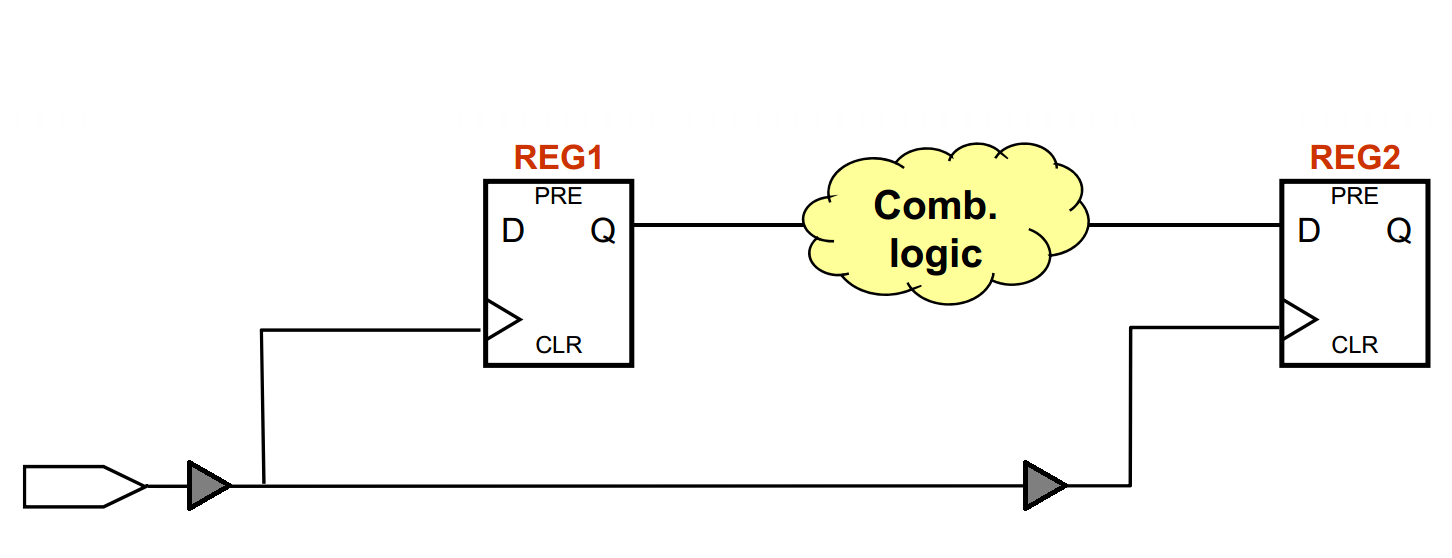
Consider the system below

Tdata,Min = 3 ns TSU = 2 ns  
 TCO = 2ns Tdata,Max = 5 ns TH = 1.5 ns

1 ns 1 ns

1. **Calculate the setup and hold slack if the clock runs at 100 MHz. Does the system meet timing requirements?**

Does meet timing requirements.

1. **Calculate the setup and hold slack if the clock runs at 150 MHz. Does the system meet timing requirements?**

Does not meet timing requirements.