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Brogramming & Signment- 1
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Anghika khade Section-9

1) Longest Element in array

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Public static void main (Staing [] cags)?

int abort ] = new in-[] [25,11,3,2,56];

int max = 0;

for (int 9=0; i<abra length; i++) [

if (aborti] > max)

max = aborti];

J

System.out.parintln (max);

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2) Revose a given allay

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Public 8totic void main (String [] 2998) 2

int coor[] = new int[][25,11,3,2,56];

for (int ?=0;

int left = 0;

int right = addr. length-1;

while (left < night) 2

int temp = addr. left];

addr. left];

addr. left];

addr. left];

addr. left];

addr. left + t;

addr. left + t;
```

```
3) Second Largest Element
        Public Static int Secondlargest (int () and) ?
             if (ordinength <2) [
                                                            7.C=70(1)
S.C=70(1)
                 return null;
               int langest = Integer. KIIN_VALUE;
int secondlangest = Integer. MIN_VALUE;
                for (int i=0; i<000 . 1 length; i+1) {
                     "if Cosoce" I > largest) E
                         secondiargest = (argest;
                         Ichaest = a 2006 ];
                        I else if Carolin 28 tegend largest && maricial, =19298
                           2 second largest = aro [i];
                       return Scandlangest;
```

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) Check if allique is Sorted all not.
      Public Static bootean is Softed (int (I ass) ?
          ? ( 1 > Atgranisco) 7°
             Tretohn thue;
          for (int i=1; i< 222, length; i++)?
             if (asoci) < 000 [i-1]) 2
                newan false;
                                          T.C=70(n)
8.C=70(1)
          Jeturn thue;
5) Remove Duplicates from Sorted Alag
         Public ant remove Duplicates (antC) nums)?
           int n= noms. length;
           int 9 = 0;
           for (int j=1; i<n; itt) {
                                               T.C=70(n)
S.C=70(s)
              of Courses != nomes ] ) ?
                 nums(i) = nums(j)
             Jetusin itt;
```

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6) Rotate a goven array
      Public Static void notakeAssay (int C) ass, int k) 9.
        3 (0== attendiction // 1100==100) [
            neurse?
        it (K==0)
           newer;
        grevoise (aso, O, asor length -D;
         revorse (099, 0, K-V;
         TOURSE (ash, K, ash length-1);
      Public static void reverse (int CJOSS, int stast, intend)?
        while (start < end) &
         int temp= alaCstant]:
          Con [stoot] = orn [end];
                                          T. C=70(n)
          ord Cend ] = temp;
                                          S.C=> O(1)
          Stort ++;
       3 end --;
```

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7) Find frequency of elements in a goven assay
        Public Static Maposinteger, Integers find they (int CI and E
          Map < Integer, Integer> map = new Hashkap <> ();
           for (int num: color) 2
              map. put (num, map. get On De-fault (num, 0)+1);
            - Grea
                                                T.C=70(n)
                                                 S.C=70(0)
            Seturn map;
  8) Merge two Sonted arrays
       Public Static int [] monge (int[] nums], int m, int CInums?
                                   int n) 2
          int de m-1;
                                               T.C =7 (0(m+n)
          :1-11 = i +n?
                                               Sc =70(1)
          int K= m+n-1;
          3(0= < j 88 0= < 0) 2
             if (nums Lil) I zonums Lill
                nomsICK]= nomsICJ;
                 1--',
              zerser
                  nomstck] =nomsscj];
             2 (0>=0) E
                nums 1 [K] = nums 2 [j];
             Lemon newser ;
```