

## Project 3

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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

Contains the deviation function definition.

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

#### Functions

- double [deviation](#) (int \*a, int n)

*Calculates the standard deviation for a set of integers using the following formula:*

#### 3.1.1 Detailed Description

Contains the deviation function definition.

#### 3.1.2 Function Documentation

##### 3.1.2.1 deviation()

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

Calculates the standard deviation for a set of integers using the following formula:

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

**Parameters**

$a$	– Array of integers
$n$	– Size of array

**Returns**

A double representing the standard deviation of array elements

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