

```
//standard deriation
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[25],n,i,sum=0;
    float avg,v,sd=0,s=0;
    clrscr();
    printf("enter n:");
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
        sum=sum+a[i];
    }
    avg=sum/n;
    printf("sum=%d\navg=%f",sum,avg);
    for(i=0;i<n;i++)
    {
        s=s+(a[i]-avg)*(a[i]*avg);
    }
    v=(float)(sum/n);
    sd=sqrt(v);
    printf("\nsd=%f",sd);
    getch();
}
```