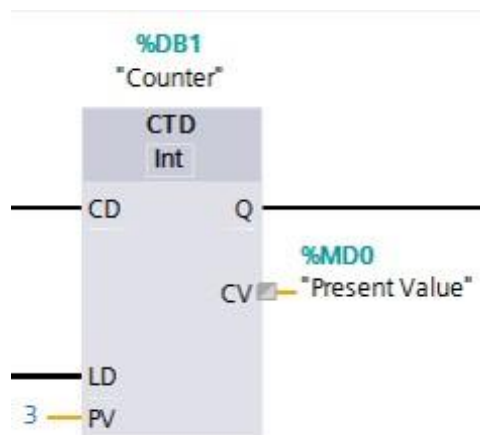


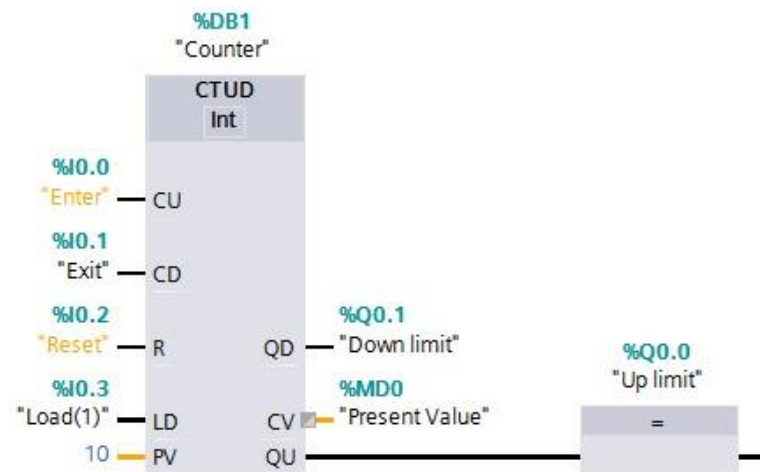
Quiz 6 – Understanding Counter Operations in TIA

- For which of the counter the following statement is TRUE?
 - Output "Q" = 1 if CV <= 0**
 - CTU
 - CTD**
- The number of counters that you can use in your user program is limited only by the amount of memory in the CPU.
 - True**
 - False
- Which counter we can use to count the batch of 10 bottles on a conveyor?
 - CTU
 - ^CTD
 - CTUD
 - All of the above**
- What is the function of "LD" in CTD - Counter Down?



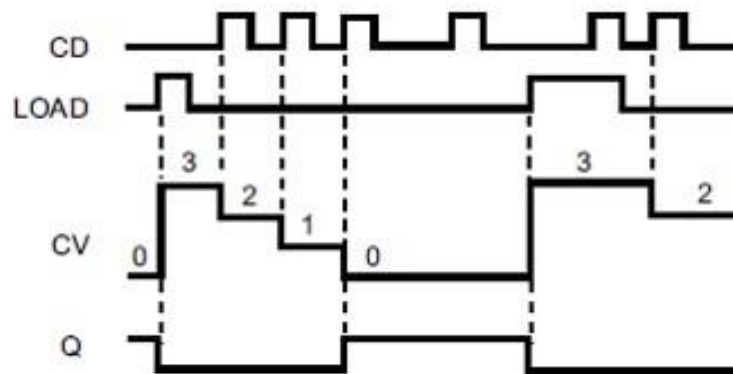
- To load PV to CV**
 - To load CV to PV
- In CTU, If the value of the reset parameter R changes from 0 to 1, then PV is reset to 0
 - TRUE
 - FALSE**

6. In the below counter, the **Q0.0** will be ON if:



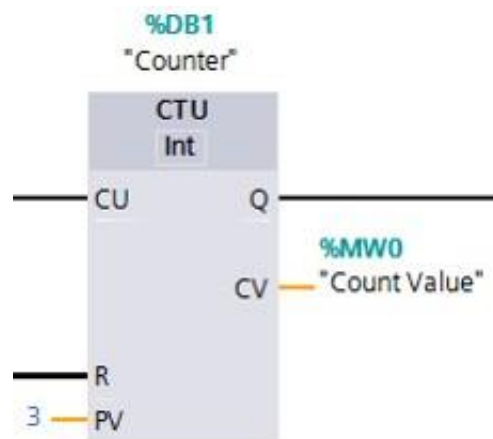
- **CV >= PV**
- **CV <= 0**
- Either A or B
- None of the above

7. The below count diagram represents which counter?



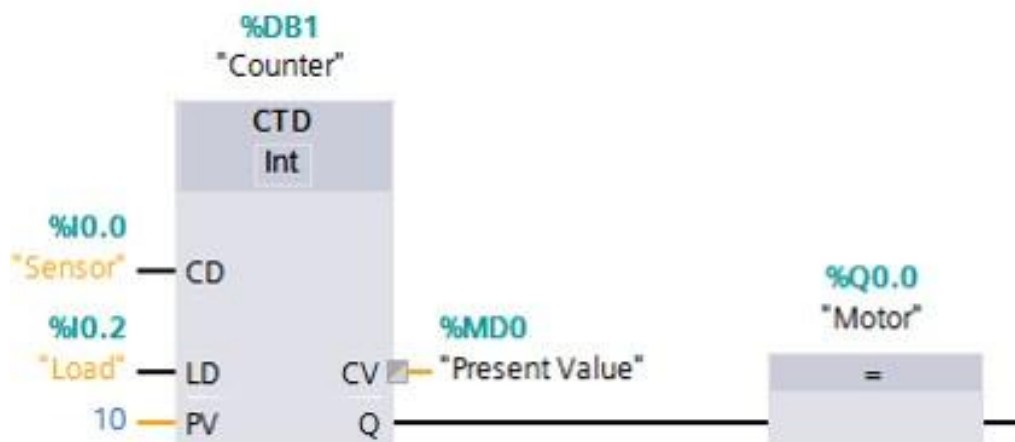
- CTU
- **CTD**
- CTUD

8. What will be the state of "Q" when $CV < PV$ (3)?



- 'Q' will be TRUE
- 'Q' will be FALSE

9. The **motor Q0.0** will be **ON** in which of the following case when the **value (10)** is loaded to CTD:



- When $CV \geq 10$
- **When $CV \leq 0$**
- When $CV = 10$

10. Will the counter counts if **R** is **"TRUE"** and it receives pulses at **CU**?

- Yes
- **No**

