Numbers to Words

This project will deal with conditionals, loops, and random numbers.

Turn in

- On Titanium: Your solution as a single PDF composed of
  - Your .cpp file
  - Screenshots of 5 runs of your program
- In class: The same document, printed

Rules

- If your solution uses arrays then it must not use loops (i.e., it must be fully recursive).
- Functions are optional, but recommended.
- Please try to design the algorithm on your own, or with other students, or with help from us.
- You may, randomly, be required to explain and justify your algorithm, and any code you write. If you're worried you might forget something, please comment your code so that you don't.

Suggestions

- Look up the `rand()` and `srand()` functions.
- Recall the modulus operator (`%`), integer division, and switch statements.
- Think carefully about which type of loop would most cleanly do what you want. If you're not sure, and you have time, try all three.
- Don't be afraid to use the member functions of `std::string`, if you need them: `http://en.cppreference.com/w/cpp/string/basic_string`.
- Be sure to include the header files declaring the functions that you're trying to use!

Requirements

In comments at the top of your code, please include:

- Your name.
- The assignment (i.e., "Project 4").
- Your development environment (including version number).
- A list of any nontrivial references you consulted while writing your solution.
- A list of any notes you have regarding the assignment or your solution.
  - This should include a short discussion of any issues you ran into while using `rand()`, or testing your program. Are there any limitations of `rand()` that you happened to notice?
- A pseudocode description of your algorithm, written as if to explain your ideas to an average classmate without previous knowledge of the assignment.

Your code must:

- Use standard C++ functions to obtain two pseudo-random integers that are *not* the same on every run of the program.
  - The first should be called `start`, and should be between -2^{31} and $2^{31} - 1$, inclusive.
  - The second should be called `offset`, and should be between 2 and 8, inclusive.
- Print out a message indicating the value of `start`.
- Print out a message indicating the value of `offset`.
- Print out (each on its own line) the English form of the integer `start`, and every third integer after that until `offset` integers have been printed.

Sample Screenshot