Problem 3: You are given a set of N jobs where each job comes with a **deadline** and **profit**. The profit can only be earned upon completing the job within its deadline. Find the **number of jobs** done and the **maximum profit** that can be obtained. Each job takes a **single unit** of time and only **one job** can be performed at a time.

```
def findMaxProfit(N, jobs):
  jobs.sort(key=lambda x: x[2], reverse=True)
  maxDeadline = max(jobs, key=lambda x: x[1])[1]
  slot = [-1] * maxDeadline
  count = 0
  maxProfit = 0
  for job in jobs:
     for i in range(job[1] - 1, -1, -1):
       if slot[i] == -1:
         slot[i] = job[0]
         count += 1
         maxProfit += job[2]
         break
  return count, maxProfit
jobs = [(1, 4, 20), (2, 1, 10), (3, 1, 40), (4, 1, 30)]
N = 4
count, maxProfit = findMaxProfit(N, jobs)
print(count, maxProfit)
```

