

國立中央大學 106 學年度碩士班考試入學試題

所別： 企業管理學系 碩士班 企業電子化與大數據庚組(一般生)

共 / 頁 第 / 頁

科目： 資料結構

本科考試禁用計算器

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1. (40%) Convert the expression $((L + M) / N - (O - P) ^ (Q + R))$ to equivalent (a) prefix and (b) postfix notation.
2. (60%) A ternary tree is a tree data structure in which each node has at most three child nodes, usually distinguished as "left", "mid" and "right". Write a program to create the mirror image of a ternary tree. The input to your program is the root node of the ternary tree. Please describe your concept, and write the program in C, C++, or Java.

