Answer Key
CSUF Fall 2015
CPSC 121-11
Reassessment 04

## Question 1

file I/O

Given

```
1 2 3 4 5 6 7 8 9 10
```

write an entire program (including #include directives and using std::... statements) to generate

```
1 4 9 16 25 36 49 64 81 100 output.gen.txt
```

without hard coding the number of integers to read in. Be sure to check that opening each file succeeded before reading from or writing to it, and return 1; from main() if it did not.

```
#include <fstream>
using std::ifstream;
using std::ofstream;
int main() {
   ifstream infile("input.txt");
   if (! infile.is_open() )
       return 1; // error
   ofstream outfile("output.gen.txt");
   if (! outfile.is_open() )
       return 1; // error
   int n;
   infile >> n;
   while (infile.good()) {
       outfile << n*n << " ";
       infile >> n;
   return 0; // success
```