

HW3 - Standard Deviation

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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:

hw_fixed.cc	5
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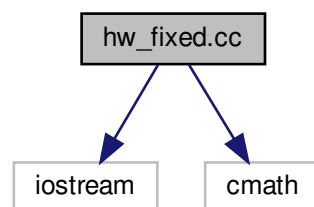
Chapter 3

File Documentation

3.1 hw_fixed.cc File Reference

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

Include dependency graph for hw_fixed.cc:



Functions

- double [deviation](#) (int *a, int n)
Calculate the standard deviation of a set of numbers.

3.1.1 Function Documentation

3.1.1.1 deviation()

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

Calculate the standard deviation of a set of numbers.

Uses the formula:

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

Parameters

<i>a</i>	- The array of numbers to calculate the standard deviation of
<i>n</i>	- The size of the set of numbers

Returns

A double precision number of the standard deviation

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deviation
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