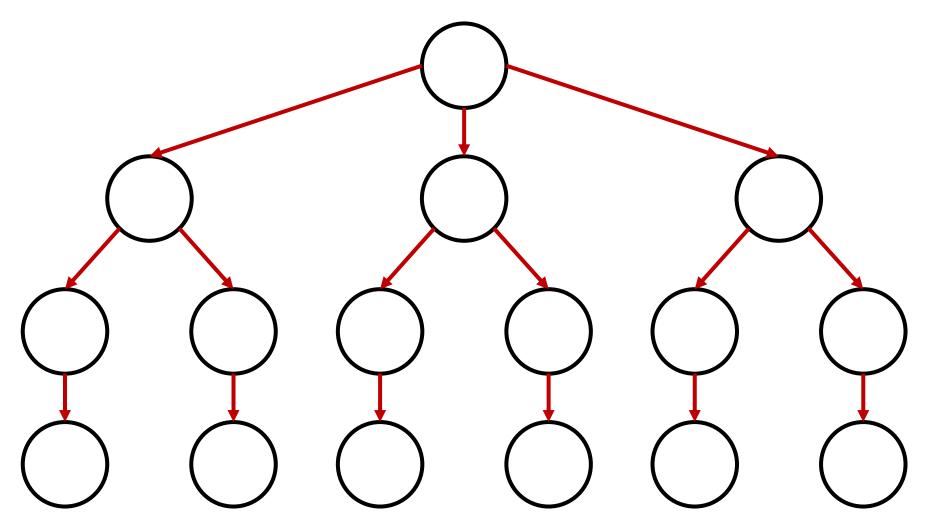
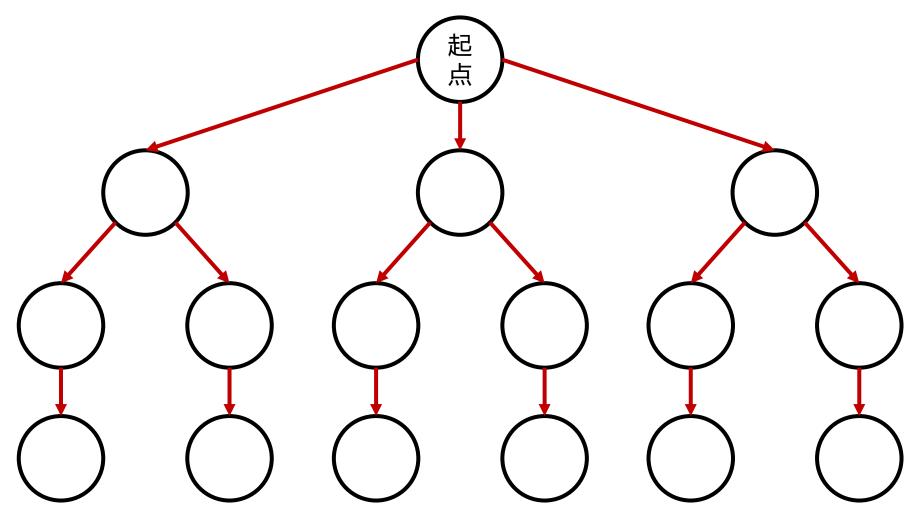
# 第四讲: 马的遍历-P1443

