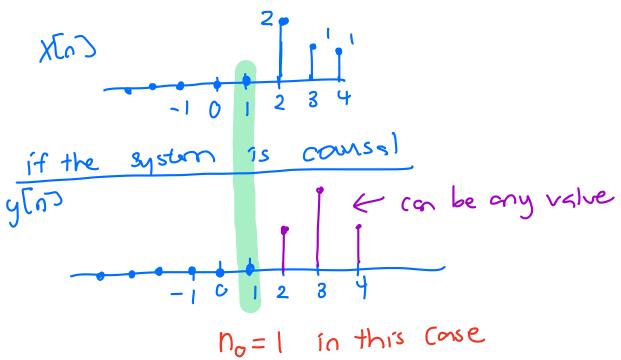
## Causal system definition

Output yend does not depend on fature input XEn)

ex y[3] can not depend on X[4]
y[-2] can not depend on X[-1]

## Definition in book is slightly different

A system is coused if  $\chi = 0$ , for  $n \leq n_0$ ( $\chi = 0$ ) is a right-sided sequence) results in an autput  $\chi = 0$ , for  $n \leq n_0$  ( $\chi = 0$ ) is also a right-sided sequence



if the system is not rowsyl

y(n)

For y(1) to be nonzero, it would

need to depend on nonzero

x(n) valves such as y(a), y(3)