrow [19, 10, 6, 3, 5]$   
 $\rightarrow [3, 5, 6, 10, 19]$



$0 \quad 1$   
 $[2, 1]$   
 $[1, 2]$

$a \rightarrow b$

$0 \quad 1 \quad 2$   
 $[2, 3, 1]$   
 $[1, 2, 3]$

$0 \rightarrow 1 \rightarrow 2$

$A \rightarrow B, C, D$   
 $B \rightarrow C$   
 $C \rightarrow E, F$   
 $D \rightarrow E, F$

