

第9章 查找

2017141493004 常家奇

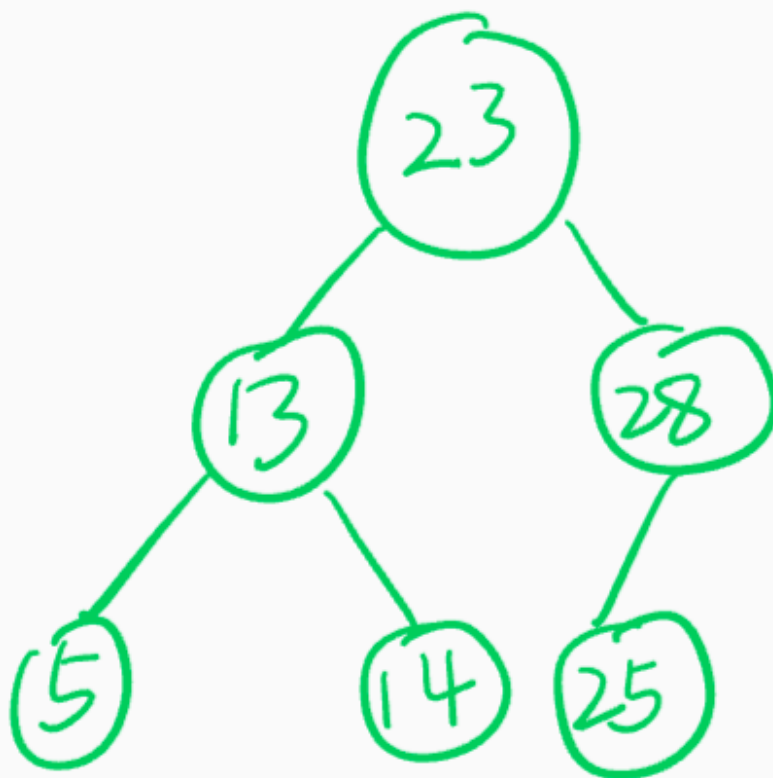
一

- A B B

二

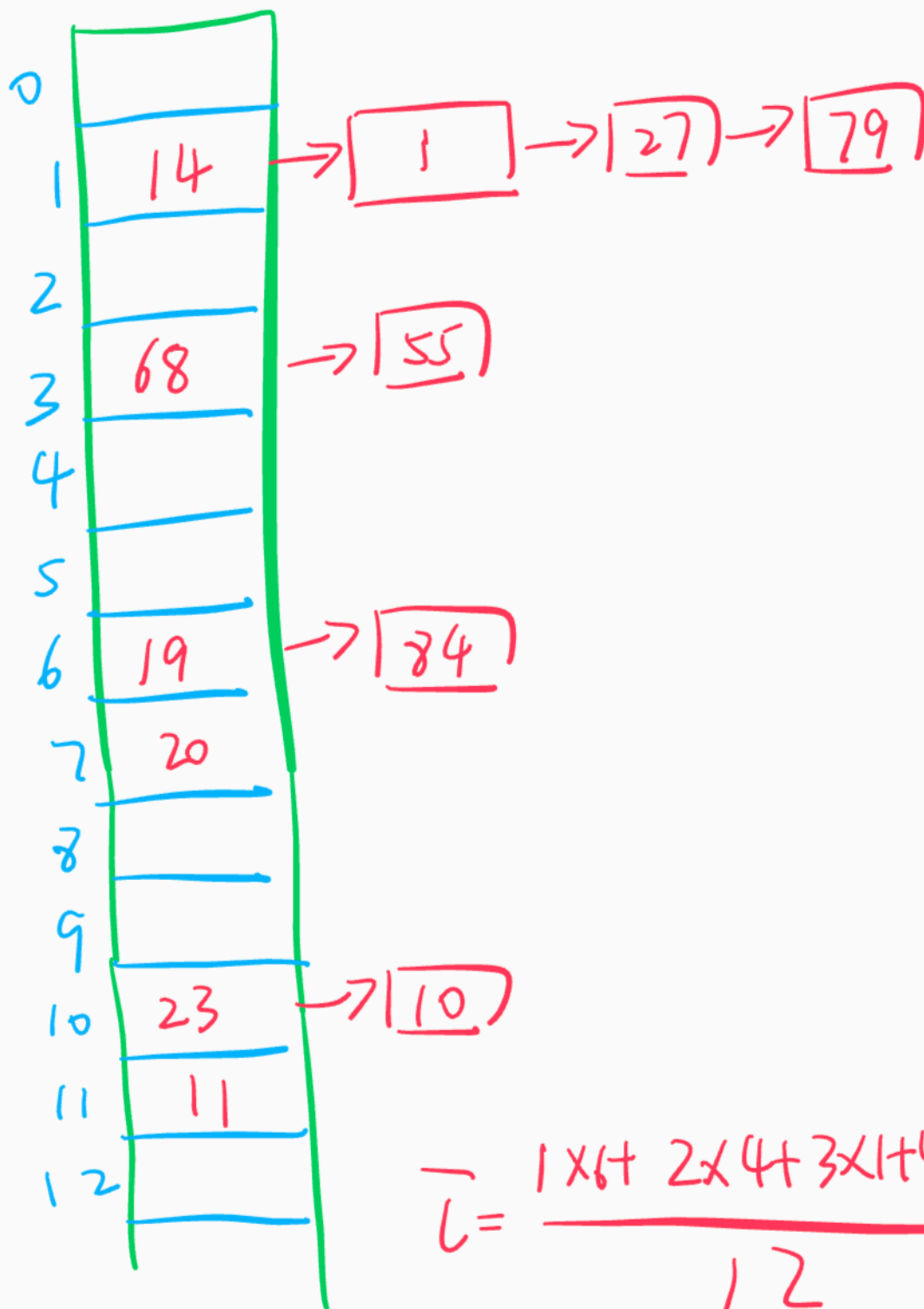
1.

