

Developing and executing 'C' programs – (By using local and global variables)

Write a C program to read an array of yield of paddy from different fields and find total, mean and median value using User Defined Function

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/*TO FIND THE TOTAL, MEAN, MEDIAN OF YIELD OF PADDY */
#include<stdio.h>
#include<conio.h>
float total(),mean();
void median();
void main()
{
    float a[15],t,m;
    int i,n;
    clrscr(
);
    printf("\nENTER TOTAL NO OF ELEMENTS:");
    scanf("%d",&n);
    printf("\nENTER THE YIELD OF PADDY ONE BY ONE:");
    for(i=0;i<n;i++)
    {
        scanf("%f",&a[i]);
    }
    t=total(a,n);
    m=mean(a,n);
    printf("\nTHE TOTAL YIELD OF PADDY IS %f",t);
    printf("\nTHE MEAN VALUE OF YIELD OF PADDY IS
%f",m);
    median(a,n);
    getch();
}

/*Function to find total value */
float total(a1,n1)
float a1[15];
int n1;
{
    int i;
    float tot=0.0;
    for(i=0;i<n1;i++)
    {
        tot=tot+a1[i];
    }
    return(tot);
}/* End of total function */

/*Function to find mean value */
float mean(a1,n1)
float a1[15];
```

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int n1;
{
    int i;
    float tot=0.0,m;
    for(i=0;i<n1;i++)
    {
        tot=tot+a1[i];
    }
    m=tot/
    n1;
    return(
    m);
}/* End of mean function */

/*Function to find median value */
void median(a1,n1)
float a1[15];
int n1;
{
    void sort();
    int x,medpos,i;
    sort(a1,n1);
    x=n1%2;
    if(x!=0)
    {
        medpos=(n1+1)/2;
        printf("\nTHE MEDIAN VALUE IS %f",a1[medpos-1]);
    }
    else
    {
        medpos=n1/2;
        printf("\nTHE MEDIAN VALUES ARE %f %f",a1[medpos-1],a1[medpos]);
    }
}/* End of median function */

/*Function to sort value */
void sort(a2,n2)
float a2[15];
int n2;
{
    int i,j;
    float t;
    for(i=0;i<=n2-1;i++)
    {
        for(j=i+1;j<n2;j++)
        {
            if(a2[i]>a2[j])
            {
                t=a2[i];
                a2[i]=a2[j];

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        a2[j]=t;
    }
}
}
```