

课后作业 (Assignments)

一、阅读教材 10.7 节, 求解如下问题 (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.

二、课外阅读 (Reading)

1. graph theory(2)-Hamilton Graph
2. 哈密尔顿道路与哈密尔顿回路(by Rogn 博客)

三、编程实践项目 (Programming/Algorithm) (Optional)

1. 探讨并实践哈密尔顿图中哈密尔顿回路的求解方法.