Kongu Engineering College School of Communication and Computer Sciences Department of Computer Scinece and Engineering FOLLOWUP ACTIONS FOR THE FAILED STUDENTS Module Test - I

Max Marks

Subject Code 20.01.2018

Design and Analysis of Algorithms II & IV & B sec Name of the Subject Class Remedial measures Remedial n (Assignment, special (Assignment SI. session, etc...) **Student Name** session Register No No Register SI. Student Name No No KAYALVIZHI C 16CSL238 MOBIN P BENNY 16CSL239 PAVITHRA A 16CSL240 GAYATHRI A 16CSR060 GOKUL S 16CSR062 HARIHARAN V P 16CSR067 HARRISH S J 16CSR068 8 15CSR077 JAIVIGNESH D Assignment 9 | 16CSR081 | JEEVANANTH S 10 16CSR087 KARTHICK M 11 16CSR089 KARTHIK M 12 | 16CSR094 | KAVIN M 13 16CSR096 KAVINKUMAR M 14 | 16CSR100 | KAVYA S 15 | 16CSR101 | KAYALVIZHI R 16 16CSR108 MAHENDRAN A P

Name of the Subject I/C

Date of Exam

R KARTHIKEYAN
16CSRO91

DAA ASSIGNMEND

Horr

QUICK SOFF AVEROGE COSE (CF)=T(8)+CR)+CR -8)= 4+co)+4+co)+6+c2)... = +cu-D 10-1)=4100-1)+7100-5) ... 7105)+7+00 でかきままりままましていり mutter by non both side nton = 2 5 + cg) + n2 -> (2) ULUN= 55, 4087+00-13-73 いたのりーでーカナのションナルーのナルーにして nT(n)=2T(n-1)+(n-1)+n-18-1420 0700)=TC0-1)(2+n-1)420-1 Man = (n+1) - (n-1) + 2n - xa) 24cm) = (240)+ CU-1) + 34 (U+1) 100) = + cn-1) + 341 100) = +00-1) + 5 L T(n) = +(n-2) + 2 + 2 + 2 | n+1 T(n) = T(n-3) + 2 + 2 + 2 + 2 + 2 In Fereral

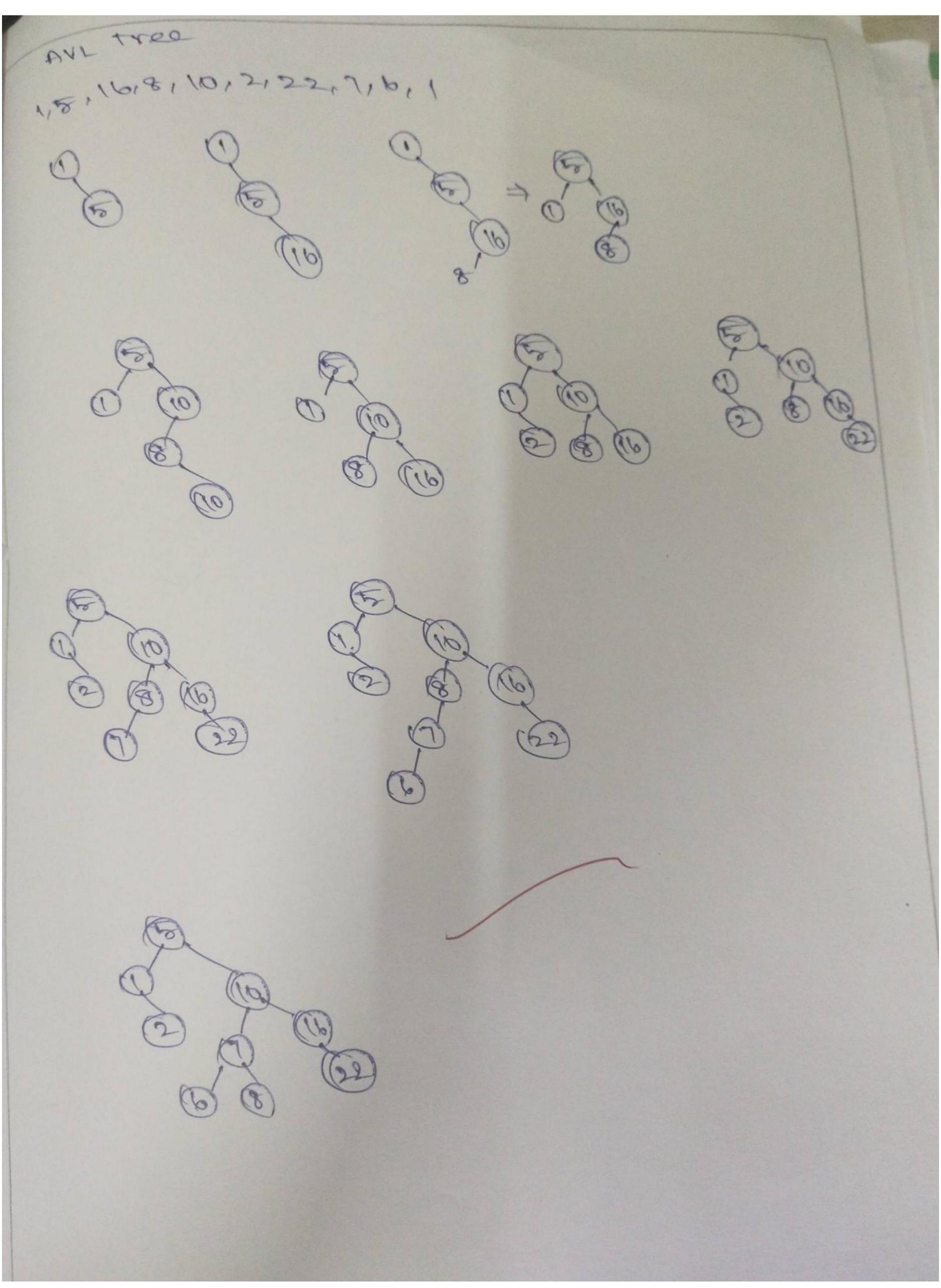
724 251 1 = 108 (N+1) Ia) = (08cut 1) 2007 (44) 108 (44) 1(2) € 0 (2108 V)

