
$$\begin{aligned}
f(1, 0, 4) &= f(11, 0, 3) \\
&= f(10, 11, 2) + f(11, 0, 2) \\
&= f(111, 0, 1) + 2f(11, 0, 1) + 2f(10, 11, 1) \\
&= f(110, 11, 0) + 5f(11, 0, 0) + 5f(10, 11, 0) + 2f(111, 0, 0) \\
&= 1 + 5 + 5 + 2 \\
&= 13
\end{aligned}$$
