# Running SOS in C++ using CodeBlocks

You will have to use long instead of int to use this object file.

Rename soslongCodeBlocks.o as sos.o. Save it in the same directory as your os.cpp.

You can run in the windowed environment or on the command line (see below for those instructions).

**Running in the windowed environment (has a weird kludge in it):**

Create a project:
New | Project
Choose Console Application. Click Go.
Language : choose C++ , click Next
Name the project. I chose sos. Click Next
Uncheck Create Debug configuration. Click Finish.

You will see this project hierarchy:

Workspace
   sos
     Sources

Click on + next to Sources to open it. Right click on main.cpp and select Remove file from project. The whole Sources branch will be removed.

Add files to the project:

Select Project | Add files. Find and add os.cpp and then find and add sos.o. A new Sources branch will appear containing os.cpp, and sos.o will be places under Other.

Build and Run:
Select Build and Run. Errors will appear in the Windows window, and--if all is correct-- output will appear in a Cmd window.

Fixing an error
Right now, there is an error that I can solve only with a real kludge. I get this error when starting with os.cpp and sos.o:

Linking console executable: bin\Release\sos.exe
mingw32-g++.exe: obj\Release\sos.o: No such file or directory

However, I solved it, and you can, too. Once you've gotten to this point, find sos.o and – using Windows Explorer—copy it into the correct directory.  In my project, where the full path to the project is C:\Class\SOS project\sos, the correct place to copy the file is this:

C:\Class\SOS project\sos\obj\Release       (you'll see that the os.o file is already there)

Choose "Build and run" again, and it will run if there are no errors in your file.

**Running on the Command Line:**

Put sos.o and os.cpp into the CodeBlocks\MinGW\bin folder.
Open a cmd window (In XP, Start | Run, then type cmd in the entry box and press Enter)
or in Windows 7, Start, then type cmd in the entry box and press the search icon)

Change to the appropriate folder:
cd \ <enter>
cd CodeBlocks\MinGW\bin <enter>

compile and link:

g++  os.cpp  sos.o  <enter>

If there are errors, they will appear in the cmd window. Fix the program in the editor and repeat compile and link.

If there are no errors, there will be an executable file called a.exe

Run the program by typing the name of the file at the prompt:

a <enter>

The output will appear in the cmd window and can be copied and pasted into a document for printing.