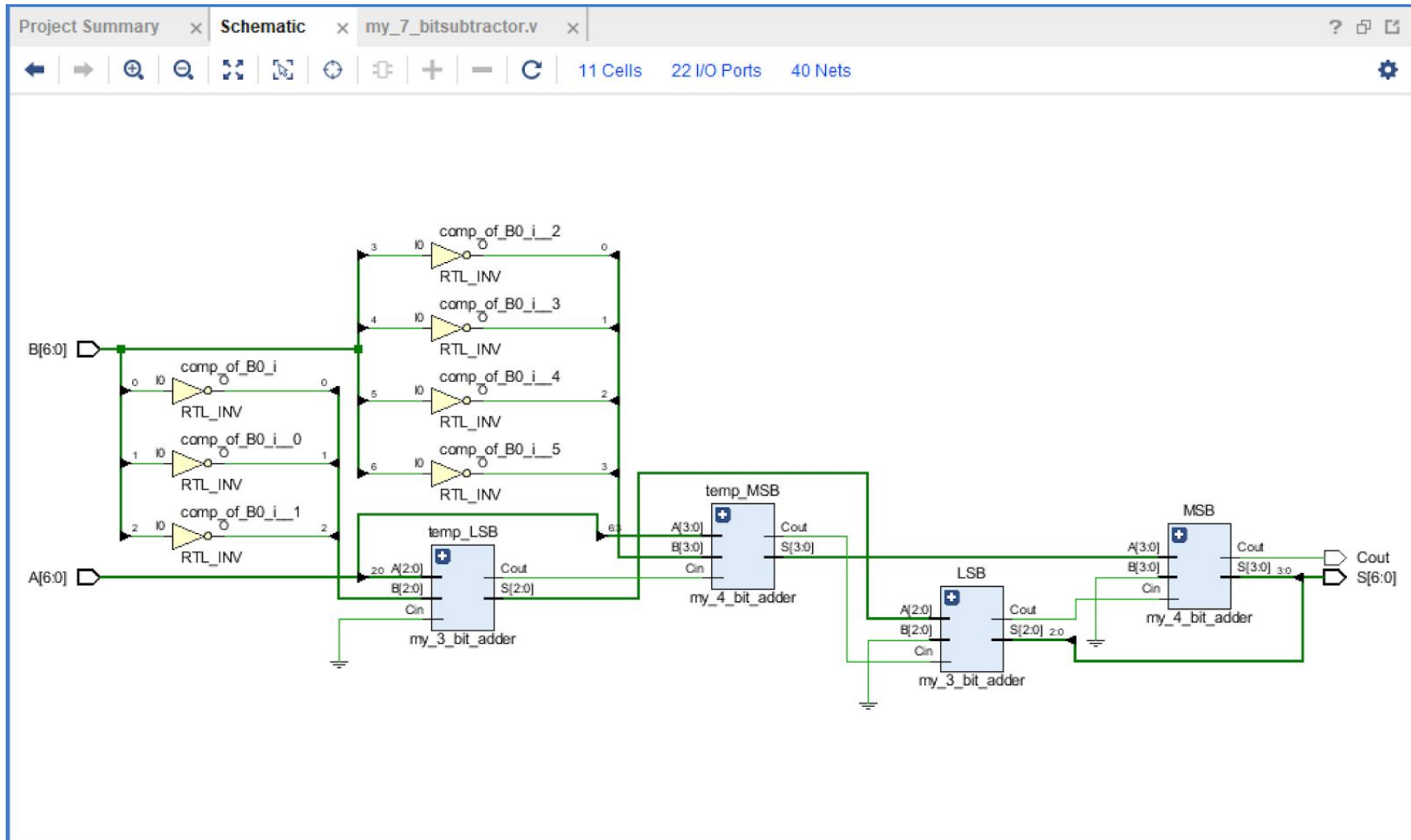**Name: Tra Quang MInh Thong**