胡船长 初航我带你,远航靠自己

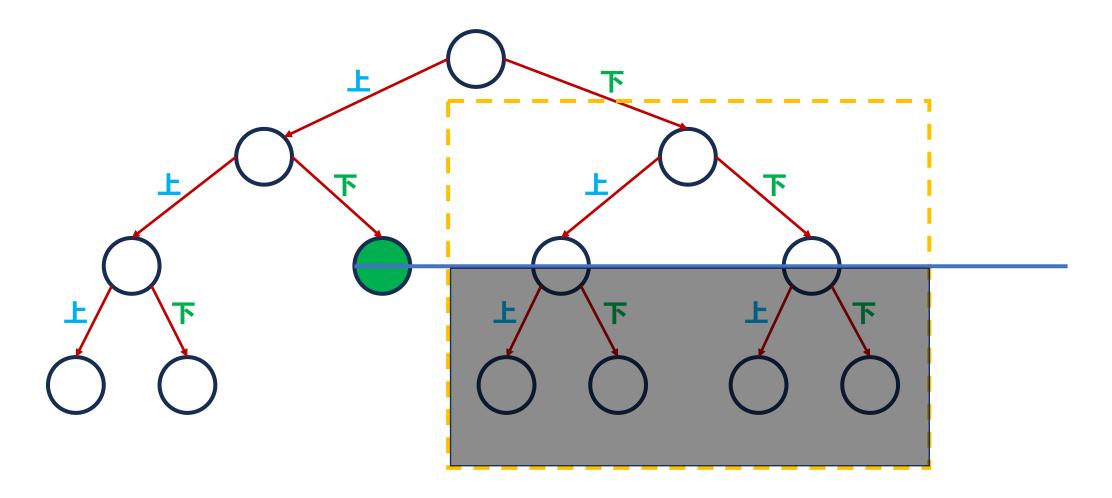
# 一、问题搜索树



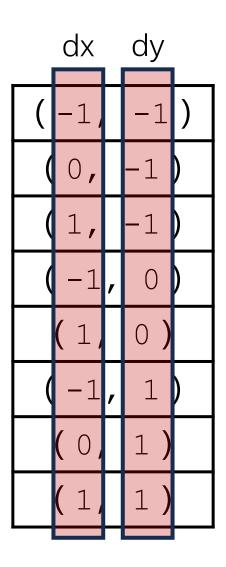
# 一、问题搜索树



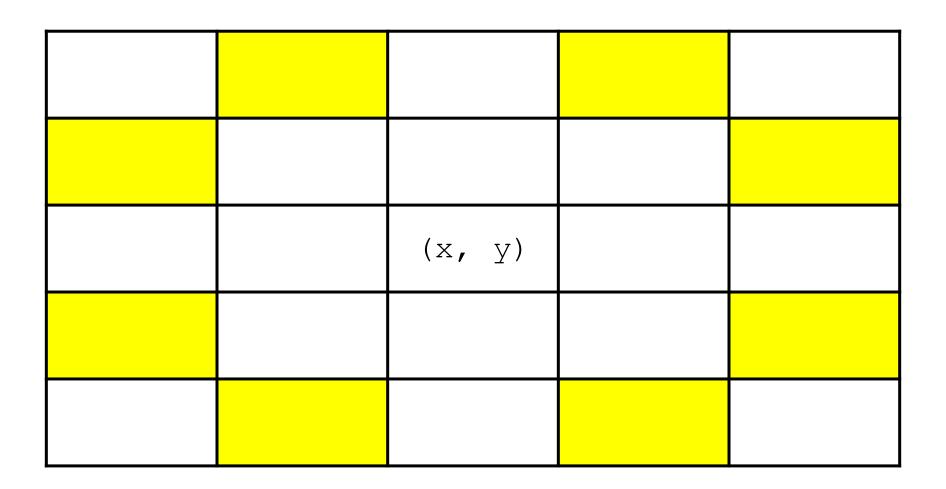
# 二、优化1: 历史答案剪枝



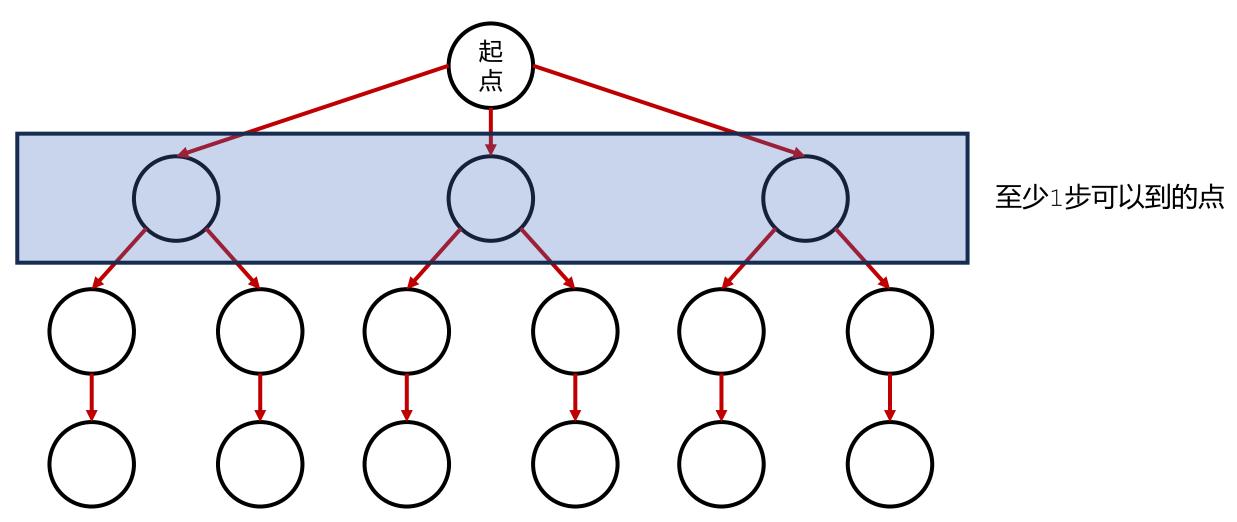
(-1, -1)	<b>(</b> -1, 0)	(-1, 1)
(0, -1)	(x, y)	(0, 1)
(1, -1)	(1, 0)	(1, 1)

