# CIS 122—Algorithms and Programming

## Quiz #2

### August 2, 2004

When run, the following program prints out a series of messages to the screen before quitting:

```
#include <iostream.h>

int f(int y);
void g(int x);
void h();

int main() {
  int x = 5;

  cout << "In main(), x = " << x << endl;

  x = f(x*x) - 1;
  cout << "In main(), x = " << x << endl;

  cout << "Calling g() ..." << endl;
  g(x);
  cout << "Finished g()" << endl;

  cout << "In main(), x = " << x << endl;

  return 0;
}

// continued on the next page ...
```

```
int f(int y) {
  cout << "In f(), y = " << y << endl;

  return (y + 43 - y);
}

void g(int x) {

  cout << "In g(), x = " << x << endl;
  cout << "Calling h() ..." << endl;
  h();
  cout << "Finished h()" << endl;

  x = 0;
}

void h() {
  cout << "Running h() ... " << endl;
}
```

Write out the messages exactly as they are displayed on the screen, in the order in which they are printed.