* Counting Sort *

→ Let there be an array of elements with max Value "m" (arr)

→ Create another array of zeros with Size "m+1" (count_arr)

→ Parse through the array (arr); based on the value increment that particular index value in count_arr

→ Use non zero elements in count_arr to build the sorted_arr.

example: arr = [1, 2, 1, 3, 2]
         ↕
→ Here max value is 3, count_arr = [0,0,0,0]
                                     0   3

i	arr[i]	count arr 0 1 2 3
0	1	[0 1 0 0]
1	2	[0 1 1 0]
2	1	[0 2 1 0]
3	3	[0 2 1 1]
4	2	[0 2 2 1]

Now: count_arr → [0, 2, 2, 1]

i	c_a[i]
0	0
1	2
2	2
3	1

$2*2$
↑
[1, 1, 2, 2, 3]
↓
$1*2$ $3·1$