

091M4041H-2019: Final Examination

Notice:

1. Please write your name along with student ID.
2. There are 7 sections in the sheet, 100 marks total.
3. When you are asked to give an algorithm, you should describe your algorithm in natural language or pseudo-codes, prove the correctness, and analyze time complexity.
4. You can write answers in either Chinese or English.

- 1 Divide and Conquer (15 marks)**
- 2 Dynamic Programming (15 marks)**
- 3 Greedy (15 marks)**
- 4 Linear Programming Formulation (15 marks)**
- 5 Bonus One (20 marks)**
- 6 Bonus Two (20 marks)**