8: Is the following statement valid? If not, why not? If so, what does it do?

```c
int x = (1,024);
```

What about the following?

```c
int y;
y = 1,024;
```

9: How does `cin>>ch` differ from `cin.get(ch)` and `ch=cin.get()` in how it views input?

### Programming Exercises

1: Write a program that requests the user to enter two integers. The program then should calculate and report the sum of all the integers between and including the two integers. At this point, assume that the smaller integer is entered first. For example, if the user enters 2 and 9, the program reports that the sum of all the integers from 2 through 9 is 44.

2: Write a program that asks you to type in numbers. After each entry, the number reports the cumulative sum of the entries to date. The program terminates when you enter a zero.

3: Daphne invests $100 at 10% simple interest. That is, every year, the investment earns 10% of the original investment, or $10 each and every year:

```plaintext
interest = 0.10 x original balance
```

At the same time, Cleo invests $100 at 5% compound interest. That is, interest is 5% of the current balance, including previous additions of interest:

```plaintext
interest = 0.05 x current balance
```

Cleo earns 5% of $100 the first year, giving her $105. The next year she earns