Graph & Search

现在是课程答疑时间

扫描二维码关注微信/微博
获取最新面试题及权威解答

微信：ninechapter
微博：http://www.weibo.com/ninechapter
官网：www.jiuzhang.com

- Graph
    - Clone Graph
    - Topological Sorting
- Search
    - DFS (Depth First Search)
    - BFS (Breadth First Search)

Clone Graph

http://www.lintcode.com/problem/clone-graph/

http://www.jiuzhang.com/solutions/clone-graph/

Topological Sorting

http://www.lintcode.com/problem/topological-sorting/

http://www.jiuzhang.com/solutions/topological-sorting/

http://www.geeksforgeeks.org/topological-sorting/

When?

1. Find connected graph

2. Shortest Path in Simple Graph

Graph BFS vs Tree BFS?

5 minutes break

Search = {DFS, BFS}

Permutations

http://www.lintcode.com/problem/permutations/

http://www.jiuzhang.com/solutions/permutations/

Permutations II

http://www.lintcode.com/problem/permutations-ii/

http://www.jiuzhang.com/solutions/permutations-ii/

N Queens

http://www.lintcode.com/problem/n-queens/

http://www.jiuzhang.com/solutions/n-queens/

Palindrome Partitioning

http://www.lintcode.com/problem/palindrome-partitioning/

http://www.jiuzhang.com/solutions/palindrome-partitioning/

Combination Sum

http://www.lintcode.com/problem/combination-sum/

http://www.jiuzhang.com/solutions/combination-sum/

Combination Sum II

http://www.lintcode.com/problem/combination-sum-ii/

http://www.jiuzhang.com/solutions/combination-sum-ii/

Word Ladder

http://www.lintcode.com/problem/word-ladder/

http://www.jiuzhang.com/solutions/word-ladder/

Word Ladder II

http://www.lintcode.com/problem/word-ladder-ii/

http://www.jiuzhang.com/solutions/word-ladder-ii/

DFS (O(2^n), O(n!)) (思想:构建搜索树+判断可行性)

1. Find all possible solutions

2. Permutations / Subsets

BFS (O(m), O(n))

1. Graph traversal (每个点只遍历一次)

2. Find shortest path in a simple graph

老师领进门，修行靠自身

- 刷多少题够？

- 只是刷一遍么？

多给予你周围的人帮助

- 帮助别人也是在提高自己

还想继续上课？

觉得九章算法班的内容还比较吃力——半价重听

觉得九章算法班的内容可以消化——九章算法强化班

觉得算法知识已经学够了——系统设计班

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你也可以同时获得10$的优惠券

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