

Homework 1

Do homework problems 2.64, 2.72, 2.73, and 2.82 from Bryant & O'Hallaron 3rd edition. If using 2nd edition, do problem 2.81 instead of 2.82.

In addition, redo problem 2.73, this time using a call to the [__builtin_add_overflow](#) function available in GCC 5 and later; the third argument of the call should consist of the unary address-of operator '&' applied to a local variable. In other respects your function should continue to follow the bit-level integer coding rules.

Submit your homework answers as a gzipped tarball containing your answers to each problem, in the files hw1/2.64.c, hw1/2.72.txt, hw1/2.73.c, hw1/2.82.txt, and hw1/2.73-redo.c respectively. The .txt files should be plain ASCII text files with lines terminated by LF. The .c files should compile cleanly with shell commands like this:

```
gcc -O2 -Wall -Wextra -S hw1/2.73.c
```

As we will grade your submission with the latest version of GCC installed in /usr/local/cs/bin/ on the newer SEASnet GNU/Linux servers, it would be wise to check your work on that platform. On this platform the shell command 'gcc --version' should output 'gcc (GCC) 6.2.0' or later.

To create your tarball, use the shell command:

```
tar -cf - hw1/2.64.c hw1/2.72.txt hw1/2.73.c hw1/2.82.txt hw1/2.73-redo.c |  
gzip -9 >hw1.tar.gz
```

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