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# Lab 01

# A screenshot of a computer Description automatically generated

Figure : Expected Results Table

A screenshot of a computer

Description automatically generated

Figure : Simulation Waveform

\*\*\*\*\*\*\* BEGIN TEST RESULTS \*\*\*\*\*\*\*

Test Case 1

Inputs: rst = 0 | d = 0

+++ Step 1: Pass: |q| time = 10 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 2

Inputs: rst = 0 | d = 527

+++ Step 1: Pass: |q| time = 20 ns | er = 527 | ar = 527 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 3

Inputs: rst = 0 | d = -8

+++ Step 1: Pass: |q| time = 30 ns | er = -8 | ar = -8 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 4

Inputs: rst = 0 | d = 3771334343958392850

+++ Step 1: Pass: |q| time = 40 ns | er = 3456789abcdef012 | ar = 3456789abcdef012 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 5

Inputs: rst = 0 | d = 77

+++ Step 1: Pass: |q| time = 50 ns | er = 77 | ar = 77 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 6

Inputs: rst = 0 | d = 4

+++ Step 1: Pass: |q| time = 52 ns | er = 77 | ar = 77 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 7

Inputs: rst = 0 | d = 18

+++ Step 1: Pass: |q| time = 60 ns | er = 18 | ar = 18 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 8

Inputs: rst = 1 | d = 18

+++ Step 1: Pass: |q| time = 64 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 9

Inputs: rst = 0 | d = 981

+++ Step 1: Pass: |q| time = 74 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 10

Inputs: rst = 0 | d = 981

+++ Step 1: Pass: |q| time = 79 ns | er = 981 | ar = 981 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 11

Inputs: rst = 1 | d = 981

+++ Step 1: Pass: |q| time = 85 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 12

Inputs: rst = 1 | d = 345

+++ Step 1: Pass: |q| time = 87 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 13

Inputs: rst = 0 | d = 345

+++ Step 1: Pass: |q| time = 90 ns | er = 0 | ar = 0 | er\_bits = 64 | ar\_bits = 64 +++

Test Case 14

Inputs: rst = 0 | d = 345

+++ Step 1: Pass: |q| time = 100 ns | er = 345 | ar = 345 | er\_bits = 64 | ar\_bits = 64 +++

Pass Count = 14

Fail Count = 0

\*\*\*\*\*\*\* END TEST RESULTS \*\*\*\*\*\*\*

A graph with lines and numbers

Description automatically generated

Figure : Worked-Out Waveform ( just in case ;) )