

Homework 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 files with brief descriptions:

hw_broken.cc	5
hw_fixed.cc	5
main.cpp	6

Chapter 3

File Documentation

3.1 hw_broken.cc File Reference

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

Functions

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

3.1.1 Function Documentation

3.1.1.1 deviation()

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

3.2 hw_fixed.cc File Reference

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

Functions

- int [deviation](#) (int *a, int n)
Calculates the standard deviation of a array of integers.

3.2.1 Function Documentation

3.2.1.1 deviation()

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

Calculates the standard deviation of a array of integers.

$$= \sqrt{\Sigma |x - \mu|^2 / N}$$

Parameters

<i>a</i>	An array of integers
<i>n</i>	The size of array a

Returns

The standard deviation of all numbers in array a

3.3 main.cpp File Reference

```
#include <iostream>
#include "hw_fixed.cc"
```

Functions

- int [deviation](#) (int *a, int n)
Calculates the standard deviation of a array of integers.
- int [main](#) ()

3.3.1 Function Documentation

3.3.1.1 deviation()

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

Calculates the standard deviation of a array of integers.

Parameters

a	An array of integers
n	The size of array a

Returns

The standard deviation of all numbers in array a

3.3.1.2 main()

```
int main ( )
```

3.4 README.md File Reference

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