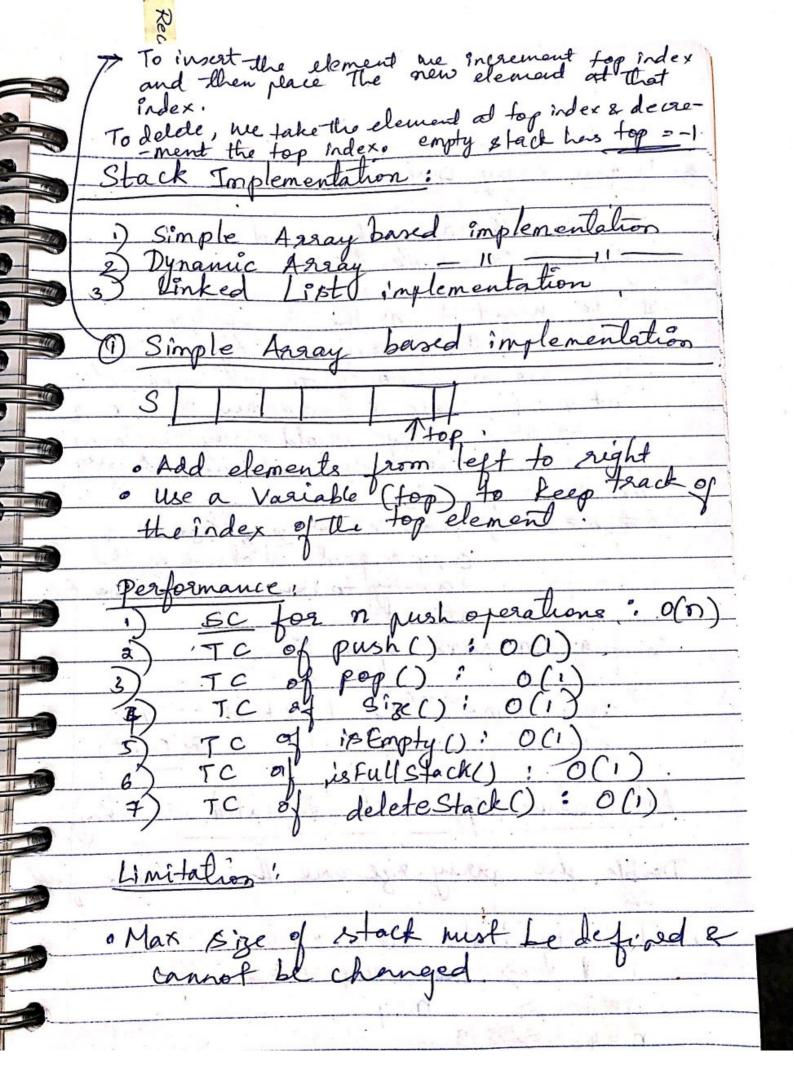
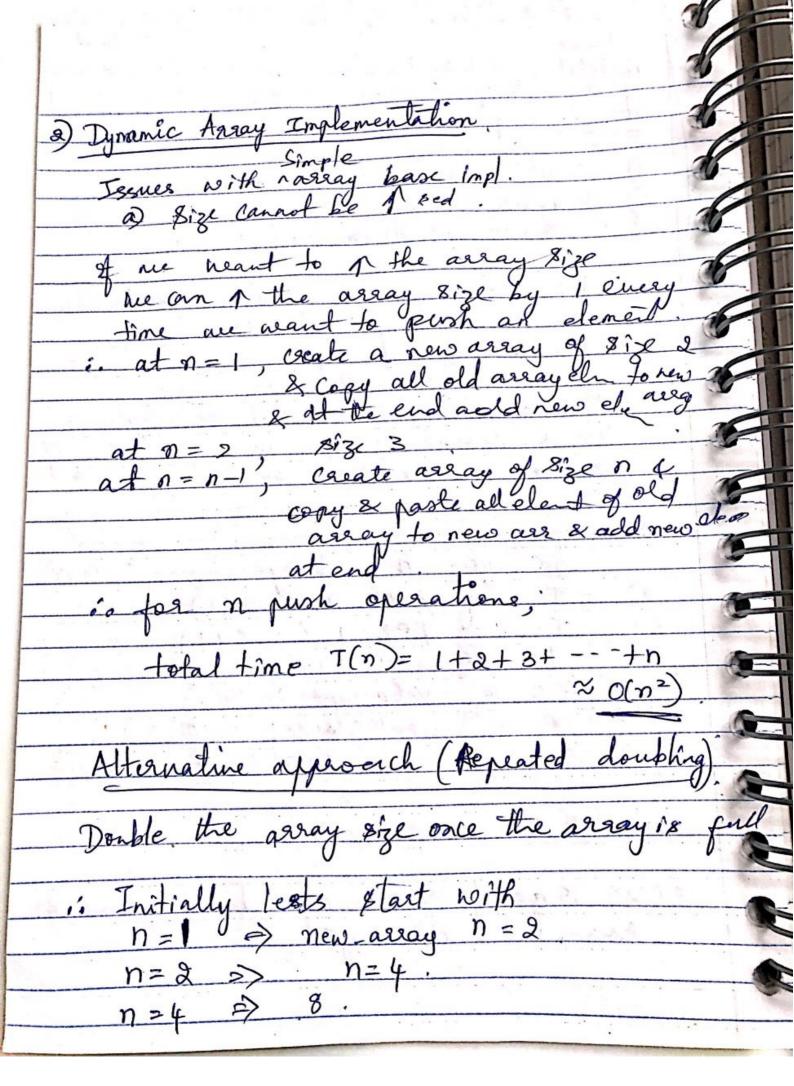
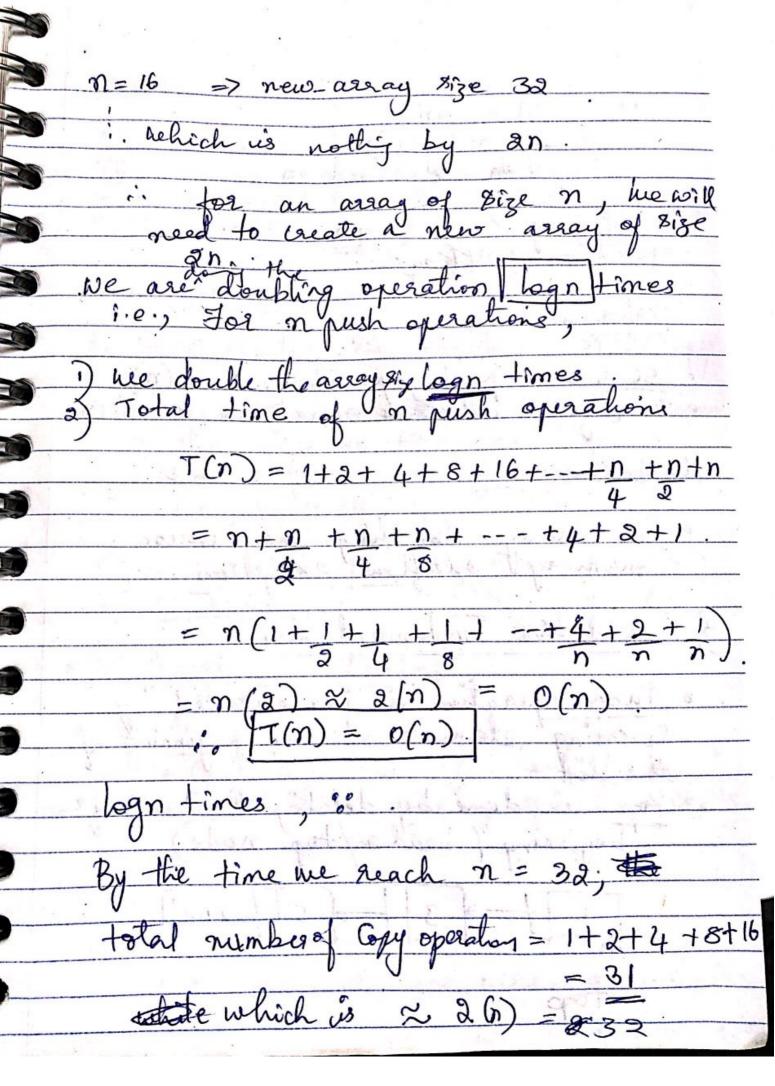
