第九章作业

2022211363 谢牧航

第九季作出 202271363 潮牧航 -. 选择. 1. A 2. D 3. C. 4. D 5. A 6.A 1.13 二、海海。 1,(1) ASL=3+4x2+13x3 + 24×4)/12 = 146/12 G H6 J5 L4 (2) 所缀和 CDEFGHIJKL 13 17 26 29 31 37 38 43 46 50 ASL = (9+7x2+13x3 \Rightarrow + 21×4)/12 = 146 112

2. (1) ·

Jan ASL=(1+2x2+3x3) T=b Mav 13x4+5x2+b)/n =42/12 Apr June Aug July Sep Oct Nov

Asl=(1+2x2+4x3T4x4

12)

Jan Oct +5)=38/12

Aug June May Sep

Teb July Nov

Del

•••



三、算法题

1.

```
int binary_search_last_not_greater(int arr[], int size, int value) {
    int left = 0;
    int right = size - 1;
    int result = -1;
    while (left <= right) {
        int mid = left + (right - left) / 2;

        if (arr[mid] <= value) {
            result = mid; // 更新结果为当前中点, 但继续在右侧查找可能的更大值
            left = mid + 1;
        } else {
            right = mid - 1;
        }
    }
    return result;
}</pre>
```

2.

```
void insert_in_order(int arr[], int* size, int x) {
   int left = 0;
   int right = *size - 1;
   int pos = *size; // 默认插入位置是数组末尾
   while (left <= right) {</pre>
       int mid = left + (right - left) / 2;
       if (arr[mid] < x) {</pre>
           left = mid + 1;
       } else {
           pos = mid; // 更新插入位置为中点
           right = mid - 1;
       }
   }
   // 将元素从 pos 位置开始向后移动
   for (int i = *size; i > pos; --i) {
       arr[i] = arr[i - 1];
   }
   arr[pos] = x; // 在正确位置插入元素 x
   (*size)++; // 增加数组的大小
}
3.
void print_if_not_less_than_x(TreeNode *root, int x) {
   if (root == NULL) {
       return;
   }
   // 先递归访问右子树
   print_if_not_less_than_x(root->right, x);
   // 如果当前节点的值小于x,则不需要再访问左子树
   if (root->val < x) {</pre>
       return;
   }
   // 输出当前节点的值
   printf("%d ", root->val);
   // 最后递归访问左子树
   print_if_not_less_than_x(root->left, x);
}
```