

Problem:- Sort 0, 1, 2

input:- [0, 1, 1, 2, 0, 1, 2]

output:- [0, 0, 1, 1, 1, 2, 2]

Approach :-

① take three variables i, j & k
we will divide this array into
regions

initialise $i, j = 0$ and $k = \text{size} - 1$

so now partitions will be of

0 to $j-1 \rightarrow 0$

j to $i-1 \rightarrow 1$

k and ahead $\rightarrow 2$

Approach
continued

0 1 2 3 4 5
Input: nums = [0, 0, 1, 1, 1, 2]

Output: [0, 0, 1, 1, 2, 2]^{k↑}

i	j	k	ali)
0	0	5	2
0	0	4	0
1	1	4	0
2	2	4	2
2	2	3	1
3	2	3	1
4	2	3	2

$i \leq k$

$i < k$

DPy for chain

0	0	2
0	1	2

i	j	k	a[i]
0	0	2	1
1	0	2	0
2	1	2	2