Data Structure Assignment 4

Programming Homework1

(Textbook p.186 Exercises6(e))

這次的題目是利用 Linked-list 這種資料結構來解決 Sparse Matrix 相乘的問題。

題目 Input 為一個 m*n 矩陣跟一個 n*p 矩陣, Output 應為一個 m*p 矩陣。

(The homework is sparse matrix multiplication and the data structure you should use is “Linked list”. The Input is one m*n matrix and one n*p matrix. The output should be one m*p matrix.)。

Example input:

2

3

1 0 0

2 3 0

3

2

9 8

0 7

0 0

Example output :

9 8

18 37

Data Structure Assignment 4

Programming Homework2

(Textbook p.186 Exercises6(f))

同程式第一題，利用 Linked-list 解決 Sparse Matrix 轉置的問題

(Use linke-list datastructure to implement the transpose function of sparse matrix)

Example input:

3

3

1 2 3

4 5 6

7 8 9

Example output :

1 4 7

2 5 8

3 6 9

General Information:

- Deadline：2016/12/2 23:55.
- Upload your assignment to Moodle system.
- Upload file format: Student-Id_Name.rar , Ex.P76991094_王小明.rar
- Your file should consist of the following items: Source Code & Readme file (Program description)
- Late homework will not be accepted.
- Any copies will be scored as zero. Do not plagiarize