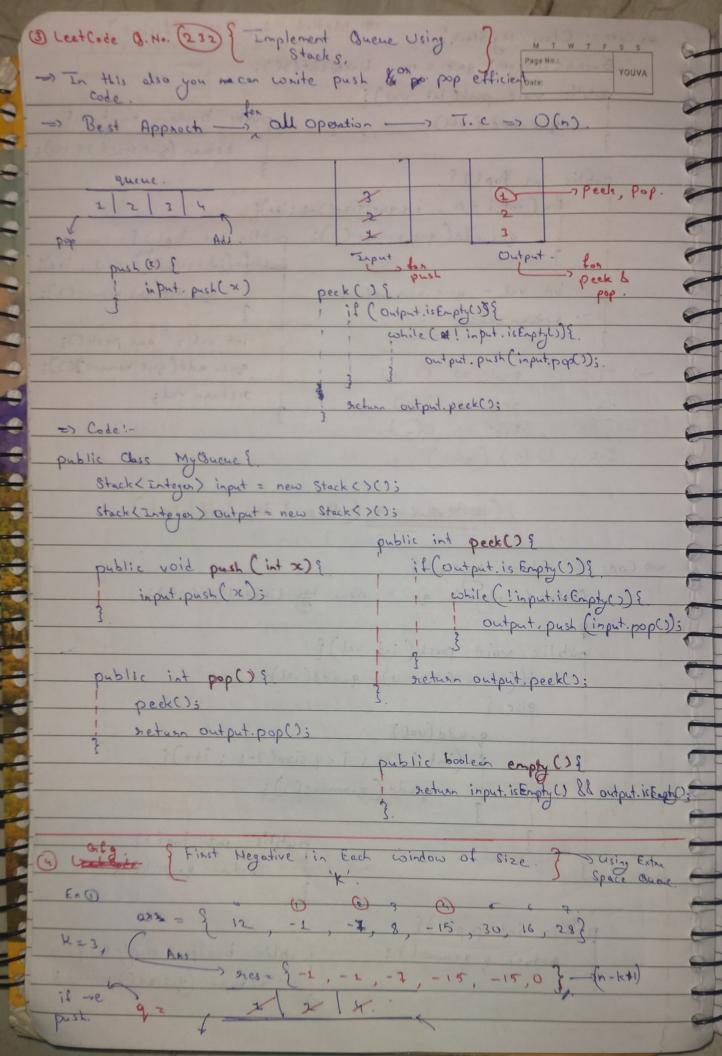


=> Code: - Class My Stack { # Method - 1 (Push efficient). Queue (Integer) que = new linked List ()(); public void push (int val) { public boolean empty() { que. add (val); neturn (que.size() ==0); public int Pop () {. for (int i = 0; i < que.size()-1; it+)} | que.add (que remove ()); public int top() { poststiton (int i=0; i < size()-1; i++) { que.add(que.nemove()); int val = que remove(); neturn vali int val = que-peek(); que. add(que. renove)()); -> T.C:- push => O(1) sictum val; . pop => 0(n) top =) O(n'). S.c: 0 (0) (que). # Method - 2 ( Pop & top efficient). Ouene ( Integer) que = new the linked list <>(): public void push (int val) { if (q. size() == 0) q. add (val); q.add(val) for(int i = 0; i < q. size()-1; i++){ q.add (q.nemore ()); public int top () { return q. peck(); public int pop(){ public boolean empty () { neturn q. renove(); neturn (q.size() ==0);



```
Ex 2:- ( 2) 3 4 5 ( 7 M T)

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   nes = {-1, -1, -1, 0, -16, -16} -1 (n- K+1)
  int() A = { 12, -1, +1, 8, -15, 30, 16, 28};
=> Code: - psvm() {
ink k = 3;
   int n = A. Length;
   int[] nes = new int[n-k+1];
  Oucue ( Integer) q = new linked list ()();
   for (int i = 0; i < n = i+) {
  il(A[i] < 0){.
     q.add(i);
   tox ( int i = 0; i < n-k+1; i++) {
    if (q.size() > 0 & & q.peek() < i)
        g. nemove ();
    if (q.size() > 0 && q.peck() <= i+k = 1) {
       nes[i] = A[q.peek()];
       else if (q. size() == 0)
        nes[i] = 0;
        . nes[i] = 0;
   for (int ele : nes) {
    , Sout ( ele + " ");
```

