查找.md 2020/10/14

//折半查找

```
int Bsearch(int R[], int low, int high, int k){
   int mid;
   while(low <= high) // 当子表长度大于等于1时进行循环
      mid = (low + high) / 2;
      if(R[mid] == k)
         return mid;
      else if(R[mid] > k)
         high = mid - 1;
      else
         low = mid + 1;
   return 0;
}
// 索引查找 (分块查找)
// 第一步二分查找, 第二步顺序查找
typedef struct{
  int key; //假设表内元素为int型
  int low, high; //记录某块中第一个和最后一个元素的位置
}indexElem;
indexElem index[maxSize]; // 定义索引表
```

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```
//二叉排序树 查找
BTNode* BSTSearch(BTNode* bt, int key)
   if(bt == null)
     return null;
   else
   {
       if(bt->val == key)
          return bt;
       else if(key < bt->val)
          return BSTSearch(bt->left, key);
          return BSTSearch(bt->right, key);
//二叉排序树 插入
int BSTInsert(BTNode* bt, int key)
{
   if(bt == null)
      BTNode* bt = new BTNode(key);
      return 1;
   else
       if(key == bt->val)
          return 0;
       else if(key < bt->val)
          BSTInsert(bt->left, key);
       else
          BStInsert(bt->right, key);
```