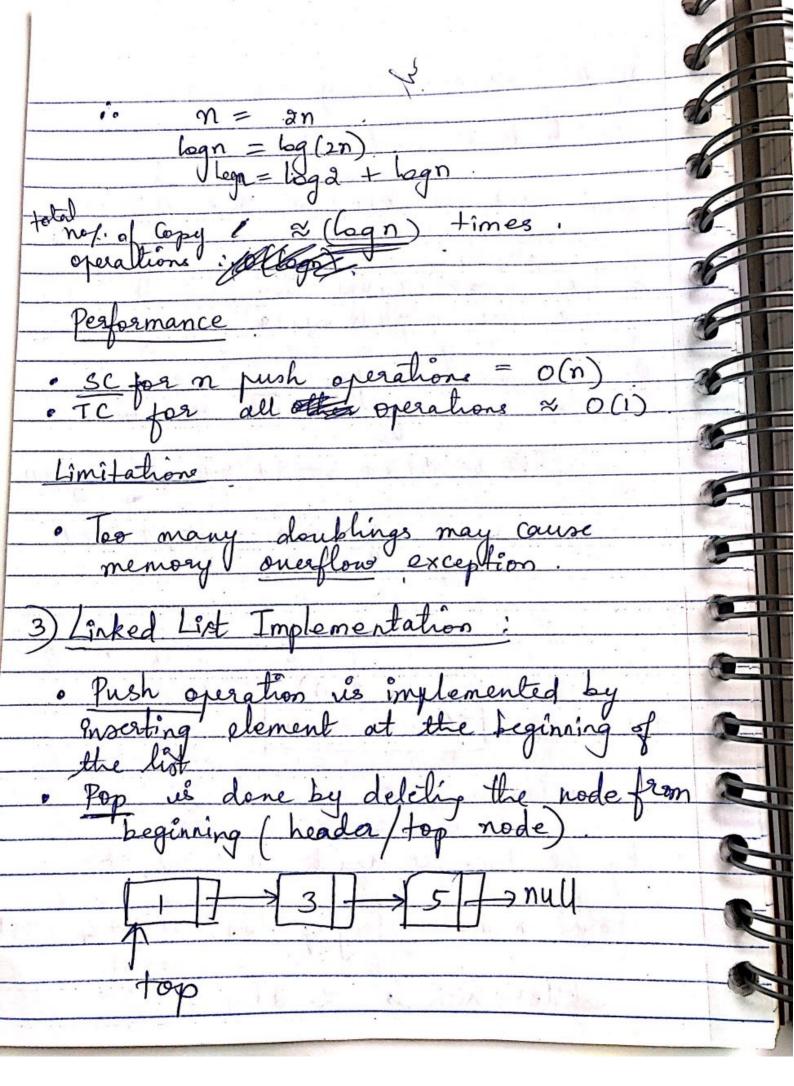
Stacks · The order in webich th painciple or Main stack operations







