#include<stdio.h>

#include<math.h>

int main()

{

int i,n; float a[10],mean,sd,sum,var;

float \*p;

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

scanf("%d",&n);

printf("\n Enter the elements p=a;

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

{

scanf("%f",p);

p++; }

p=a;

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

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

{

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

}

p=a;

sum=sd=mean=var=0;

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

{

sum=sum+(\*p);

p++;

}

mean=sum/n;

p=a;

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

{

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

p++;

}

var=var/n;

sd=sqrt(var);

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

return 0;

}

Out put:

$ cc pointers.c -lm

$ ./a.out

Enter the number of elements :5

Enter the elements :1

2

3

4

5

Input Elements are:

1.0000002.000000 3.000000 4.000000 5.000000

Mean =3.000000

Sum=15.000000

Sd=1.414214

Var=2.000000