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\* apple.c 插入查找算法

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#include <stdio.h>

int insert\_search(int str[],int low,int high,int key)

{

int mid;

if(low>high)return -1;

//mid = (low+high)/2;

//mid = low + (key-str[low])/(str[high]-str[low])\*(high-low);

mid = low + (key-str[low])\*(high-low)/(str[high]+str[low]);

printf("\nmid=%d",mid);

if(str[mid]==key)return mid;

if(str[mid]>key)return insert\_search(str,low,mid-1,key);

if(str[mid]<key)return insert\_search(str,mid+1,high,key);

}

int main()

{

int k,str[11] = {1,1,2,3,5,8,13,21,34,55,89};

int addr;

printf("Please enter a key you want to search:\n");

scanf("%d",&k);

addr = insert\_search(str,0,10,k);

printf("The addr is :%d\n",addr);

return 0;

}

