

**数据结构与算法Ⅱ**

**最短距离查询大作业**

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**摘要**

本实验报告主要分为以下四个方面：

**1. Fast Exact Shortest-Path Distance Queries on Large Networks by Pruned Landmark Labeling (PLL) 论文及代码理解**

在本节中小组成员在阅读论文后总结和归纳论文中的思路和要点，并结合提供的代码对PLL算法进行深入的理解和分析。

**2. 2023 Large Assignment - Reading Material (HSDL)论文阅读和代码理解**

在本节中小组成员在阅读论文后总结和归纳论文中的思路和要点，并结合提供的代码对HSDL算法进行深入的理解和分析。

**3. 基于论文的代码实现**

在本节中小组成员在阅读论文后总结和归纳论文中的思路和要点，在已有算法的基础上尝试补全了HSDL算法并成功运行。

**4. 代码优化**

结合以上论文思路和小组成员自身思考，我们提出了X。

**关键词**：最短距离与路径查询 PLL算法 HBPLL算法 算法实现及优化

**分工**

**Abstract**

This experimental report is mainly divided into the following four aspects:

**1. Fast Exact Short Path Distance Queries on Large Networks by Pruned Landmark Labeling (PLL) paper and code understanding**

In this section, group members summarize and summarize the ideas and key points of the paper after reading it, and combine the provided code to gain a deep understanding and analysis of the PLL algorithm.

**2. 2023 Large Assignment - Reading Material (HSDL) Paper Reading and Code Understanding**

In this section, group members summarize and summarize the ideas and key points of the paper after reading it, and combine the provided code to gain a deep understanding and analysis of the HSDL algorithm.

**3. Implementation of code based on the paper**

In this section, group members summarized and summarized the ideas and key points in the paper after reading it, and attempted to complete the HSDL algorithm on the basis of existing algorithms and successfully ran it.

**4. Code optimization**

Based on the ideas of the above paper and the thoughts of the group members themselves, we propose X.

**Key** **Words**：Shortest path and distance queries PLL algorithm HBPLL algorithm Algorithm implementation and optimization

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