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

1. \( f(0) = 0, f(x) = f\left(\left\lfloor \frac{x}{2} \right\rfloor \right) + 1 \)
2. \( f(0) = 0, f(x) = f\left(\left\lfloor \frac{x}{2} \right\rfloor \right) + x \)
3. \( f(0) = 0, f(x) = 2f\left(\left\lfloor \frac{x}{2} \right\rfloor \right) + 1 \)
4. \( f(0) = 0, f(x) = 2f\left(\left\lfloor \frac{x}{2} \right\rfloor \right) + x \)
5. \( f(0) = 0, f(x) = f(x-1) + 1 \)
6. \( f(0) = 0, f(x) = f(x-1) + x \)
7. \( f(0) = 0, f(x) = 2f(x-1) + 1 \)