# 实验报告模板

华南理工大学

《课程名称》课程实验报告

实验题目： 1.To solve the Sorting Problem by Sorting Algorithms

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| **实验概述** |
| 【Purposes and requirements】  Purpose: Compare 4 sorting methods.  Requirements: windows 10. G++ or any other c++ compiler.  【lab environment】  OS：Windows 10 |
| **实验内容** |
| 【experiment procedure】  We coded 4 different sorting methods : bubble sort, insertion sort, merge sort, selection sort. We used the same data sample to test the sorting algorithms. We plotted a graph to compare the speed and memory efficient of different algorithms. We came to conclusion that merge sort is the best amongst these.  Graph Comparison  As it can be seen from the graph, The runtime doesn’t increase with the list length for merge sort as much as the others. |
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| **小结** |
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| **指导教师评语及成绩** |
| 评语：  成绩：           指导教师签名：                                                 批阅日期： |