NII A12 BII BIZ 31=3-1=2 52=1+2=3 P1=1.00)=2 28=3+4=7 P2=3(1)=3 34=2-4=2 83=7CA)-28 55 = 1+4=5 86=4+1-5 B-=127=8 27=3-4=-1 88=241=3 6-1-14 510= 4+3=7 2-28+25+14]

Insertion sort (A Lo... n-1) Mar & EO ... V - B ON V Contract & CO ... N-C] tox ; F 1 101-1 90 VERC91 8-9-1 OPALLEDA PUDOTE BURN [824 - Ot 82 A 8 € 2 - 1 V - 17+ 80 A 13) Brute Force (NEars 1,0,0) AB vomers in Earli, o, w) Count = 0 COOH 1=97 20th 2 Jf (a[9] = 'a' 1 'e' 1 '9' 1' o' ju' count = count +1 return court 700)= = 5 = tens = our)

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DIESONAS CULOSONA D-1.00 A MART enst muses e182 & False 70x 65 0 FON = 5 S 00 17 + 12 A = [17 A t9 recum False ELLAN THUR 213 wordszorf (4 [0 ... u-1]) 120 0088 4 [0. . N2] to B [0 ... N2] 0094 A [N2 +1 ... N-17 to C CO --- N12] WERDEZORF (BEO. -. 015]) Nexder (C ro. "Wo3) W6288208F (B'C'V)

