Note that problems from the Bryant and O’Hallaron’s (CMU) textbook are from the third edition.

1. (On decompiling arithmetic operations.) Solve problem 3.58, on page 311, from our CMU text. (*Hint:* you may want to introduce temporary C variables for different computations.)

2. (On conditional statements.) Solve problem 3.61, on page 313, from our CMU text. (*Hint:* you may need to experiment with running GCC on different versions of your code. Compile your code with the -O1 flag.)

3. (On decompiling a C “for” loop.) Solve problem 3.60, on page 312-313, from our CMU text. (*Hint:* note that register %cl is embedded in registers %ecx and %rcx.)

4. (On decompiling a C “switch” statement.) Solve problem 3.62, on page 313-314, from our CMU text.

5. (On array layout and access.) Solve problem 3.65, on page 317, from our CMU text.

6. (On structures and stack discipline.) Solve problem 3.67, on page 318-320, from our CMU text.