

# Assignment 19

Due by class time Thursday, December 1

1. Read or skim section 6.4 of *Quantum Computing for Computer Scientists* (pages 195–204).
2. Invert the numbers 21, 17, 77, 34, 19, and 27 about their mean.
3. Show the matrix  $2A - I$  that would implement the equivalent inversion operation that you performed in the previous exercise.
4. Do Exercise 6.4.4 on page 202.