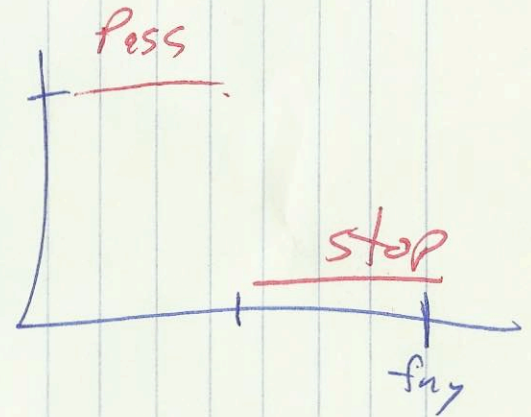


# Decimation

timeseries 200 s.p.s. } decimate by  $d=2$   
want 100 s.p.s.

1) FIR anti alias filter  
pass freq.  $< f_{ny}/d$   
stop freq.  $> f_{ny}/d$



2) keep 1 sample  
toss  $d-1$  samples  
repeat.

new timeseries will have  $N/2$  points  
 $N/d$  points