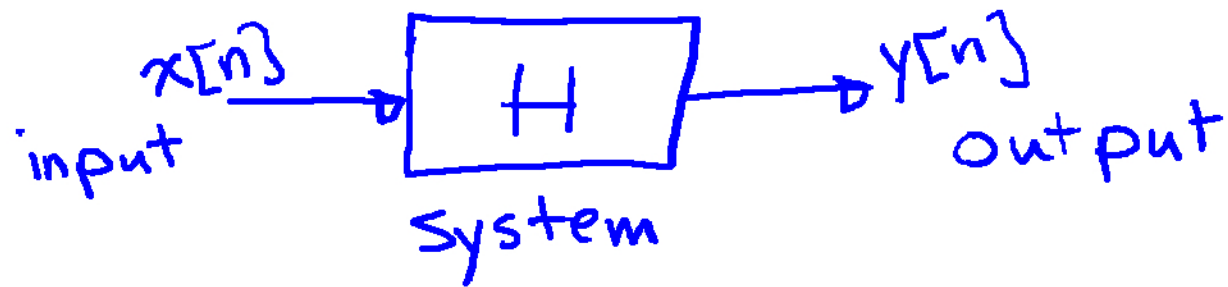


Basic DSP Framework



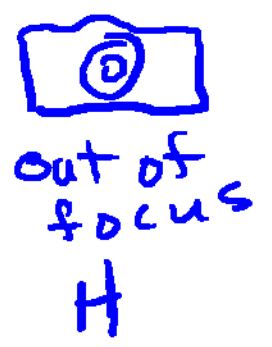
Ex: signal + noise \rightarrow filter \rightarrow clean signal

3 DSP Problems

- 1) Given $x[n]$, $y[n]$: Find H "System identification"
- 2) Given $x[n]$, H : Compute $y[n]$ "Filtering"
- 3) Given $y[n]$, H : Find $x[n]$ "Equalization"



Image Processing



Hubble telescope

model blurring as H

design H^{-1} to recover *
sharp image

Basic DSP System

