

## My Project

Generated by Doxygen 1.8.15



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## Chapter 1

# Assignment-3

Starter Code for Assignment 3



## Chapter 2

# File Index

### 2.1 File List

Here is a list of all documented files with brief descriptions:

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## Chapter 3

# File Documentation

### 3.1 hw\_broken.cc File Reference

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

#### Functions

- double [deviation](#) (int \*a, int n)  
*Finds the standard deviation of an array of integers.*

#### 3.1.1 Function Documentation

##### 3.1.1.1 deviation()

```
double deviation (
    int * a,
    int n )
```

Finds the standard deviation of an array of integers.

<i>a</i>	The array of integers in question
<i>n</i>	The size of the array, or the amount of numbers to consider

#### Returns

The standard deviation of the first n numbers in a



## Chapter 4

# Standard Deviation Function

The equation for the standard deviation  $\sigma$  for a data set  $x_1, x_2, \dots, x_n$  is given by

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

where  $n$  is the size of the data set and  $x$  is the mean of the data set, given by

$$\sum_{i=1}^n \frac{x_i}{n}$$



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