

Zadatak 21. Ako je $f(0) = 1$, $f(x) = x + f(x - 1)$, za $x > 0$, koliko je $f(100)$?

Rješenje.

$$f(0) = 1$$

$$f(x) = x + f(x - 1), \quad x > 0$$

$$\underline{f(100) = ?}$$

$$\begin{aligned}f(100) &= 100 + f(99) = 100 + 99 + f(98) = 100 + 99 + 98 + f(97) \\&= \dots = 100 + 99 + 98 + \dots + 1 + f(0) = 5\,050 + 1 = 5\,051.\end{aligned}$$