实验七 快速排序

#include<iostream>

using namespace std;

void quicksort(int \*a, int low, int high)

{

if(low<high)

{

int i = low, j = high, temp = a[low];

while(i<j)

{

while(i<j&&a[j]>=temp)

j--;

if(i<j)

{

a[i] = a[j];

i=i+1;

}

while(i<j && a[i]<= temp)

i++;

if(i<j)

{

a[j] = a[i];

j=j-1;

}

}

a[i] = temp;

quicksort(a, low, i-1);

quicksort(a, i+1, high);

}

}

int main()

{

int i;

int a[10];

cout<<"输入需要排序的10个数:"<<endl;

for(i=0;i<10;++i)

{

cin>>a[i];

}

quicksort(a, 0, 9);

cout<<"快速排序结果:"<<endl;

for(i=0;i<10;++i)

{

cout<<a[i]<<" ";

}

cout<<endl;

return 0;

}