**Source Program Listing**

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Language: C

#include <stdio.h>  
#include <math.h>  
  
int main() {  
   
 int n, i = 0;  
 double avg, sum = 0, upperSd = 0, sd;  
 double inputArr[500];  
   
 printf("Please enter the number of inputs: ");  
 scanf("%d", &n);  
   
 if(n > 0) {  
 for(i; i < n; i++) {  
 printf("\nInput # %d: ", i+1);  
 scanf("%lf", &inputArr[i]);  
 sum += inputArr[i];  
 }  
   
 avg = sum/n;  
   
 i = 0;  
 for(i; i < n; i++)  
 upperSd += pow((inputArr[i] - avg),2);  
   
 sd = sqrt(upperSd/(n-1));  
   
 printf("\n\nAverage: %lf", avg);  
 printf("\nStandard Deviation: %lf", sd);  
 }  
   
 return 0;  
}