This daily will allow you to practice with the left shift operator "<<". Write a main program that declares an unsigned integer named x and initializes it with the value of 1. Write a forloop that prints out an iteration number starting from zero, a colon, and the value of x on a single line. Your loop should then use the left shift operator to shift the value of x over by one bit to the left and then save the new value in x. Allow the loop to run until the number x is equivalent to zero. Your output should look something like the following:



You may have more numbers listed if you are on a machine with 64 bit integers. You may not use the multiply operator "\*" in this assignment. You may also want to use %u instead of %d for printing your numbers so that you get an unsigned integer representation instead of a signed one.

At the top of your code you should have a comment section that has the following format: