Homework1

Submission Deadline: March 7, 2018

- 证明题
 - a Prove $2n + \Theta(n^2) = \Theta(n^2)$
 - b Prove $\Theta(g(n)) \cap o(g(n)) = \emptyset$
 - c Prove $\Theta(g(n)) \cup o(g(n)) \neq O(g(n))$
 - d Prove $\max(f(n), g(n)) = \Theta(f(n) + g(n))$
- ② 解递归式
 - a $T(n) = 2T(\sqrt{n}) + 1$
 - b nT(n) = (n-2)T(n-1) + 2
- ③ CLRS, page 61, 翻译版第35页, 3-3
- ◎ 比较两个矩阵相乘的常规法与Strassen方法,要求交源码, 可执行程序,实验报告。