CSE1502-O3 Fall 2008 Exam #1.
Open book, open notes, no computers.

What do each of the following print? (5 points each)

	ANSWERS
`cout << 3 / 2 - 0.1;`	**0.9**
`cout << 4 - 1 + 0.5;`	**3.5**
`cout << -12 % 5;`	**-2**

```
int a = 5, b = 10;
cout << ++a * b--;                60
```

```
int a = 5, b = 10;
while (a != b)
  cout << ++a << " ";             6 7 8 9 10
```

```
for (int i = 5; i < 10; ++i)
  cout << i << " ";               5 6 7 8 9
```

```
int a = 5, b = 10;
if (a = b)
  cout << a;                      10
else
  cout << a * b;
```

```
int a = 5;
do
{
  cout << a;                      5
  a += 2;
} while (a < 0);
```

```
for (int i = 1; true; i += i)
{
  if (i == 32)
    break;
  cout << i << " ";               1 2 4 8 16
}
```

```
int a = 5, b = 10;
if (a == 4);
  cout << a << " ";               5 10 a
  cout << b << " ";
cout << "a";
```

Name _____

Write a program that reads a list of numbers (type double) and prints their average. Assume that the input contains numbers separated by spaces and that the list ends either with an end of file (Ctrl-Z if reading from the keyboard) or any input that is not a valid number. The input list can be any length, 1 number or longer. For example (user input in **bold**) (50 points):

5 2.5 -0.9 x
The average is 2.2

0 1 2 3 4 5 ^Z
The average is 2.5

```
// ANSWER
#include <iostream>
using namespace std;
int main()
{
  double sum = 0, x;
  int count = 0;
  while (cin >> x)
  {
    sum += x;
    ++count;
  }
  cout << "The average is "
       << sum / count << endl;
  return 0;
}
```