

$$H(z) = \frac{a_0 + a_1 z^{-1} + \dots + a_n z^{-n}}{1 + b_1 z^{-1} + \dots + b_m z^{-m}} = \frac{A(z)}{1 - B(z)}$$

FIR: $B(z) = 0$
IIR: $B(z) \neq 0$