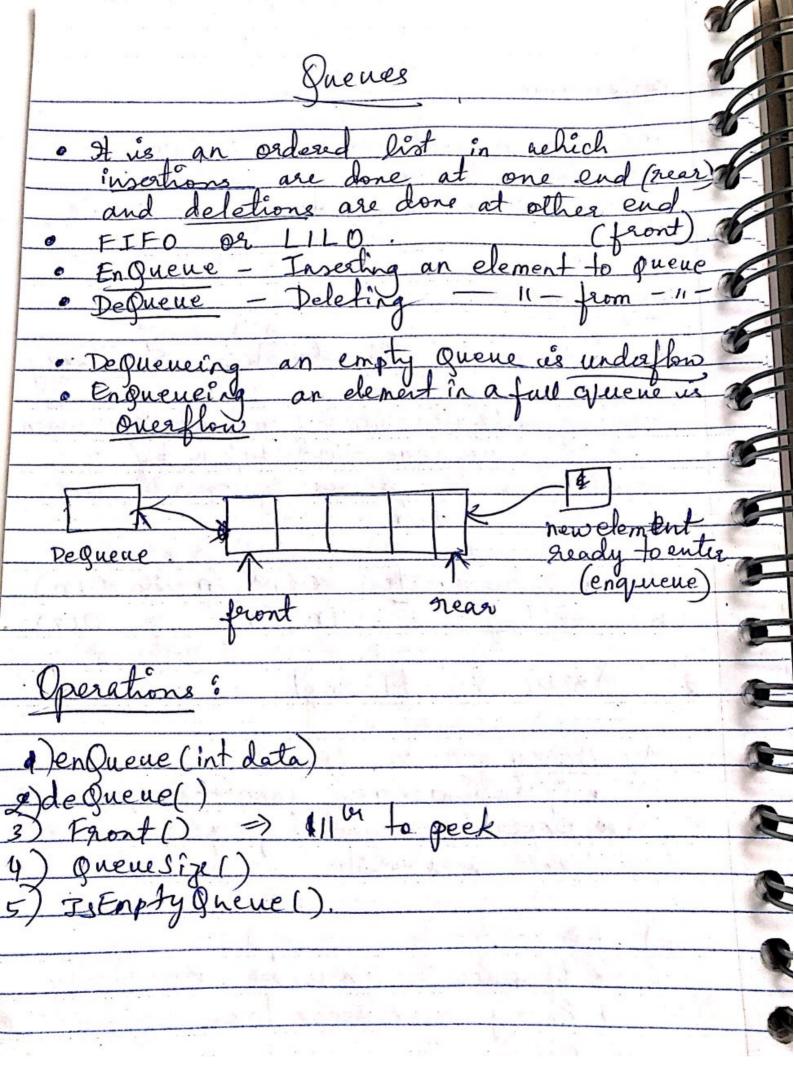


Performance SC for n push operations: O(n)
TC for other operations & O(1)
TC for But for delete Stack () & O(n) Comparissions 1) Incremental VS doubling Strategy The amortized time of a push operation is the querage time taken by a push oner the series of operations i.e., T(n)/n. a) for Incremental: $O(n^2)/n \approx$ b) Doubling: o(n)/n \approx 2) Array VS LLimpl a) Agray

Operations take constant time

Expensive doubling operation every

once in a whate o Energ operations takes constant time · uses extra space & time to deal with



Implementation uchy circular Arrays. o Insertions are performed at the other en enqueue. This publem can be solved by using in we treat the first array elements as Contiguous.

With this representation by the any free slots at the beginning, the great pointer can go to its next free.

