Homework 5, due 2/11

The mangled name “_Z4easyi” is produced for the function with signature “easy(int)”. For each mangled name below, supply a corresponding signature. Write the signature as it could be written in the source code. Use the name-mangling method of versions 3.1.1 and later of the GNU compiler. To check the compiler version:

    g++ --version

To use a new enough version of the compiler:

    source /comp/150C++/etc/dot.login

This will yield version 3.3.2 on “moon” or any Sun workstation running version 5.9 of the operating system. It will yield version 3.1.1 on older versions of Solaris.

Note that you can write test programs and compile them to assembly language in order to see how signatures are mapped to mangled names. You can and should do this to check your answers before turning them in. In fact, you can expect to do quite a bit of trial-and-error with the compiler in order to figure out the scheme. Be sure to try classes and pointers to functions as arguments.

_Z1RiRi
_Z4_Z4_PcS_
_Z2FEPFi1iE1i
_Z2PFPfiPFiiEEi
_Z1PP1PP2PP