

In this assignment you will implement seven recursive functions, and print a table of their values. Here are the functions.

1. $f(0) = 0, f(x) = f(\lfloor x/2 \rfloor) + 1$
2. $f(0) = 0, f(x) = f(\lfloor x/2 \rfloor) + x$
3. $f(0) = 0, f(x) = 2f(\lfloor x/2 \rfloor) + 1$
4. $f(0) = 0, f(x) = 2f(\lfloor x/2 \rfloor) + x$
5. $f(0) = 0, f(x) = f(x-1) + 1$
6. $f(0) = 0, f(x) = f(x-1) + x$
7. $f(0) = 0, f(x) = 2f(x-1) + 1$