My Project

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2.1 File List

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

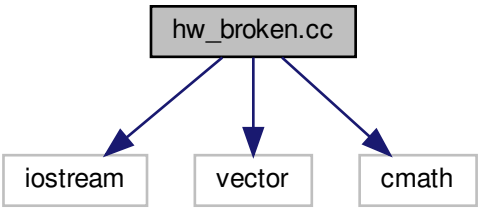
Chapter 3

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

3.1.1.1 deviation()

```
double deviation (
            int * a,
            int 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 ϵ is calculated with the formula

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

This standard deviation is of an entire population.

Parameters

a	- 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