

Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers

```
#include<stdio.h>
#include<math.h>
int main()
{
    int n , i;
    float x[20],sum,mean;
    float variance , deviation;
    printf("Enter the value of n \n");
    scanf("%d",&n);
    printf("enter %d real values \n",n);
    for (i=0;i<n;i++)
    {
        scanf("%f",(x+i));
    }
    sum=0;
    for(i=0;i<n;i++)
    {
        sum= sum+*(x+i);
    }
    printf("sum=%f\n",sum);
    mean=sum/n;
    sum=0;
    for(i=0;i<n;i++)
    {
        sum=sum+(*(x+i)-mean)*(*(x+i)-mean);
    }
    variance=sum/n;
    deviation=sqrt(variance);
    printf("mean(Average)=%f\n",mean);
    printf("variance=%f\n",variance);
    printf("standard deviation=%f\n",deviation);
}
```