Week 4

E04-01. Implement algorithms of interval scheduling and give some examples to test it.

Input: n jobs, start time and finish time of each job

Output: maximum subset of mutually compatible jobs.

Example:

Input:

5
0 2
1 4
3 5
4 7
5 6

Output:

3

E04-02. Implement algorithms of interval partitioning and give some examples to test it.

Input: n lectures, start time and finish time of each lecture

Output: the minimum number of classrooms to schedule all lectures.

Example:

Input:

5
0 2
1 4
3 5
4 7
5 6

Output:

2

E04-03. Implement the algorithms of scheduling to minimize lateness and give some examples to test it.

Input: n jobs, processing time and deadline time of each job

Output: job scheduling to minimize maximum lateness.

Example:

Input:

5
1 9
3 6
4 9
2 8
3 14

Output:

1