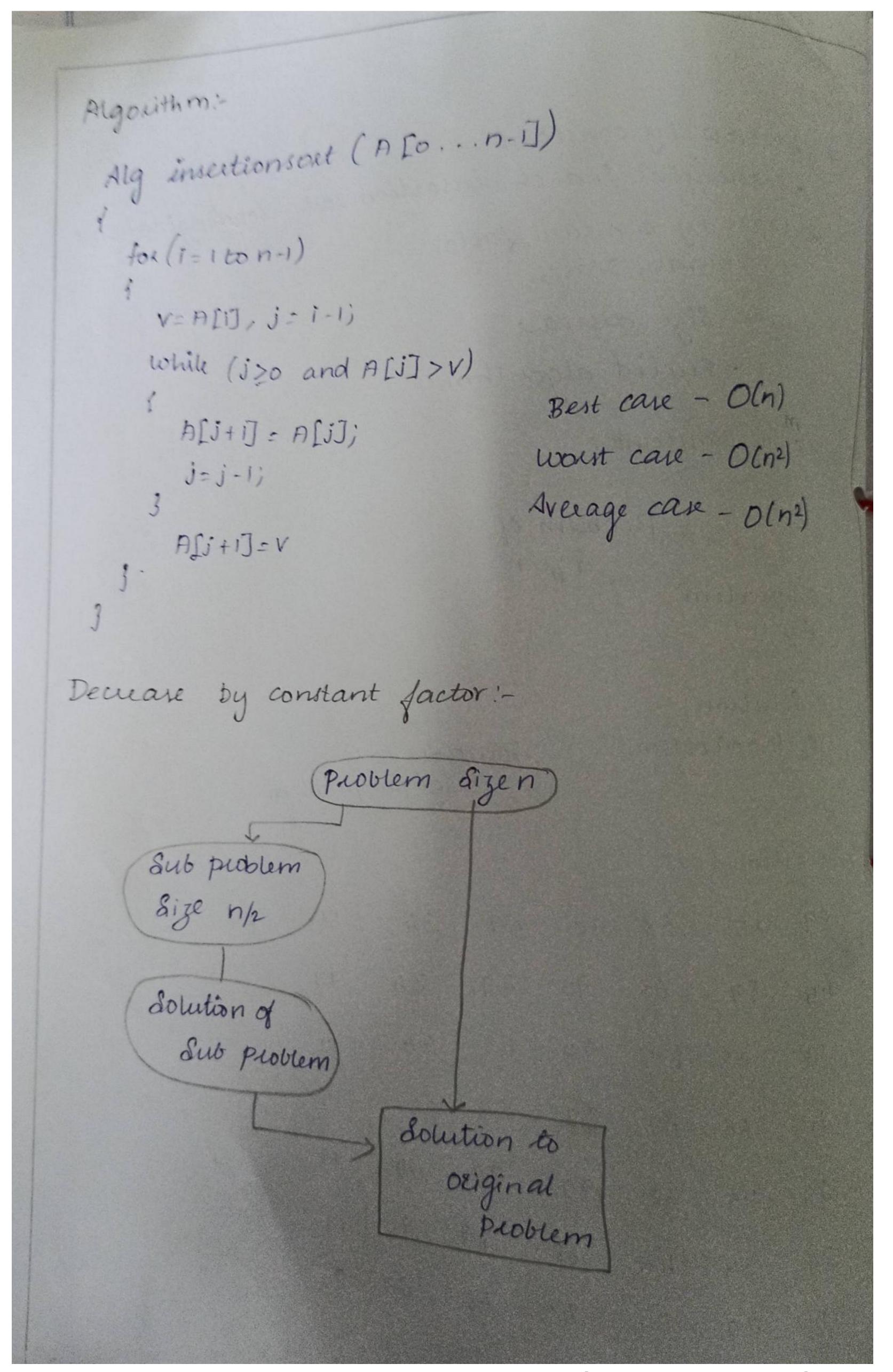


Kongu engineering College School of Communication and Computer Sciences Department of Computer Scinece and Engineering FOLLOWUP ACTIONS FOR THE FAILED STUDENTS Module Test - II Max Marks Subject Code 28.02.17 Date of Exam Design and Analysis of Algorithms Name of the Subject HRIVEBSEC Class Remedial measures Remedial me (Assignment, special SI. session, etc...) Student Name Register No SI. No Register Student Name No No KAYALVIZHI C 16CSL238 MOBIN P BENNY 16CSL239 PAVITHRA A 16CSL240 GAVATHRI A 16CSR060 GOKULAPRIYA M 16CSR063 HARRISH S J 16CSR068 Assignment HINDHUJA K M 16CSR074 JAIVIGNESH D 16CSR077 JEEVANANTH S 16CSR081 KARTHIK M 10 16CSR089 KARTHIKEYAN R 11 16CSR091 12 16CSR096 KAVINKUMAR M 13 16CSR100 KAVYA S Name of the Subject I/C

```
Transform and conques
  -) instance Simplification simplify and solving
                                       the problem
  3 representation change
 ) problem reduction
general plan
    convert the Problem into another type and sove
          ex: - heap dont
mode
      Repeated nois more times called as mode
Algorithm :
    Alg mode (A[...])
      Count = 0 / num = P[O], count 1=1
      for (i= o ton-1)
        if (A[i] = = A[i+i])
             count 1++;
        else if (count 17 count)
           count = count 1
           Num = A(1)
           Court 1= 1',
            count 1=13
          display (count, Num);
```

```
Alg uniqueness (ACJ, n)
 for (i= 0 to n-2)
   if (a [i] = = a [i+])
     return false;
    return time;
```

Types: * decrease by constant - Sequential Search, insertion sout, topological sout * decrease by constant factor -binary search * Vaciable size decrease - Euclid algorithm Decrease by constant: Problem of Sizen Sub problem Size n-1 Solution of Subproblem Solution to original problem Eg: - Insertion Sort H5 68 90 29 89 68 29 90 29 90 34 89 45 68 68 29 90 89 90 89 68 45 29 29 90 68 45 34 29 34 89 68 45 34 29 17



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```
Ex: Binary Search - Ologin)
      0 1 4 3 4 5 6 7 8 9
      1=0
      8 = 9
     m = etr = 9/8 = 4 5 = 5
    Since A[5] x key =) 120 1 800
     1: m+1 r=9
     m = \frac{6+9}{2} = \frac{15}{2} = 7.5 = 8
       19 [m] = = key
Algorithm:
   Alg binarysearch (Alo...n-I), key, e, r)
     m = 1+r;
     y (REY)
       if (A[m] = = key)
           eetwan m;
       else is (key > ACM)
         binary search (a, key, m+1, 1);
       else if ( key & ACM)
           binaugreauch (a, key, 1, m-1);
       return -1;
```

```
In variable Size decrease each and every
Variable Size documente:
iteration is decrease by variable size.
      Eg: Eudid algorithm
 Eg: - gcd (60,24)
     gcd(m,n) = gcd (n, mand n)
     gcd (60124) = gcd (24,12)
                 = gcd (12,0)
 Algorithm:
      int gcd (int m, int n)
      if (n==0)
         return m;
      else
         t = m.l.n;
         g(d(n,t);
```

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