參考用

1. (40%) Convert the expression ((B + A) * C - (D - E) ^ (F + G)) to equivalent Prefix and Postfix notations.

2. (30%) You have only three-dollar and two-dollar stamps.　If you have an unlimited supply of these two types of stamps, do you think that there is a number N such that for every n> N, you can make n dollars' worth of postage?　Please prove your answer.

3. (30%) If you have one hundred million named objects and you want to store them in a data structure that lets you insert new objects quickly and search for an object by name quickly, what data structure should you use? Discuss your answer(s) with possible situation(s)