**Source Program Listing**

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Date: 01/01/16  
Section: X23  
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;

}