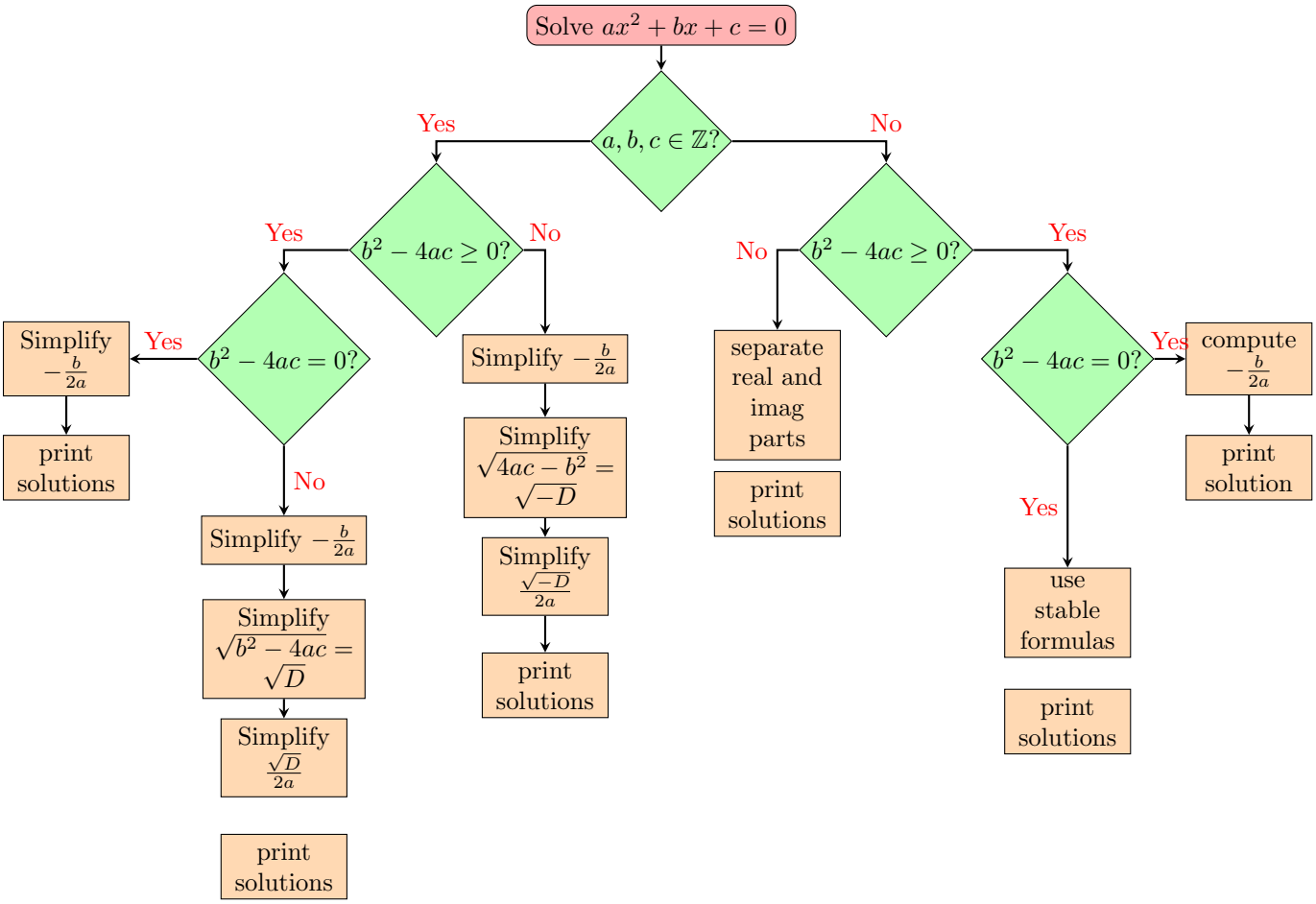
CS 7A - Spring 2016 - Solving Quadratic Equations. Due 3/15/16

Implement the following algorithm for solving quadratic equations. See http://tinyurl.com/zwfqwe4 for stability discussion.



The program should prompt the user as to whether they want to solve a quadratic with integer coefficients and get the exact, simplified solutions, or whether they want to solve for approximate solutions.

A typical run might look like this:

```
This program will solve a quadratic equation in either integer (exact) mode
or floating point (approximate) mode.
Does your quadratic have integer coefficients? y

Ok. Enter three integer coefficients, a, b, and c: 2 2 8

The solutions to 2x^2 + 2x + 8 = 0 are
x1 = -1/2 - sqrt(15)*i/2
x2 = -1/2 + sqrt(15)*i/2
Enter three integer coefficients, or 'q' to quit:
```