

# gcheck - Code grading and testing framework

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Gcheck is a framework for testing and grading C/C++ code. It is used by making a C++ testing file that includes the `gcheck.h` header.

## Using gcheck

1. gcheck contains a main function that will run the tests specified. This means that there cannot be a main function in the sources to be tested or in the testing source described later.
2. Create a C++ source file, which will contain the tests and include `gcheck.h`.
3. Using the `Test(suite, name)` and `Test(suite, name, max_points)` macros, define the test functions.
4. a) With make: Compile the gcheck library using `make gcheck.o` and link `gcheck.o` to your code.  
b) Without make: Compile the gcheck library sources `gcheck.cpp`, `utility.cpp`, `argument.cpp` and link them to your code.

If the code to be tested is C, include it to the test source as below and compile it as C and the library and test source as C++.

```
extern "C" {  
    //insert includes here  
}
```

5. Voluntary: Use the `beautify.py` script to create a html file from the json report gotten from gcheck.