#include<stdio.h>

#include<math.h>

int main()

{

int i,n;

float a[10],mean,sd,sum,var;

float \*p; // p is a pointer to float value

printf("\n Enter Number of elements :");

scanf("%d",&n);

printf("\n Enter the elements :");

p=a; // pointer p points to first element of a

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

{

scanf("%f",p);

p++; // pointer p points to the next element of the array

}

p=a; // Initialize p to the first element of the array

printf("\n input Elements are:\n");

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

{

printf("%f",\*p);

p++; // Pointer p is made to point to the next element

}

p=a; // Initialize p to the first element of the array

sum=sd=mean=var=0;

// Find the sum of the array elements

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

{

sum=sum+(\*p);

p++;

}

// Find the mean

mean=sum/n;

// Find variance

p=a;

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

var=var+pow((\*p-mean),2);

p++;

}

var=var/n;

sd=sqrt(var);

// Print Sum, mean and Standard Deviation

printf("\n\n mean=%f\nsum=%f\nsd=%f\nvar=%f\n",mean,sum,sd,var);

return 0;

};