Sample doxygen dox

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Chapter 1

Main Page

This short program contains some sample code illustrating how the doxygen comments must appear

- for documenting a file, and in particular
- for documenting functions

when we intend to use the doxygen tool for preparing HTML documentation of our code. Note that this file is intended *only* to illustrate a particular set of **commenting conventions** and how they show up when implemented with doxygen. Your actual requirements may not be the same as shown here. Im particular you may need less (or more) than is shown here.

Pay careful attention, in the source code,
to the distinction between the special doxygen comments,
which produce output here, and regular C++ comments which are ignored by doxygen, and look at the source code to see how line breaks in this paragraph are produced.

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

Chapter 3

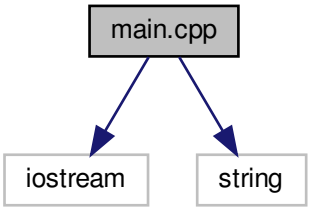
File Documentation

3.1 help.txt File Reference

3.2 main.cpp File Reference

```
#include <iostream>
#include <string>
```

Include dependency graph for main.cpp:



Functions

- void DoSomething (int numberOfPositions, char &firstInitial, string &stringOfInitials)
- int numberOfDigits (int n)
- int main ()

3.2.1 Function Documentation

3.2.1.1 DoSomething()

```
void DoSomething (
             int numberOfPositions,
             char & firstInitial,
             string & stringOfInitials )
```

A single statement goes here to give a high-level description of the function, which is ended by the first period. Any further description of the function, such as this statement that comes after the first statement, will appear as part of the "detailed description" for this function. The brief description may also be repeated here immediately prior to the detailed description, but the configuration file for this example is currently set to disable that feature.

Returns

void

Parameters

numberOfPositions	The number of positions firstInitial is to be moved forward.
firstInitial	A character representing the first letter in a person's first name (for example).
stringOfInitials	A string in which all characters are the same.

Precondition

1. numberOfPositions contains a positive integer.
2. firstInitial contains a printable character at least numberOfPositions positions from the end of the printable character set.

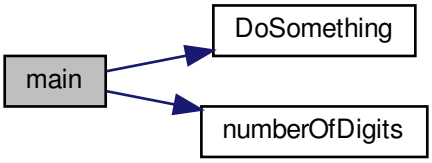
Postcondition

1. firstInitial contains the character numberOfPositions to the right of its original value.
2. stringOfInitials contains a string of length numberOfPositions in which each character is the original value of firstInitial.

3.2.1.2 main()

```
int main ( )
```

Here is the call graph for this function:



3.2.1.3 numberOfDigits()

```
int numberOfDigits (
            int n )
```

Compute and return the number of digits in a positive integer. The style used for the pre/post coditions of this function is purposely different from that for the void function given above, just so you can see the differnce in the HTML output.

Returns

The number of digits in n.

Parameters

n	An integer, the number of whose digits is desired.

Precondition

n contains a positive integer. This is some other precondition, and note that it does not start on a new line.

Postcondition

The number of digits in n has been returned.
This is some other post condition, and note that it does start on a new line.