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**%** 判断题(共 26 分) 13/13

A. 单选题(共 60 分)

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❷ 程序填空题(共6分)

**✓** 

fn 函数题(共8分) 0/1

X

## 浙江大学2019-20学年春夏学期《高级数据结构与算法分析》课程期末考试试卷

**火 判断题 13** ❷ 程序填空题 1 fn 函数题 1 A.单选题 20

static int order = DEFAULT\_ORDER;

typedef struct BpTreeNode BpTreeNode;

5-1 The function FindKey is to check if a given key is in a B+ Tree with its root pointed by root. Return true if key is in the tree, or false if not. The B+ tree structure is defined by root. as following:

```
struct BpTreeNode {
    BpTreeNode** childrens; /* Pointers to childrens. This field is not used by leaf nodes. */
    ElementType* keys;
    BpTreeNode* parent;
    bool isLeaf; /* 1 if this node is a leaf, or 0 if not */
    int numKeys; /* This field is used to keep track of the number of valid keys. In an internal node, the number of valid pointers is always numKeys + 1. *
};
bool FindKey(BpTreeNode * const root, ElementType key){
    if (root == NULL) {
            return false;
    int i = 0;
    BpTreeNode * node = root;
                                  (3分)) {
    while ( !node->isLeaf
        i = 0;
        while (i < node->numKeys) {
            if ( key >= node->keys[i]
                                             (3分)) i++;
            else break;
        node = node->childrens[i];
    for(i = 0; i < node -> numKeys; <math>i++){
        if(node->keys[i] == key)
            return true;
    return false;
```