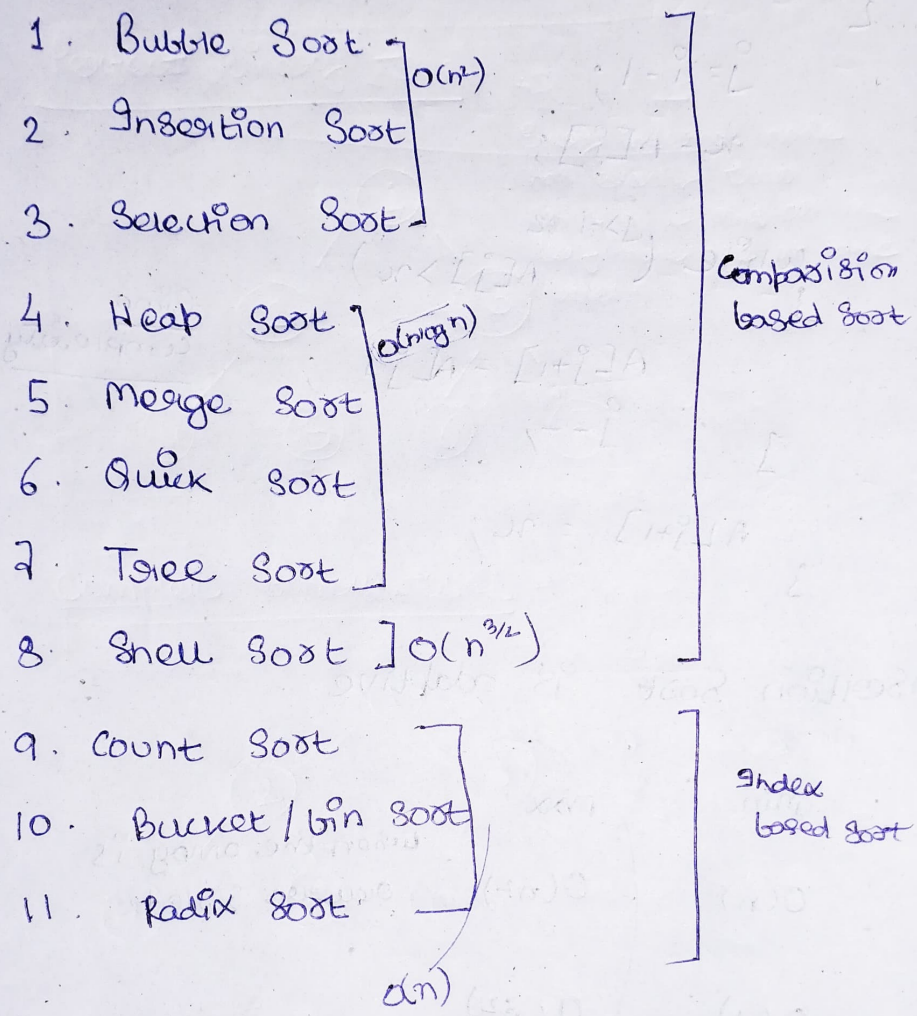
Criteria for analysis

1. No. of comparision.
2. No. of swaps
3. Adaptive
4. Stable
5. Extra memory.



Stable

Name	A	B	C	D	E	F	G
marks	5	8	6	4	6	7	10

↓ If after sorting C's 6 come before E's 6 then Stable

Name	D	A	C	E	F	B	G
marks	4	5	6	6	7	8	10

Bubble Sort

* Adaptive
* Stable

In k^{th} pass
k largest element

Selection Sort

No. of comparision = $\frac{n(n-1)}{2}$

No. of swap = $O(n^2)$

In k^{th} pass
k smallest element.