Assignments 15.1

一、阅读 (Reading)

1. 阅读教材.

2. 课外阅读:

1. graph theory(2)-Hamilton Graph

二、问题解答 (Problems)

1. 教材第 10 章习题: 题 28, 29.

2. Prove the following theorem.

Theorem (Bondy and Chvátal, 1976). Consider a simple graph $G = (V, E)$ and let $u, v \in V$ be non-neighbouring vertices such that $\deg(u) + \deg(v) \geq |V|$. Then G is Hamiltonian iff $G \cup \{(u, v)\}$ is Hamiltonian.

三、项目实践 (Programming) (Optional)

1. 探讨并实践哈密尔顿图中哈密尔顿回路的求解方法.