

Introduction to Computer Science E13 – Discussion Sections 3 – Week 38

Pages 60–61: Problems 1c, 2c, 3b, 4c, 5.

Page 71: Problems 1b, 1c, 2b, 2d (for these problems use the floating-point format discussed in class, which is the same as in the textbook except that it uses an implicit bit in the mantissa).

Page 80–81: Problems 1, 2, 5, 6.

Page 84: Problem 39 (again use the format discussed in class).

Page 85: Problems 51a, 54.

1. Choose two floating point numbers and add them together. If you cannot express the result in the same format, try two other numbers.
2. Choose a number which cannot be expressed exactly in the floating point format we use, but could be expressed exactly if there were more bits. How many more bits do you need?