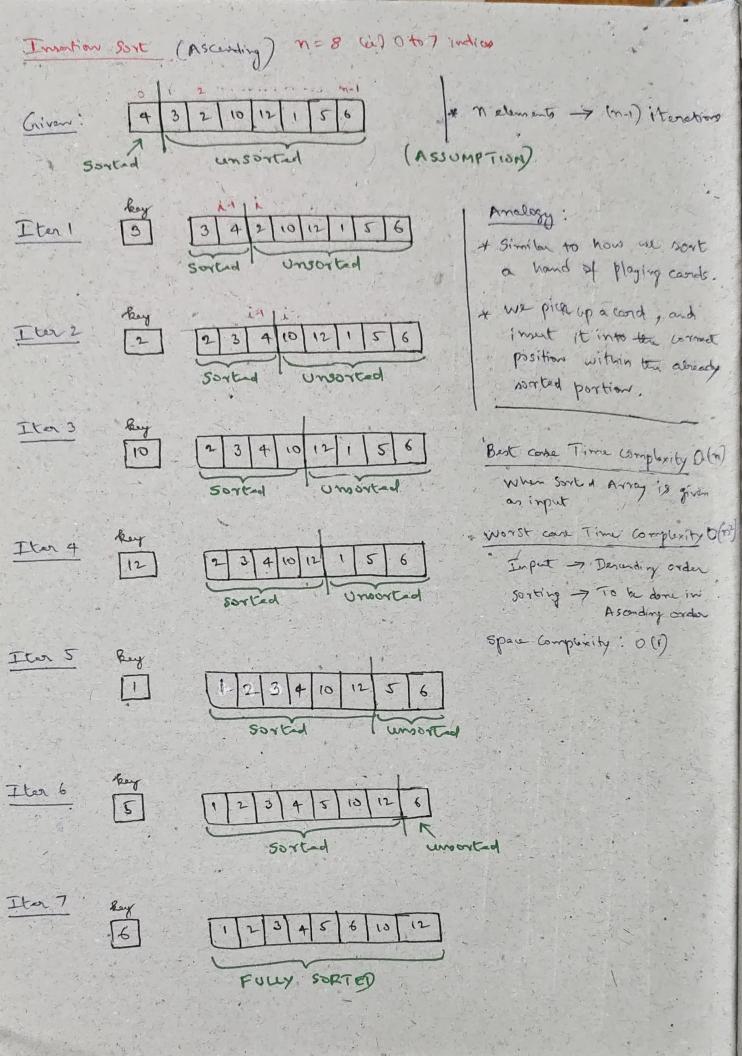
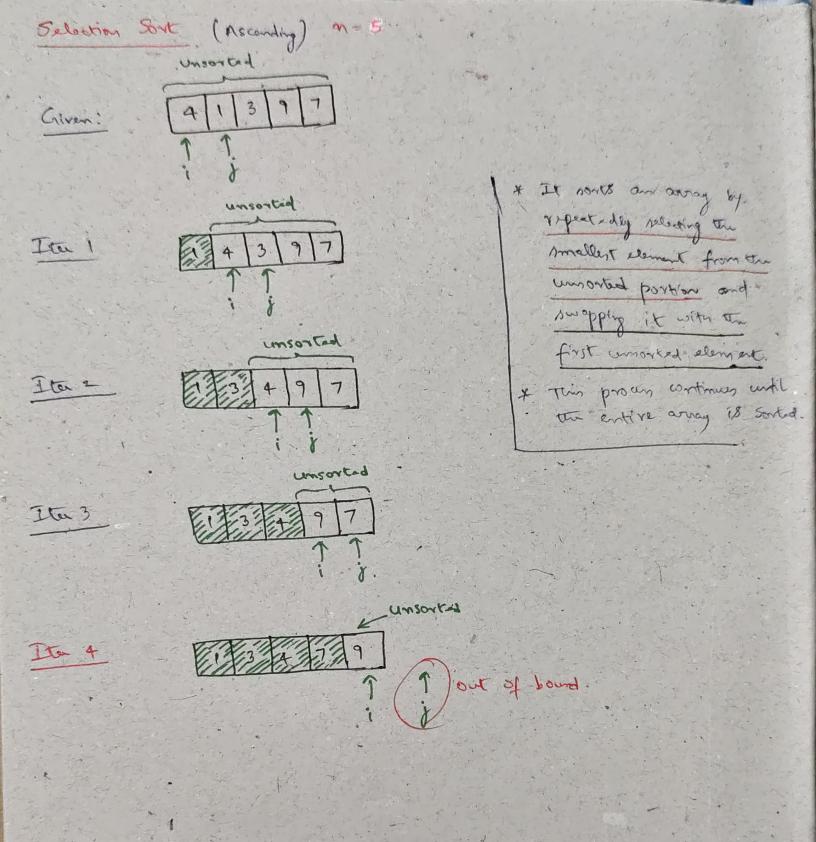
SORTING

Arranging elements of an average in Ascending / Descending Bubble Sort (Ascending) * Compare Adjacent elements Given: 13 32 26 35 10 * m elements Atel 1 13 26 32 10 35 m-1 Iterations space Comparity : 0(1) Ita 2 13 26 10 32 35 Time complexity: O(n2) (a) (n-1) x (n-1) = n2 I Cen 3 [13 10 26 32] 35/1 It sorted away is given as input, in the first Iter 4 10 /3/25/32/1/35/// traversel, there wont be ory Swapping. And a fleg variable, -class Solution { will not be incommented, 50, can be returned in Troid bubble Sort (int arr [], int m) { the potitization itself. Time Complexity: O(n) for (int i=0; i < n-1; i++) { [H(arr [j] > arr[j+]) [int temp = or []; an [[] = an [[+1]] - an (j+) = temp;



```
Clan Solution
 public
 rvoid investion Sort (int orn (), int n) [
   p-for (int i=1; 1 < n; 1++) [
             int key = ara [i];
            int j=1-1;
           f while (j > = 0 & & am (j) > mg) [
                   an [j+] = an [j];
             our (j+1) = key;
int main!) [
     Solution not;
      int an [] = [4, 3, 2, 10, 12, 1, 5, 6];
      int m = nize of (anr) / size of (our [o]);
      sol. invertion Sort (arm, n);
     for Lint 1=0; 12n; 1++)
            print (" . 1.d ", on (i));
```



- class Solution { public void salection Sort (int am [], int m) (for (int 120; 1< n-1; 1++) [int temp = i; - for (int j=i+1; j < m; j + t) (if (arr [j] < arr [temp]). temp = j; swap (arr [i), arr [temp]);