# **Clicker Questions**

- **Question 1**: What is the output of **p1.cpp** when it runs with **input-1.txt** as standard input?
- **Question 2**: What is the output of **p2.cpp** when it runs with **input-1.txt** as standard input?
- **Question 3**: What is the output of **p3.cpp** when it runs with **input-2.txt** as standard input?

(BTW, I'm omitting the "include" and "using" lines to conserve space. Just pretend that the correct ones are there.)

#### input-1.txt <u>p1.cpp</u> int main() Dear Earl. Great Job! Love Madison string s, r; while (cin >> s) { input-2.txt r += s: cout << r.size() << endl;</pre> return 0: seven 3 <u>p3.cpp</u> <u>p2.cpp</u> int main() int main() string s; int i; vector <string> v; int total; size t i; int total; total = 0; while (!cin.fail()) { while (cin >> s) v.push back(s); cin >> i;total = 0; total++; for (i = 1; i < v.size(); i++) { total += (v[i][0] - v[i-1][0]);cout << total << endl;</pre> return 0; cout << total << endl;</pre> return 0;

### **Clicker Answers**

### **Question 1:**

The program reads six strings:

- 1. "Dear" -- 4 characters.
- 2. "Earl," -- 5 characters (the comma counts).
- 3. "Great" -- 5 characters
- 4. "Job!" -- 4 characters (the exclamation point counts).
- 5. "Love" -- 4 characters
- 6. "Madison" -- 7 characters

Thus, **r** will be the sum of the characters. The answer is 29.

# **Question 2:**

This reads in the same six strings. It then sums up the difference between each adjacent pair of first characters:

- 1. ('E' 'D') = 1.
- 2. ('G' 'E') = 2.
- 3. ('J' 'G') = 3.
- 4. ('L' 'J') = 2.
- 5. ('M' 'L') = 1.

The sum is 9.

# **Question 3:**

Does this question seem familiar? It should -- it's pretty much the same as the **eof()** question from the last set. **cin.fail()** doesn't return **true** until you try to read "seven". Thus, that **while** loop is exectued four times -- the answer is 4.