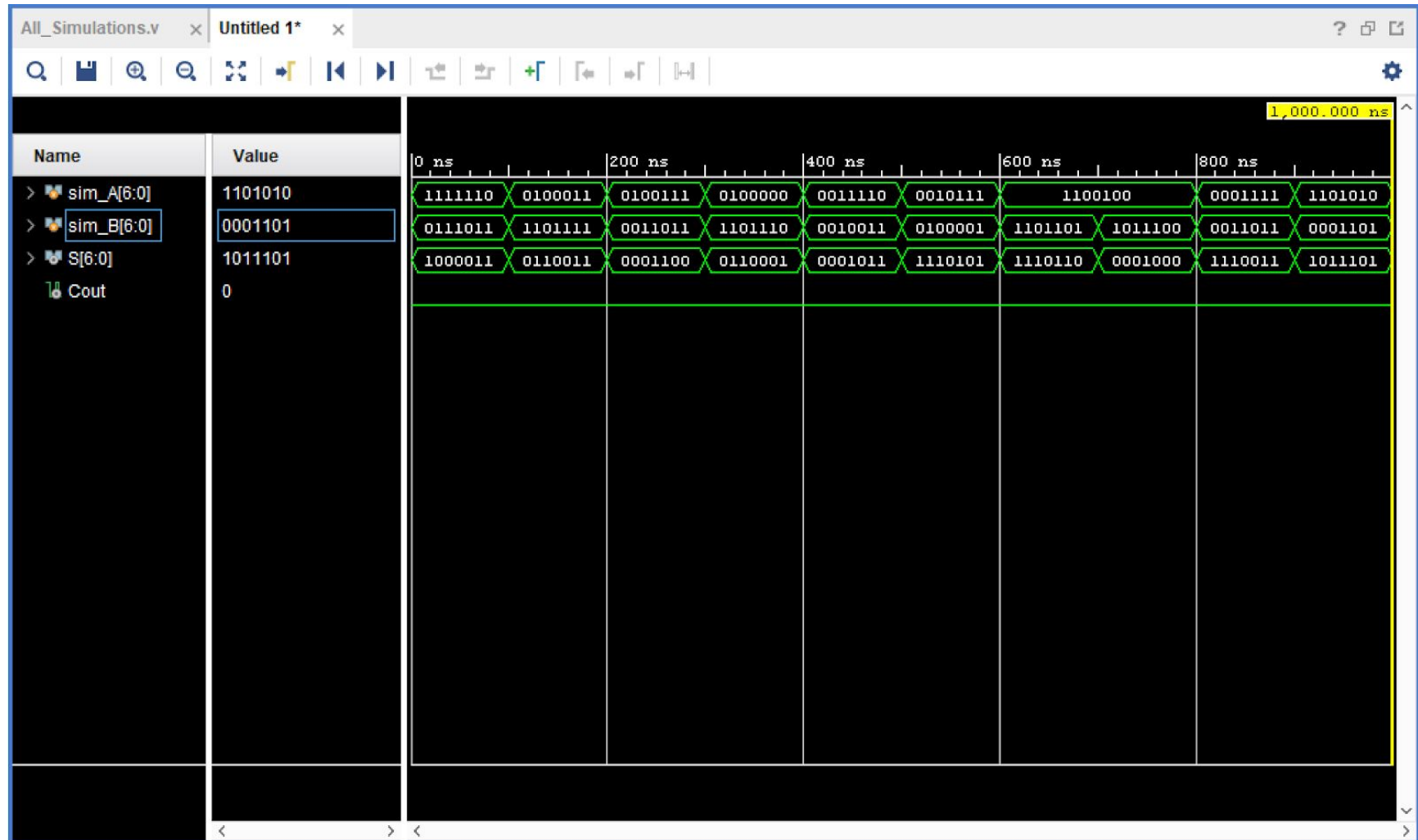**Lab group: