

Homework set #3
Data Structures
4/22/2016

Input: p3.in
Output: p3.out
Execution file: .exe

(Upload your homework before 11:59pm of 4/22/2016. Please consult with your TA for any questions.

Problem description:

In the given input maze file (p3.in), 0's are available path and 1's are blocked. Your homework is to use all the codes provided in the textbook, including the template for the stack class and the path function to write your C++ codes, in order for the rat to find the route out of the maze. It is important that you fully understand each piece of the codes provided in the text before writing your code. After completing the coding, write down what you learn or any discussions from this exercise, as well.

Sample Output:

Print out the path found, if any, by marking the positions using "*" for the path in the maze. For example, assuming you are given a 4×5 maze whose entrance is (0, 0) and exit is (3,4), then your output file may show the path as follows:

```
s * * 1 0
1 1 * 1 0
0 1 * 1 1
0 1 1 * d

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```

Compress all the files (專案與心得), and name the compressed file as A09*****.rar(zip) using your student ID. Then upload the compressed file to the server.