SELECTION SORT

#include<stdio.h>

#include<conio.h>

int smallest(int arr[],int k,int n);

int sort(int a[],int n);

void main()

{

int a[20],i,n,j;

clrscr();

printf("ENTER THE LIMIT=");

scanf("%d",&n);

printf("ENTER THE ELEMENTS=");

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

scanf("%d",&a[i]);

printf("ARRAY BEFORE SOTTING\n");

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

printf("\t%d",a[i]);

sort(a,n);

printf("\nARRAY AFTER SORTING\n");

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

printf("\t%d",a[i]);

getch();

}

int smallest(int a[],int k,int n)

{

int small,pos,j;

small=a[k];

pos=k;

for(j=k+1;j<n;j++)

{

if(small>a[j])

{

small=a[j];

pos=j;

}

}

return pos;

}

int sort(int a[],int n)

{

int k,temp,pos;

for(k=0;k<n;k++)

{

pos=smallest(a,k,n);

temp=a[k];

a[k]=a[pos];

a[pos]=temp;

}

return 0;

}

