## Day\_8: DSA

```
Dry-8 Lesteode 206 Divide Array to Equal Pains
Class Solwing:
    def divideAmay (self, nums: List [int] ) -> hool:
          odd_set set()
          for n in nums:
              if n not in odd_set; } to element appeared frust
                   odd_set add (n) I time
                 odd_set. Homove(n) } If it opposed second tence
           Meturn len(odd-set) == 0 % All element one seproval as
                                   -they form pair
                           Hence siction Torge
                                      push ( =)
Queue using Lh
                                       push(2)
                                        push (3)
                                        pushes)
                                        dof
           13 End
                               for bob;
          TI Start
                              7 cmp= start 12 mm
      Stores NULL End
                                        -0(1)
                                         120b() }
   Node + start, end; - ols)
                                           IF ( Stort == NULL) -
                                        femp = start -> next
   SIZE = O
  push (x) }
                                          delete temp
     Node + temp = newNode (x)
                                         81xe -= 1;
         if ( slowt = = NULL) }
             Stout = end = tempo ;
                                        -top () { (stort = NOTE)
          end of next = temp
                                            Meterry steart + val
         size += 1;
```

Day\_8: DSA 1

```
· Implementing shock using Queue
   d - FIFO
                                                  push (4)
               is we need to yeverse
                                                   push (9)
                                                   push (2)
                                                   push (5)
                                                   top
       class st f
            quey kints q so(N)
                                                   pop
              push ( oc) {
                                                   top
                  8 = q. size
                                                   push (1)
              q. push(x)
                                                   40p
               for (i=1 \rightarrow s)
                                                 pop() {
                      q. push (q.top())
                                                    3 d. bob ()
                                                  70P2
                                                   Hetern q. top()
 Implementing Queue using Stock
                                              → S1 → S2
                                SI
                                               x -> 51
                                             L~ 32 ~ 31
  class of {
                                              Steps need to be followed.
                           7 TC = 0(2N)
     stack Kints st, st;
                                      -> Optimization push 1)
       base (x) {
          while (s1. sixe()) {
                                            push ( >c)
            52. push ( 51-top1 ))
                                              x -1 st
               51 · pop ()
                                              it (25 i = embth)
             31. pushex)
                                                sa. pop
             while ( saiste ( ) {
                                                else
Stasz
             51 - push ( S2- top())
                sz. popl)
                                                $2 . pop
                                             top1)
                                               if sa! = company
                                                  82. top
                                                 $1 -> 52
                                                  52 · top
```

Day\_8: DSA 2