Base case:
$$h = 0$$

Prove: $g_0 = F_{(0+2)} - 1$

LHS = $g_{(0)}$
= 0

RHS = $F_{(0+2)} - 1$
= $F_2 - 1$ (Fibonacci definition)
= $1 - 1$
= 0

Induction case: $g_h = g_{(h-1)} + g_{(h-2)} + 1$

IH: Assume $g_{(h-1)} = F_{(h-1+2)} - 1$

Assume $g_{(h-2)} = F_{(h-2+2)} - 1$

Done.