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#include<stdio.h>
#include<conio.h>
#include<stdlib.h>

int n;

void quicksort(int a[ ],int l,int r)
{
int x,i,j,temp,k;
i=l;
j=r;
x=a[(l+r)/2];
while(i<j)
{
    while(a[i]<x)
        i++;
    while(x<a[j])
        j--;
    if(i<j)
    {
        temp=a[i];
        a[i]=a[j];
        a[j]=temp;
    }
}
printf("End of PASS output:\n");
for(k=0;k<n;k++)
    printf("%d\t",a[k]);
printf("\n");
if(l<j)
    quicksort(a,l,j-1);
if(i<r)
    quicksort(a,i+1,r);
}

void main( )
{
int *info,i;

printf("feed no of data items\n");
scanf("%d",&n);
info=(int *)malloc(sizeof(int)*n);

printf("feed in the values\n");
for(i=0;i<n;i++)
    scanf("%d",&info[i]);

quicksort(info,0,n-1);

printf("the list data is as follows\n");
for(i=0;i<n;i++)
    printf("%d\t",info[i]);
}

```

