Consider >
Practical?
Algo

		+	7
Tab	Profit	Dradlive	
	(100)	a	_]
2	15	1	
3	(47)	2	L
4	10	l	
-			_

Job 100 1 2 10b 3 10b 1

Consider jobs in Derending ænder of profit

flag = 0 > Empty

Stept > Consider Job 1

d(1061) = 2

check slot(2) = Empty

S(2). jobno = jobl S2 flag = I

profit = 0+100 = 100

consider job 3

d(job3)= 2

cheek slot 2 => Not Empty.

chek dot 1 > Empty.

S(1). jobno = 1063

S(1). Hag = 1

Profet = 100 r 27 = 127

slotno 1 2
jubno jrb3 jobi
frag

- (3) (overder job 2 d(job2) = 1 chek stot 1 => Not Emptyjob2 cannot be scheduled
- (a) consider 1064 d(jobh) = 1 the dot 1 => Not Emply 1064 cannot be scheduled

Infit = 127 job = d 7063, job 13

(5) (7, ---) = (3, 5, 20, 18, 1.6, 30) (3, 5, 20, 18, 1.6, 30)

1 9		<u> </u>
1	3	1 3
2 √3	3 5 20 18	4
5	1	3
7	30	1 2

last deadhine = 4 No of sloty = 4

slatino	١	2	3	4
pbn0	1066	1667) John	1063
Glag 1	ø¹	61	φ(1 6

(Overder job no 7)
$$d(j\circ b7) = 2$$

$$che slot 2 \Rightarrow Emply check slot 4 \Rightarrow Employ
$$s(2).(j\circ b \circ no) = 4j\circ b3$$

$$s(2).(j\circ b \circ no) = 4j\circ b3$$

$$s(2).frag = 1$$

$$s(4).frag = 1$$$$

Consider Job Nog 1 (1064) = 3 drede slot 3 > Emply s(3).jobno=job4 (SL3)-flag =/

(5) NOW all the slote ala occupied. so no other job can be scheduled.

$$proful = 30 + 18 + 6$$

$$= 50 + 24 = 74$$

$$= 50 + 24 = 74$$

$$= 1066 - 1063 - 1064 \rightarrow 1067$$

$$= 1066 - 1063 - 1064 \rightarrow 1067$$



```
Algo for Job Sequencing with Deadline
Fundion Get Slot (s, d): Inliger
d // stot bhejega jaha job Rakh sakte hai
 S(1:k) Here the Schedule contenues jobno & flag
      dl=deadline
     1 is Emply then reborn -1.
      5 relian -1;
Aldo for function Job Sequencing (X, n, S, K)
9 where
   x(1:n) > Input away containing x.j (10bnd), x.p(prit)
            and x.d (deadline)
     n = no of stoll in schedule
   S(1:12) => Schedule containing systems and sifting -
    1. Start
   d. profit = 0
   3. SoA all the Jobs in descending order of profit.
   4. for (=1 to n) > sorted job (in order of projet) ( job higher
```

5. avail = Get SIOL(s, x(i).d)

6 if (avail = = -1) then

7. print "job" x(i).j "cannot be scheduled"

8 else

9 s(avail). jobno = x(i).j

9 s(avail). flag = 1

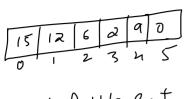
11 profit = profit + x(i).p

12 print S (schedule)

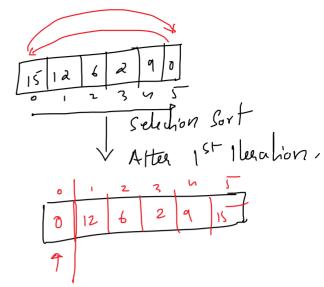
13. Print Profit.

14 Return

Solidion Sort ->



largest Element at bottom



Smallest Clement is at post first or

Worlling >

$$\frac{1}{2}$$
 som $0 \longrightarrow 6$ $(n-1)$

Smallest alment i's 4 at posn=6

Swap atoJ & a [6]

Smallest Elmen = 6

at pos = Swap ali] & alz]

O	1					
14	6	12	13	7	5-6	
<u></u>		2	3	4	5-6	
from 2 -> 6 Smallest Element = 7						

and posh = 4 swap a [2] 4 a [4]

from 3 ->6

Swap a [3] fa [6]

swap alula alul

Smallest Clament = 13

at pos = 6

so swap ass] and a76]

10

Analysis >

Scotod

1-1 1-2 13 1st

N-1 1-2 1-3 +m

1-3 +m

1-1 1-3 +m

- 1 +me

dolar No of time Execution: $(n-1)+(n-2)+(n-3)+\cdots$ $= (n-1)(n+1+1) = n(n-1) = 0(n^2)$ $= (n-1)(n+1) = n(n-1) = 0(n^2)$ = (n-1)(n+1) = n(n-1) = (n-1)(n+1) = n(n-1) = (n-1)(n+1) = n(n-1) = n(n-1) = (n-1)(n+1) =

Job Sequencing with deadline

sepolit struct to

quint id;

quint deadline,

Z for profit