LAB05 (Monday_PM)**
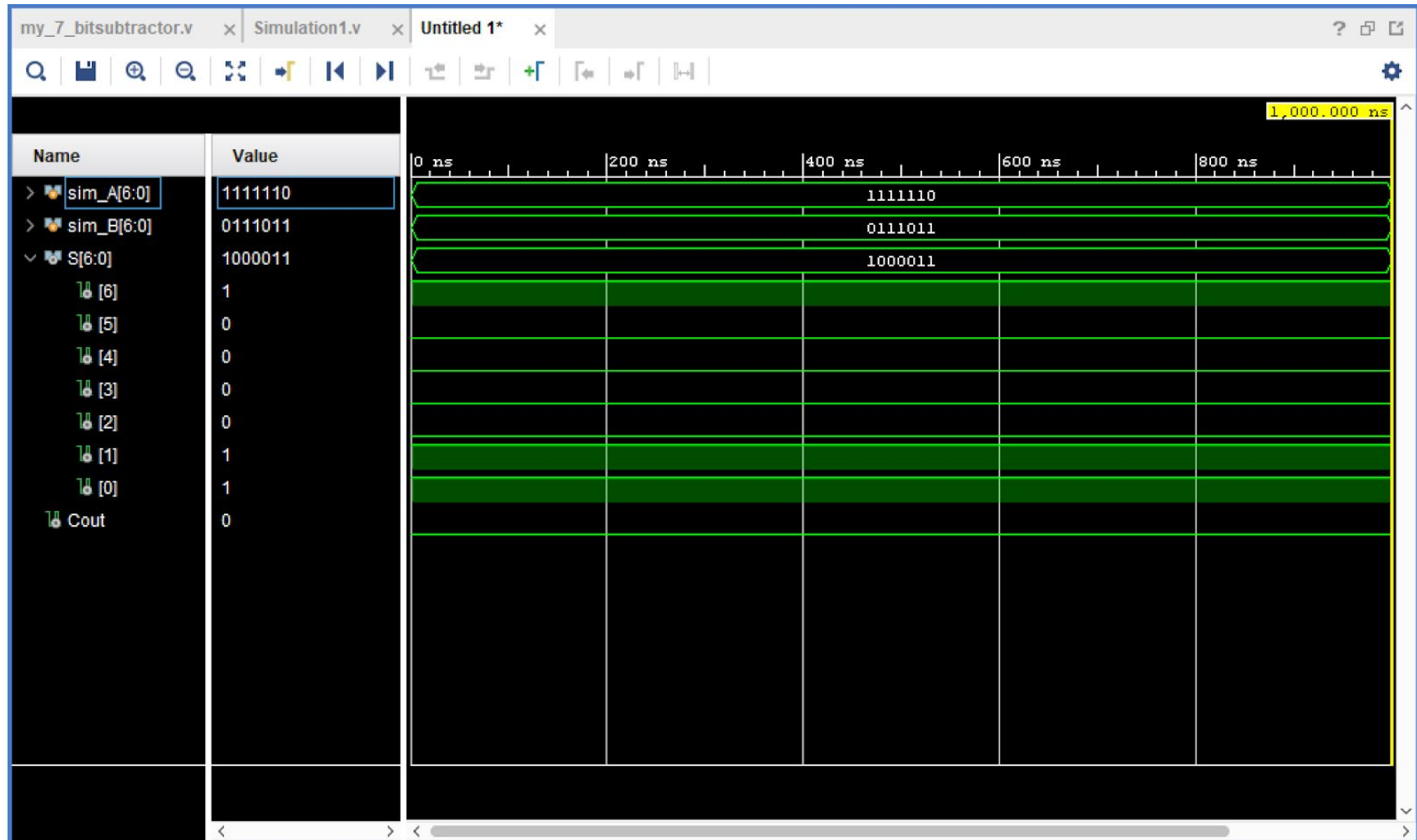**Student