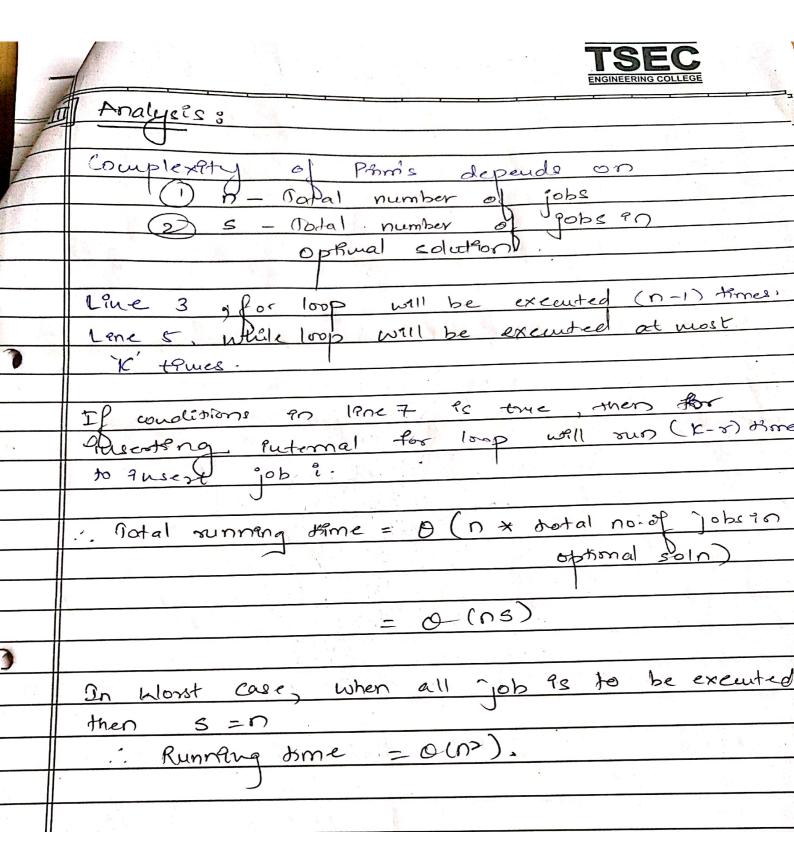
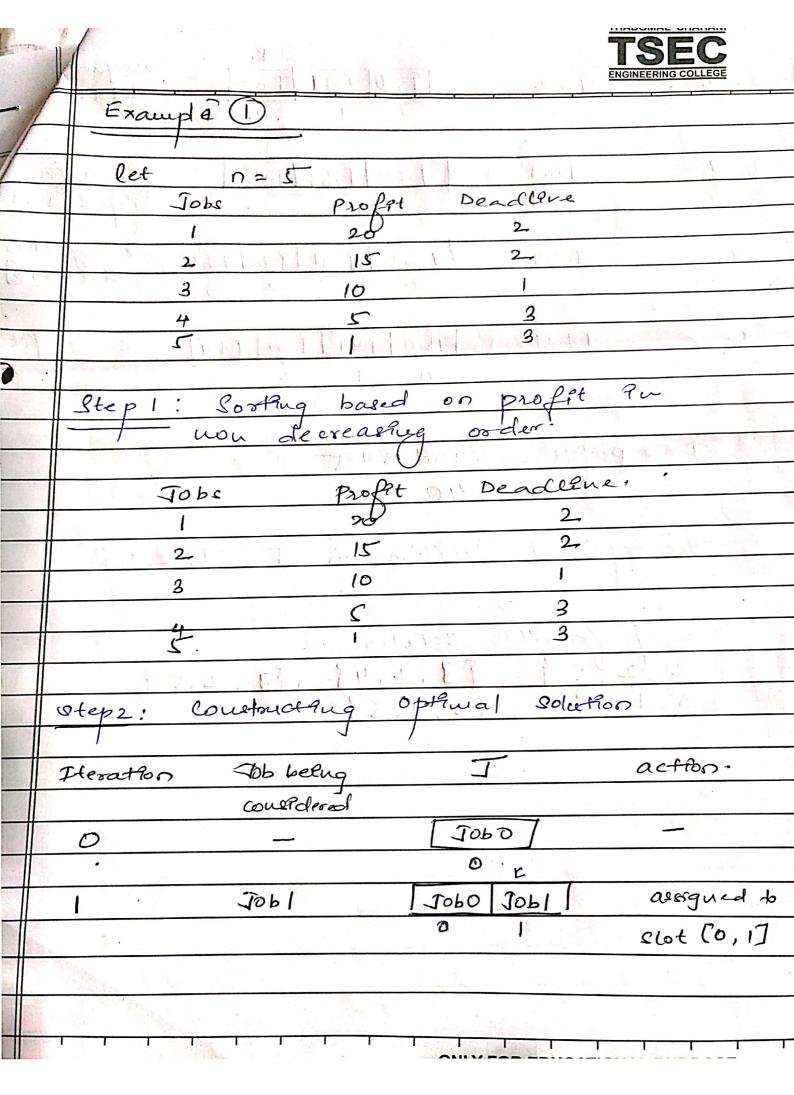
	JOB SEQUENCING WITH ENGINEERING COLLEGE
1	DEADLINES (2)
I	Problem Defautten
	There are 'n' pobs to be processed on a muchine.
	- Each job '?' has a deadline di >0 and
	profit P>0.
3/1	- P: 2s earned of the job as completed by 9ts
_	deadline.
	- The job 9s completed ? 1 1+ Ps processed on
	a machine has used time.
67	- Only Tour machine es available for processing
3-	- Only one gob re processed at a fine on the
	madiene-
Me be	ende that each gob as completely by the deadline.
γ.	such that each gob 9s completely by the deadline.
	- An optimal solution re a fearble solution with
	maximum profét value.
)	a compared to the second to th
TI.	Algorithm (Variation 1)
	Input: (P) DCi) >1, \$ 1 < i < h are dead Bucs
	1-19 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(11) pa) >0,15150 are profit, n>,1
-	The Court of the C
	Output: J -> ophinal solution
	Ja) es the eth job en the ophimal solution
	Ø1 ≤ ? ≤ K.
	ONLY FOR EDUCATIONAL PURPOSE
•	== settictore, on ode

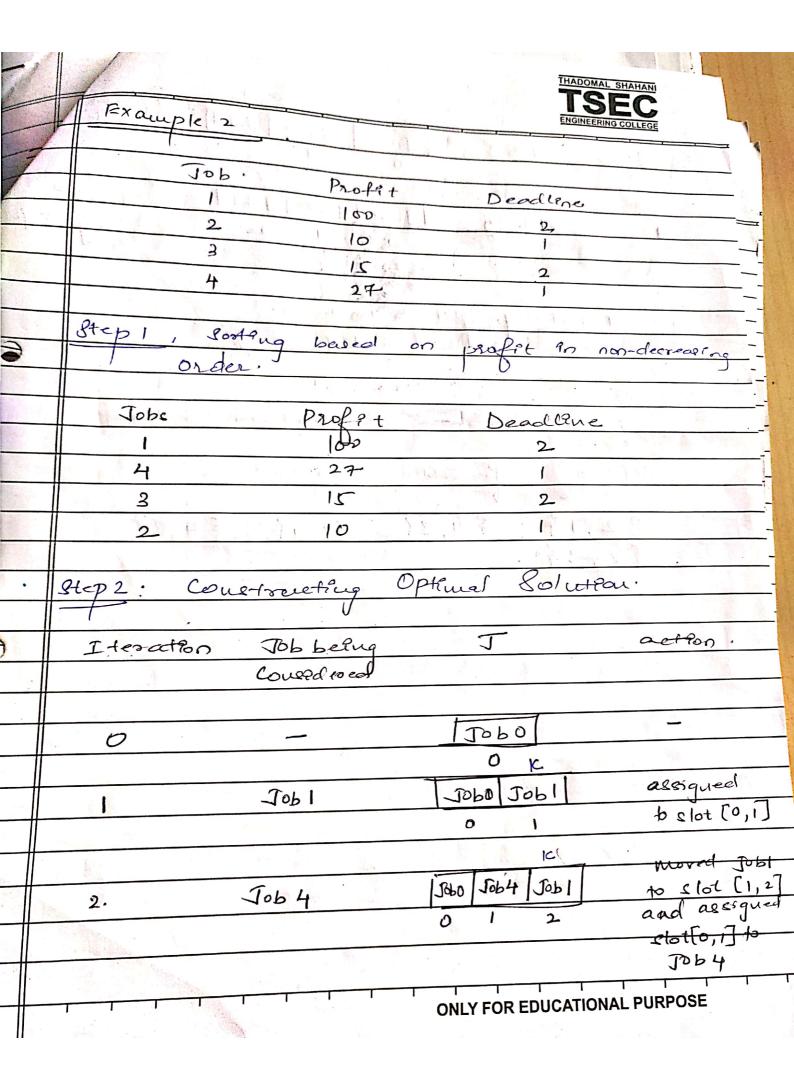
