Answer - Economics students (c)

```
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <string.h>
#include <math.h>
int main(int argc, char *argv[])
{
       int n,x;
       x=scanf("%d",&n);
       if(x<0)
                      return 1;
       float marks[n];
       for(int i=0;i< n;i++)
               {
                      float y;
                      x=scanf("%f",&y);
                      if(x<0)
                                     return 1;
                      if(y>100 || y<0)
                                     printf("INVALID INPUT");
                                     return 0;
                      else
                              {
                                     marks[i]=y;
       float mean=0, variance=0, standard_deviation;
       for(int i=0;i< n;i++)
               {
                      mean=(mean+marks[i]);
       mean=mean/n;
       for(int i=0;i<n;i++)
               {
                      variance=(variance+(((marks[i]-mean)*(marks[i]-mean))/(n)));
       standard_deviation=sqrt(variance);
       int one_stdd=0,two_stdd=0,rest=0;
       for(int i=0;i< n;i++)
                      if(marks[i]>(mean-standard_deviation) &&
marks[i]<(mean+standard deviation))
                                     one_stdd++;
                      if(marks[i]>(mean-(standard_deviation*2)) && marks[i]<(mean+
(standard_deviation*2)))
                              {
                                     two_stdd++;
                              }
```