

Q15

1, 5, 3, 1, 2, 4, 5, 5, 1, 2

Index	Count	Sorted Numbers
0	0	1
1	3	1
2	2	1
3	1	2
4	1	2
5	3	3
6	0	4
7	0	5
8	0	5
9	0	5
10	0	5
...
255	0	

Counting

Index	0	1	2	3	4	5	6	7	8	9
Count	0	3	5	6	7	10	10	10	10	10

Index	:	1	2	3	4	5	6	7	8	9	10
Input Array	:	1	5	3	1	2	4	5	5	1	2
Output Array	:	1	1	1	2	2	3	4	5	5	5

Time Complexity :- $O(n+k)$ where n is the number of elements in input array and k is the range of input.