My Project

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Chapter 1

Assignment-3

Starter Code for Assignment 3

2 Assignment-3

Chapter 2

File Index

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Here is a list of all documented files with brief descriptions:					
hw_broken.cc	Ę				

File Index

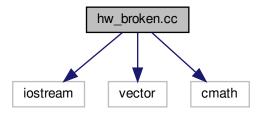
Chapter 3

File Documentation

3.1 hw_broken.cc File Reference

```
#include <iostream>
#include <vector>
#include <cmath>
```

Include dependency graph for hw_broken.cc:



Functions

• double deviation (int *a, int n)

A function to caluclate the standard deviation of a given array.

3.1.1 Function Documentation

File Documentation

3.1.1.1 deviation()

```
double deviation ( \inf \ * \ a \text{,} \inf \ n \ )
```

A function to caluclate the standard deviation of a given array.

The standard deviation is calculated according to the following formula

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^{N} (x_i - \epsilon)^2}$$

Where the mean $\boldsymbol{\epsilon}$ is calculated with the formula

$$\epsilon = \frac{\sum_{i=1}^{N} x_i}{N}$$

This standard deviation is of an entire population.

Parameters

а	- the input array of integers for deviation to be calculated
n	- the length of array a[]

Returns

Returns the standard deviation of the input array (as a double)fixed 2-11-19