R-S Latch

Some Observations:
S = 0, R = 0, Q_{OLD} = 0, Q_{NEW} = 0
S = 0, R = 0, Q_{OLD} = 1, Q_{NEW} = 1
Q_{OLD} stays the same

Do not allow for input R = 1, S = 1
Clock

Clock signal indicates when the latch should open, read the value of D, and store it.

D = data

C = 0 means “latch closed”

C = 1 means value of Q becomes value of D