```
Complexity analysis
Name: Deepankar Sharma
Atudent ID: 233512013
                                                                  0 (n2)
                                                (1) Bubble Qost =
                                               @ Job Deauencing
                        Job screduling
                                                                    Om Jogn)
 #undude < otdie . h>
                                                                   (if Merge Sort)
# include <atring, h>
# define MAX 100
typodef atruct Job &
        whar id [5]; unt deadline; int profit;
3 Job;
3 (n tru, [] solat dat) snilbosed till prisnered at land
      int i, f, k, maxprofit;
       unt timeslat [MAX]
      int filled timeslot = 0;
       unt amax=0;
             ij (jobe [i] deadline > dmax) dmax = jobe [i] deadline;
      dor(1=1; 2<=n; 1++) }
      for (unt i = 1; i <= dmax; i++) timeslot [i] = -1;
      printf ("dmax; %d \n", dmax );
     for(2=0+1; 2<=n; 2++) }
           k= min Value (dmax, joba [i] deadline);
          wehile (R>=1) {
                 ig (timeslot [k] = =-1) }
                        timealat [k] = "; filled timealat ++; break;
                 3 k--'s
          If (filled timeslat = = dmarx) break;
      prints (" Required Jolea ");
             printy ("% a", jobs [timeals+(i]]. it);
if (i < dmar)
     for (1=1; 1<= dmax: 1++) }
```

printf (" -->"):

3

```
11 maximum profit
    max profit = 0;
    Har(i=1; i <= dmax; i++) ?
maxprofit += Joba Ctimes Lat [i]]. profit;
    3
    printy (" Max Profit: % d\n", maxprofit);
3
unt main (1)
     int 2,7;
     ; amet, [D1] clay dat
     unt n;
     print ("Enter the # Falsa: "); scanf ("%d", &n);
             oranj ("%d %d %d", Joba [i]. id, & joba [i]. deadline,
    fon(i=1; ic=n; i++) {
                                     (tilpsq. [2] solofs);
     3
   "descending order of profit
   for (i=1; i<=n-1; i+1){
       for (j=1, j <=n-1; j++) {
              ) ( folsa [j+1]. profit > jousa [j]. profit ) }
                   John [3+1] = John [3];
                   goloa [3] = temp;
              3
       3
    3
    Lobsequencing with peadline (Joba, n);
  detum 0;
```