**Problem 1:**

**Case1:**

文本

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**Case2:**文本

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**Problem2:**

**电脑屏幕截图

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**Time complexity for both algorithms：**

**The largest independent set:**

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**图表, 直方图

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**The largest clique:**

**文本

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**图表

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**Problem3:**

**Case1:**

**文本

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**Case2:文本

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**compare** the results of A and B and discuss how good the results of B are by calculating:

in the first test case, the calculating result is 260 / 275 = 0.945. In the second test case, the result is 80 / 80 = 1. There is a difference in the results in the first test case because the TSP problem is an NP-hard problem so we cannot promise that every different algorithm, which is used in the same graph, could get the same answer.

**the time complexity of each using Big O：**

greedy algorithm:

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A heuristic algorithm:

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