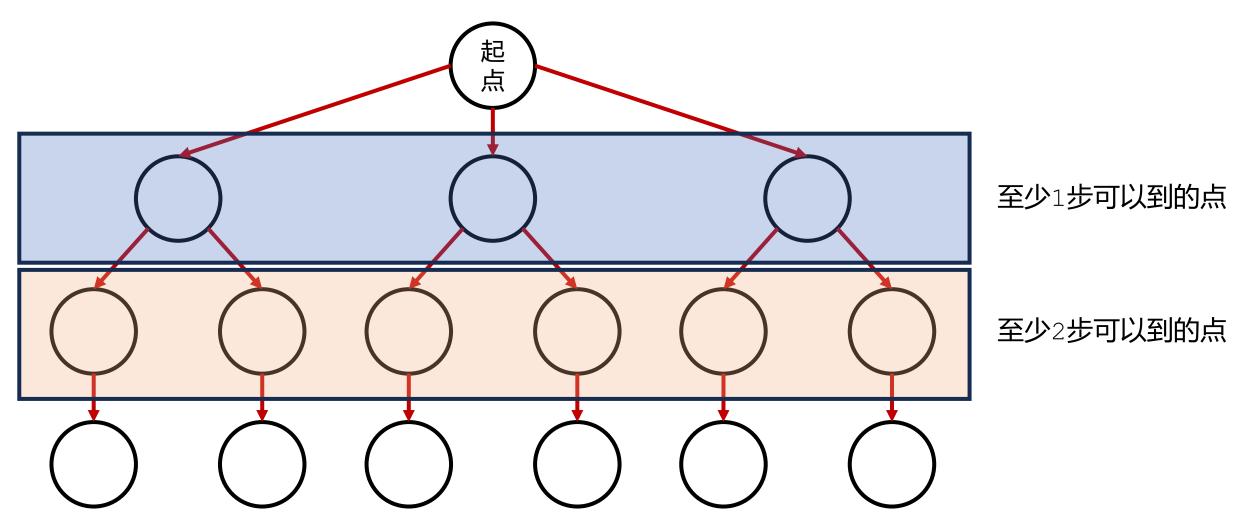


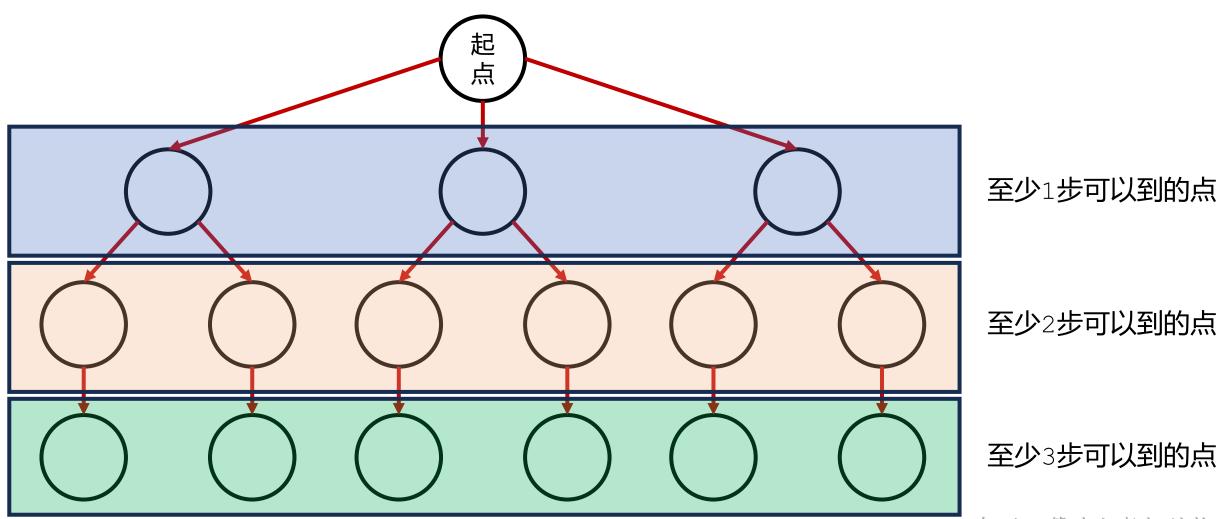
	(x, y)	



	(-2, -1)		(-2 <b>,</b> 1)	
(-1 <b>,</b> -2)				(-1, 2)
		(x, y)		
(1, -2)				(1, 2)
	(2, -1)		(2, 1)	









出现过的状态,不重复添加



出现过的状态,不重复添加

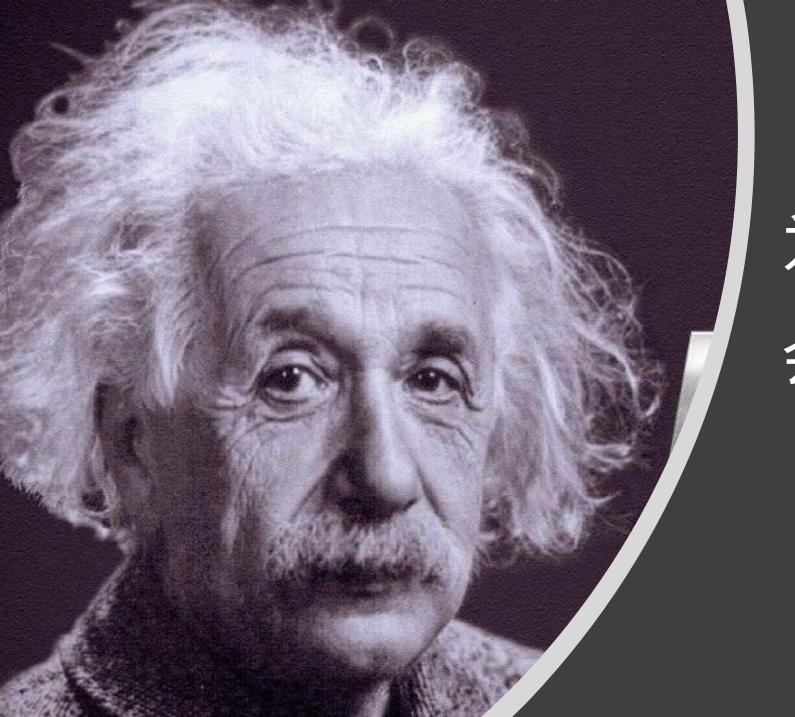


```
1. vim
          #1 X
   vim
                    bash
                           #2 X
                                    bash
                                            23
39 }
40
41 Node *insert_maintain(Node *root) {
42
       if (!hasRedChild(root)) return root;
43
       if (root->lchild->color == RED && root->rchild->color == REL____
44
           if (!hasRedChild(root->lchild) && !hasRedChild(root->rchild)) return root;
45
           root->color = RED:
46
           root->lchild->color = root->rchild->color = BLACK;
47
           return root;
48
49
       if (root->lchild->color == RED) {
50
           if (!hasRedChild(root->lchild)) return root;
51
52
53
       } else {
54
           if (!hasRedChild(root=>rchild)) return root;
55
56
57
```

#### 马的遍历-P1443:代码演示

62 if (root == NIL) return getNewNode(key);

<-6班资料/X.现场撸代码/15.RBT.cpp [FORMAT=unix] [TYPE=CPP] [POS=54,30][62%] 21/09/19 - 20:21



# 为什么会出一样的题目?