問答題:

1. (15%) Write a pseudo code for poping data from a stack.

2. (20%) Given a link list structure as
   ```
   struct Node
   {
       int data;
       struct Node* next;
   };
   ```
   A list head: struct Node *Head, A particular middle list element struct Node *Mid.
   Write a program to delete Mid from the list.

3. (20%) Illustrate how data changes while using mergesort to sort:{50 43 51 83 60 33 21} and write down merge sort’s time complexity.

4. (10%) “Block chain” is one of the hottest topic in the information technology.
   Which calculation algorithm is the core of block chain? Briefly describe this algorithm.

5. (20%) Please use recursion to flip(left-right) a binary tree.

6. (15%) What’s the two common data structure to store Graph? Compare the pros and cons in using memory between this two data structure.