1.



2.

2.



3.

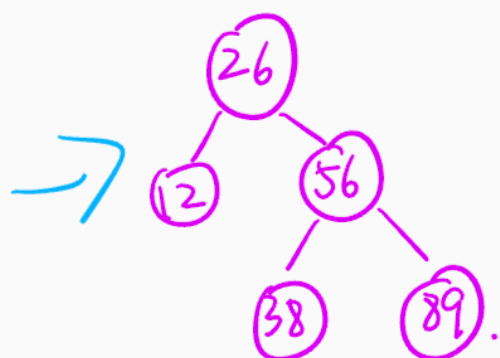
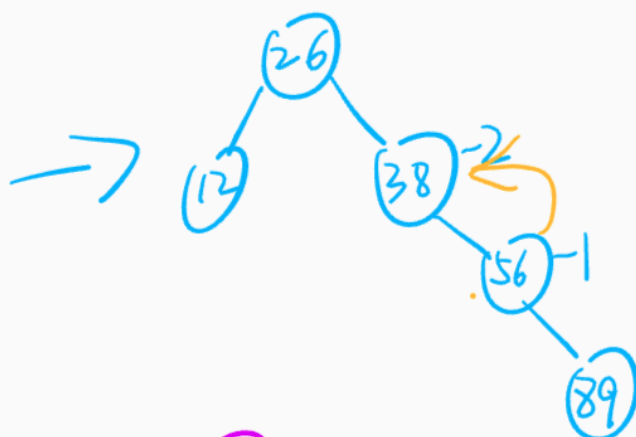
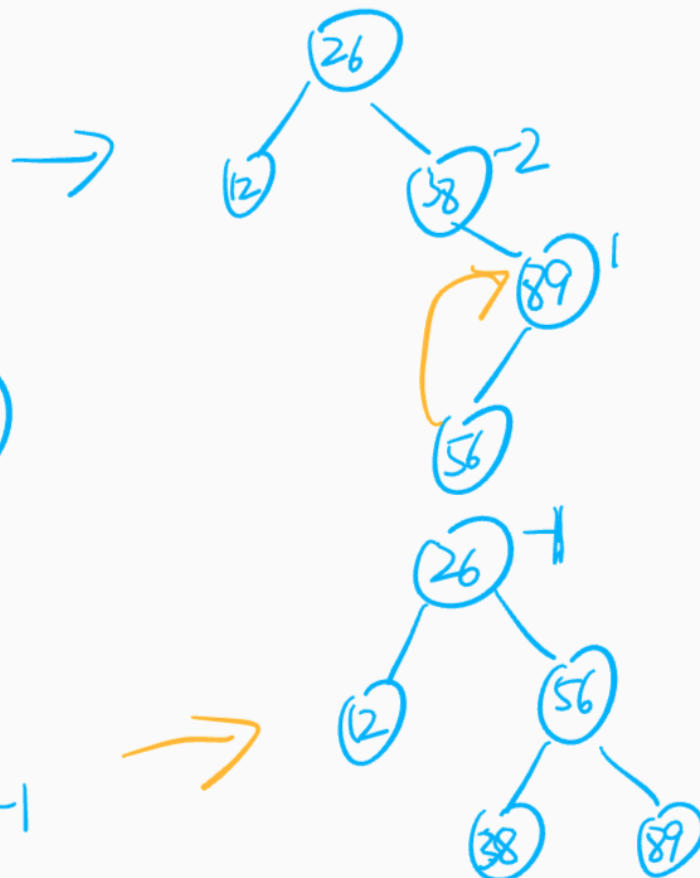
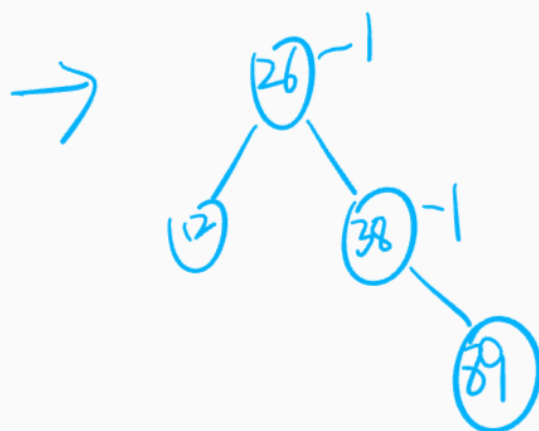
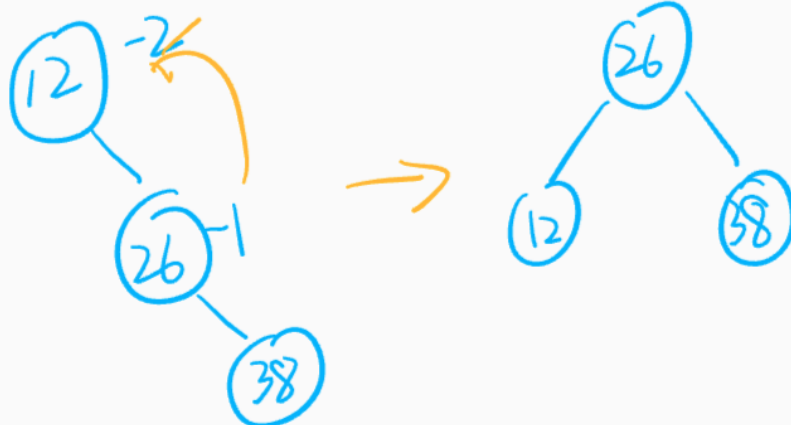
3.

0	1	2	3	4	5	6	7	8
21	35	100	3	78	99	20	45	
1	2	1	1	4	1	1	5	

$$\bar{L} = \frac{1+2+1+1+4+1+1+5}{8} = 2$$

4.

4.



5.

```

bool isBST(node* root){
    if (!root) return true;
    if (!root->left) return root->value <= root->right->value && isBST(root->right);
    if (!root->right) return root->value > root->left->value && isBST(root->left);
    return root->value > root->left->value &&
        root->value <= root->right->value &&
        isBST(root->left) && isBST(root->right);
}

```

6.

```

list<node> space[maxn];
void insert(node x){
    int idx = hash(x);
    space[idx].push_back(x);
}

```