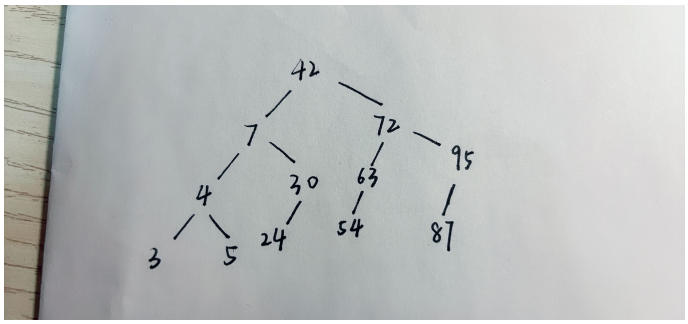
7.2.1

1.



2. 42 72 63 54
3. 42 72 95 87
4. ALS=(1+2*2*+*3*4+4*5)/12=3.08

7.3.1

```
int BinarySearch(int arr[], int low, int high, int key) {
if (low > high) {
return -1; // 查找失败
}
int mid = (low + high) / 2;
if (arr[mid] == key) {
return mid; // 查找成功
} else if (arr[mid] > key) {
return BinarySearch(arr, low, mid - 1, key); // 在左半部分查找
} else {
return BinarySearch(arr, mid + 1, high, key); // 在右半部分查找
} }
```