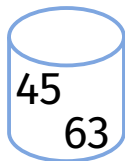
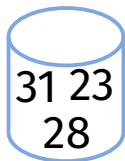
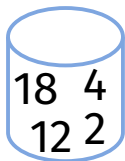


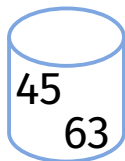
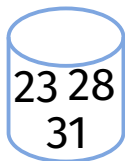
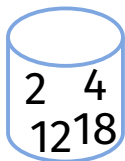
initial array: 31 18 23 4 12 28 45 63 2

1) range      0 - 20      21 - 41      42 - 63

2) buckets



3) sorted  
buckets



sorted array: 2 4 12 18 23 28 31 45 63