My Project

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File Index

1.1 File List

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

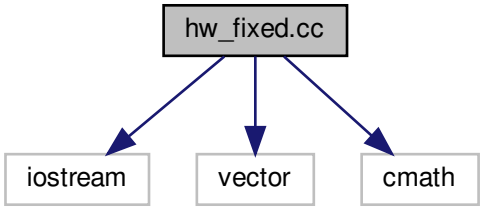
Chapter 2

File Documentation

2.1 hw_fixed.cc File Reference

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

Include dependency graph for hw_fixed.cc:



Functions

- double deviation (int *a, int n)

  This function is to calculate standard deviation.

2.1.1 Detailed Description

!

2.1.2 Function Documentation

2.1.2.1 deviation()

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

This function is to calculate standard deviation.

Parameters

a	This variable is for the array of integers
n	This variable is the number of integers in the array

Returns

This function returns the standard deviation of the integers in the array

Definition at line 22 of file hw_fixed.cc.

```
23 {
24     int sum;
25
26     for(size_t i = 0; i <= n-1; i++)
27     {
28         sum += a[i];
29     }
30
31     double mean = sum /= (n-1);
32     double stddev = 0;
33
34     for(size_t i = 0; i <= n-2; i++)
35     {
36         stddev += (a[i] - mean) * (a[i] - mean);
37     }
38
39     stddev /= (n-1);
40
41     if( stddev == 0)
42         std::cout << "Sigma is zero." << std::endl;
43     return sqrt(stddev);
44 }
```