Module 6: 6.2 Quiz (Greedy algorithm, Interval Scheduling)

Due Oct 23, 2022 at 11:59pm   **Points** 3   **Questions** 3
Time Limit None

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	1 minute	3 out of 3

Score for this quiz: **3** out of 3
Submitted Oct 20, 2022 at 3:36pm
This attempt took 1 minute.

Question 1	**1 / 1 pts**

The optimal greedy algorithm for Interval Scheduling problem uses:

○ the job with the earliest start time.

○ the job with the smallest number of conflicts.

○ the job with the shortest length.

Correct!   ◉ the job with the earliest finish time.

Correct.

Question 2	**1 / 1 pts**

We are given two jobs. The first one starts at moment s_1 and finishes at moment f_1, and the second one starts at moment s_2 and finishes at moment f_2. These jobs are compatible if:

○ $s1 \leq f2 \; or \; f1 \leq s2$

Correct!

◉ $f2 \leq s1 \; or \; f1 \leq s2$

Correct.

○ $s2 \leq f1 \; or \; s2 \leq f1$

○ $s1 \leq s2 \; or \; f1 \leq f2$

Question 3   **1 / 1 pts**

What is the time complexity of the optimal greedy algorithm for Interval Scheduling problems with n intervals?

○ O(1)

○ O(n^2)

Correct!

◉ O(n log n)

Correct.

○ O(n)

Quiz Score: **3** out of 3