# 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：2.To solve the Knapsack Problem with Greedy, Tree Search and Dynamic Programing Algorithms

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| **实验概述** |
| 【Purposes and requirements】  Purpose: Compare greedy, tree search and dynamic programming for the knapsack problem.  Requirements: windows 10. G++ or any other c++ compiler.  【lab environment】  OS：Windows 10 |
| **实验内容** |
| 【experiment procedure】  We coded the three algorithms - greedy, tree search and dynamic programming. We solved a knapsack sample problem with these algorithms. For same problem the greedy method yields 240 where as dynamic programming and tree search gives 220. Therefore, It is preferred to use greedy algorithm to solve the knapsack problem. Only greedy can use fractional knapsack problem.  Using greedy :  e650864b66450e48eca9baec1d1c2c0  Using search tree and dynamic progamming :  e650864b66450e48eca9baec1d1c2c0 |
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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： |