

Doxygen Competency

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Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Array	A class representing a dynamic array	5
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Chapter 2

File Index

2.1 File List

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

array.cpp	Implementation of the Array class	7
array.h	Declaration of the Array class	8
arraydriver.cpp	Driver program to test the Array class	9

Chapter 3

Class Documentation

3.1 Array Class Reference

A class representing a dynamic array.

```
#include <array.h>
```

Public Member Functions

- `Array ()`
Default constructor.
- `~Array ()`
Destructor.
- `int size () const`
Gets the size of the array.

3.1.1 Detailed Description

A class representing a dynamic array.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 Array()

```
Array::Array ( )
```

Default constructor.

Postcondition

Creates an empty array

3.1.2.2 ~Array()

```
Array::~~Array ( )
```

Destructor.

Postcondition

Releases allocated memory

3.1.3 Member Function Documentation

3.1.3.1 size()

```
int Array::size ( ) const
```

Gets the size of the array.

Returns

int The size of the array

The documentation for this class was generated from the following files:

- [array.h](#)
- [array.cpp](#)

Chapter 4

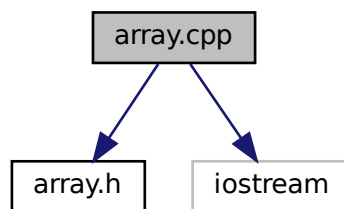
File Documentation

4.1 array.cpp File Reference

Implementation of the [Array](#) class.

```
#include "array.h"  
#include <iostream>
```

Include dependency graph for array.cpp:



4.1.1 Detailed Description

Implementation of the [Array](#) class.

Author

Kiran Kadariya

Date

01-27-2025

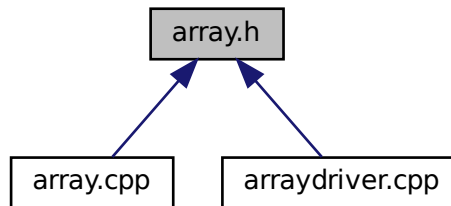
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4.2 array.h File Reference

Declaration of the [Array](#) class.

This graph shows which files directly or indirectly include this file:



Classes

- class [Array](#)

A class representing a dynamic array.

4.2.1 Detailed Description

Declaration of the [Array](#) class.

Author

Kiran Kadariya

Date

01-27-2025

Version

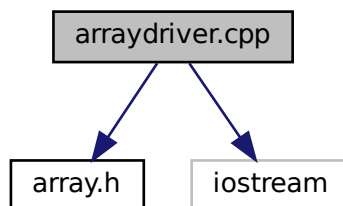
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4.3 arraydriver.cpp File Reference

Driver program to test the [Array](#) class.

```
#include "array.h"
#include <iostream>
```

Include dependency graph for arraydriver.cpp:



Functions

- int [main](#) ()

4.3.1 Detailed Description

Driver program to test the [Array](#) class.

Author

Kiran Kadariya

Date

01-27-2025

Version

1.0

4.3.2 Function Documentation

4.3.2.1 main()

```
int main ( )
```

Creates an instance of the [Array](#) class and tests its functionality

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