

We had a great variety in the solutions turned in by the various schools. I was surprised by how many different representations there were. Nine all counted to 50 correctly.

<b>School</b>	<b>Location</b>	<b>Teacher</b>
Brookville High School	Brookville, Ohio	Sandy Dobberstein
Canton Central School	Canton, New York	Meg Clemens
McIntosh High School	Peachtree City, Georgia	Diane Freeman
Fairview High School	Boulder, Colorado	Denise Fuji McCleary
The Westminster Schools	Atlanta, Georgia	Ellen Vesey
Boulder Creek High School	Anthem, Arizona	Julie Baldwin
University High School	Spokane Valley, Washington	Michael Conklin
Hickman High School	Columbia, Missouri	Deanna Wasman
Pine View School	Osprey, Florida	Ann Hankinson

A special note should be made of David Lucia's work. David, a student of Mrs. Caldwell's, was able to write the first 100 integers using 1979.

Since many schools are just completing their 3<sup>rd</sup> week of classes, our problem for this week again requires no specific technique from calculus. Students should be able to figure out what is happening by trying several examples. The trick then is to figure out how to prove what appears to be true and explain the results that you see.

By the 3<sup>rd</sup> problem, all classes are expected to have covered the definition of derivative. Students will need to be comfortable with the definition and with the basic derivative rules to be able to handle problems 3 and 4.