EXERCISE-90 Job Sequencing with Deadlines

PROGRAM

```
def job_sequencing(Jobs):
    Jobs.sort(key=lambda x: x[2], reverse=True)
    result = [False] * max([job[1] for job in Jobs])
    for job in Jobs:
        for i in range(job[1] - 1, -1, -1):
            if result[i] is False:
                result[i] = job[0]
                break
    return result
Jobs = [('J1', 2, 2), ('J2', 1, 1), ('J3', 3, 1), ('J4', 2, 3)]
print(job_sequencing(Jobs))
```

OUTPUT

```
=== RESTART: C:/Users
['J1', 'J4', 'J3']
```

TIME COMPLEXITY

$O(n \cdot \text{max\_deadline})$