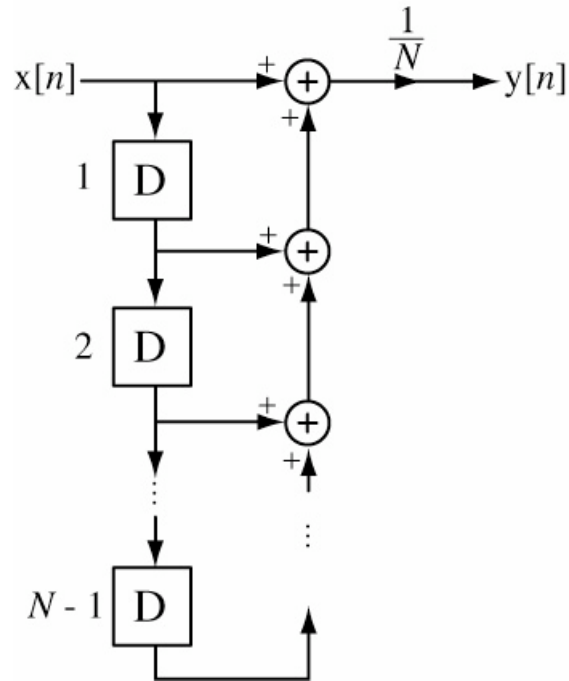


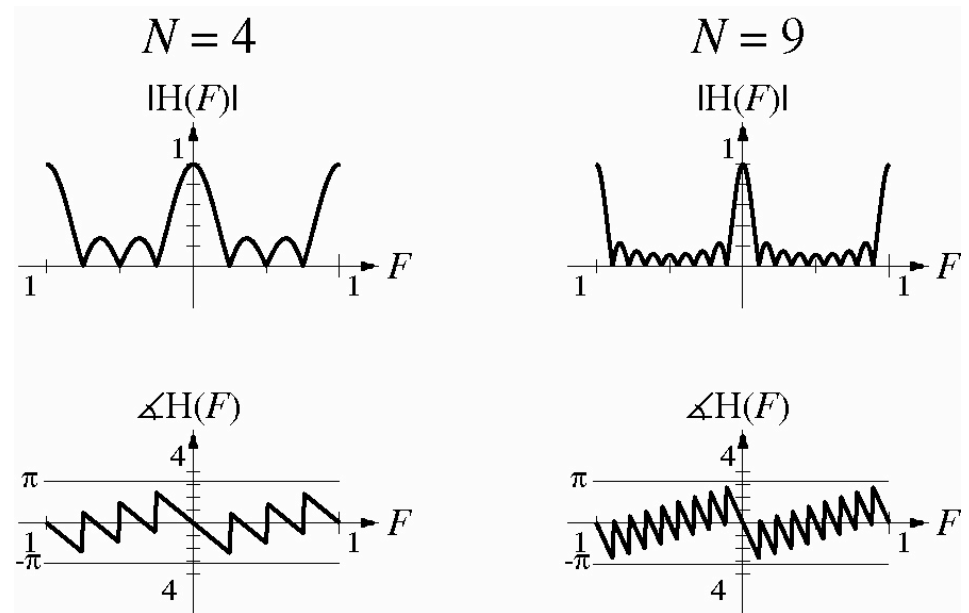
Discrete-Time Filters

Moving-Average Filter



$$H(F) = \frac{e^{-j\pi(N-1)F} \sin(\pi NF)}{N \sin(\pi F)} = e^{-j\pi(N-1)F} \text{drc1}(F, N)$$

$$h[n] = (u[n] - u[n - N]) / N$$



Always Stable