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113) Job sequence with deadlines
CODE:
def job sequence with deadlines(jobs):
jobs.sort(key=lambda x: x[2], reverse=True)
  \max deadline = \max(jobs, key=lambda x:
           slot = [-1] * (max deadline + 1)
x[1])[1]
result = [None] * max deadline
  total profit = 0
     for job in jobs:
profit = job[2]
deadline = job[1]
          for j in range(deadline, 0, -
           if slot[i] == -1:
1):
slot[i] = job[0]
                          total profit
+= profit
                    break
  job sequence = [job id for job id in slot if job id != -1]
  return total profit, job sequence
if name ==
"__main__": jobs = [
(1, 4, 70),
     (2, 1, 80),
     (3, 1, 30),
     (4, 1, 100),
     (5, 3, 60)
  1
```

job sequence with deadlines(jobs) print(f"Maximum profit:

{max profit}") print(f"Job sequence: {job sequence}")

max profit, job sequence =

OUTPUT:

```
C:\Windows\system32\cmd.e: \times + \times

Maximum profit: 230

Job sequence: [4, 5, 1]

Press any key to continue . . .
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TIME COMPLEXITY : O(n)