

IE 375 Comments on Mini-Homework #5-6

General Comments

To receive full points, I strongly recommend that you write the formulae before making the calculations since it is very likely that you make errors while dealing with the numbers. Unless you write the formulae at the beginning, incorrect numbers will indicate that you use an incorrect formula, thereby reducing your points from the homework.

Homework 2 (out of 2) – Statistics: Average: 3.02 and Standard Deviation: 0.93

Grade (G)	$3.9 \leq G < 4$	$3.0 \leq G < 3.9$	$2 \leq G < 3.0$	$G < 2$	Not Submitted
# of students	13	17	16	3	2

Question 1

Comments regarding your performance:

1. Almost all of you did a great job in this question. Thanks!

Question 2

Comments regarding your performance:

1. In *Part B*, few chose a number of scheduling rules (e.g. EDD, SPT and critical ratio scheduling) and stated that EDD is the best rule among the selected scheduling rules, thereby concluding that EDD can provide minimum max. tardiness. Please note that comparing a number of scheduling rules is not enough for such conclusion; we need to compare all possible scheduling rules. Alternatively, we can use the theorems provided in our textbook.
2. In *Part B*, some used EDD rule whereas some used Lawler's algorithm. Both are accepted.
3. In *Part C*, few stated that SPT rule minimizes the makespan.
4. In *Part C*, few stated that EDD rule minimizes the maximum tardiness, therefore it minimizes the makespan. It is true that EDD rule minimizes the maximum tardiness. However, it is not true that EDD rule minimizes the makespan.

Question 3

Comments regarding your performance:

1. In *Part A*, some did not show the steps of the solution, instead, they provided only the final schedule. Please note that you need to show the steps to receive points.
5. In *Part A*, few chose a number of scheduling rules (e.g. EDD, Lawler's algorithm and critical ratio scheduling) and stated that EDD is the best rule among the selected scheduling rules, thereby concluding that EDD can provide minimum max. tardiness. Please note that comparing a number of scheduling rules is not enough for such conclusion; we need to compare all possible scheduling rules. Alternatively, we can use the theorems provided in our textbook.
2. In *Part A*, some selected EDD rule. Please note that EDD rule may not yield the minimum max. tardiness when there are precedence constraints.