博士班 0.5. 受松亏(98 紫羊车)

- 1. (10%) Prove that the SJF scheduling algorithm minimizes wait time. (Hint: prove through induction).
- (5%) Propose an algorithm to solve the two-process critical section problem. (15%)
 Prove the correctness of your algorithm.
- 3. (5%) Describe the concept of FAT. (15%) Why FAT is better than the linked allocation for files?
- (10%) What is fragmentation? (10%) Differentiate internal fragmentation from external fragmentation.
- 5. (10%) What is trap door? (10%) Use examples to describe the ones that may create trap doors?
- 6. (10%) Why registers, stacks, pids, and program counters cannot be shared among peer threads in a process?