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```
Jobs are ordered such that
                                         P1 > P2>
Constroants:
                      deallive away
 Jobsequenting C(D
                              - Rotal No. of gobs
                                          ICO) 15 fictions
      D(0) = J(0) = 0 ==== ?veRal?ze
                            It Job one es enserted
            j J(1)=1
            ? = 2 to m do # Jobs are an non deceasing
                                   order of Pi
                        # rand & are anderes of existing
                while (D(J(r)) > D(i)) and # job r can be
                                                  processed after ?
  5.
                                        > # dead Que o
                                          reust exact
  6.
                        It Counda whether r-1 can be problem
                    (DCJ(r)) & da) and Da) >r
                 It new poblican come after existing jobr
                    for q = KAP to 8+!
                   J(x+1) = ?; K=K+1
 90.
```





slot [1,2] Job 0 Job Job 2 Job 2 2 Jobo Jobi Job2 Reject Job3 Job3 3· assergued to Jobo Jobi Joba Job4 Job4 7060 | Job1 | Job2 | Job4 | cannot fit Job 5 5. Total profit = 20+15+5 The opposed Solution is J= {1, 2, 4} get of feasible solutions is { 2, 2, 5 }, {3, 2, 4}, {3, 2,5 } { 3, 1, 4}, {3, 1, 5}, etc.



3. Job 3 Jobo Job4 Job 1 refere Joh 2

4. Job 2 Jobo Job4 Job 1 Paper Job 2, Preject Job 2.

Total profit = 100 + 27 = 127

The optimal solution 100 J = 8 4,19

Set of featible solution 98,

8 2,13, \$1,33, \$3,13, \$4,33

\$2,33.

	Algorithm : () and a second se
1	Algorithm: (Variertion 2)
	appute output
	rachten 1.
	*
	Jobset [1n] will be inthatted toz zero.
	It contains gobs included in an optimal solution.
	3
	Slot [1 n] well be quitalize to false.
\parallel	
\parallel	
\parallel	Jobsequencing (d, p, n)
\parallel	
$\perp \!\!\! \perp$	1. for 9=1 to n do.
$\perp \parallel$	
$\perp \parallel$	2. for g= de [i] to p by -1
$\perp \!\!\! \perp$	
	3. 9 (slot []] == false)
	b 2
	4. stot[] = true
\parallel	Jobset[j]=i
	6. break
1	2
\parallel	4
	3
	7. octum Jobset
	emplexity is OCn2)
_	