ID: A0200659H**
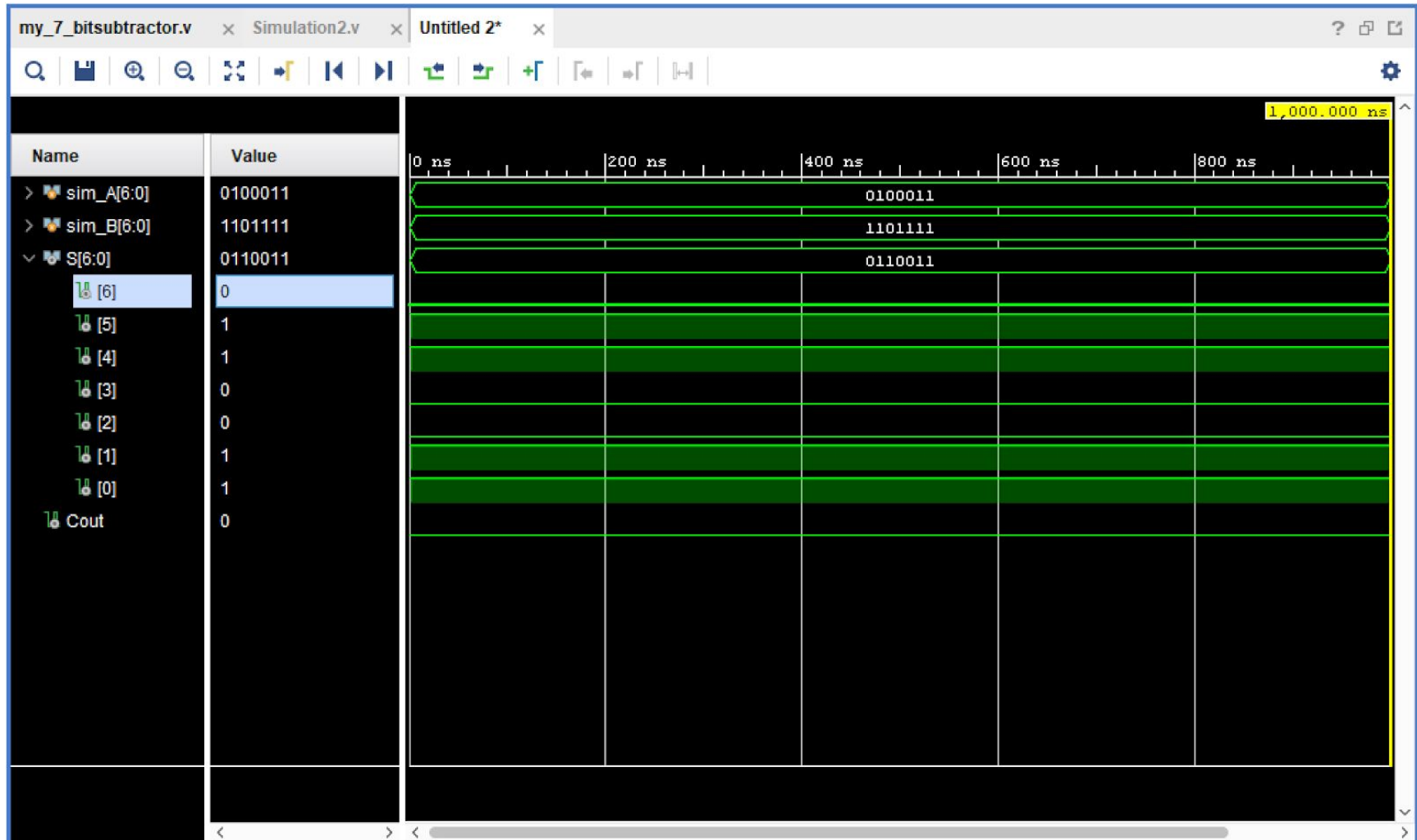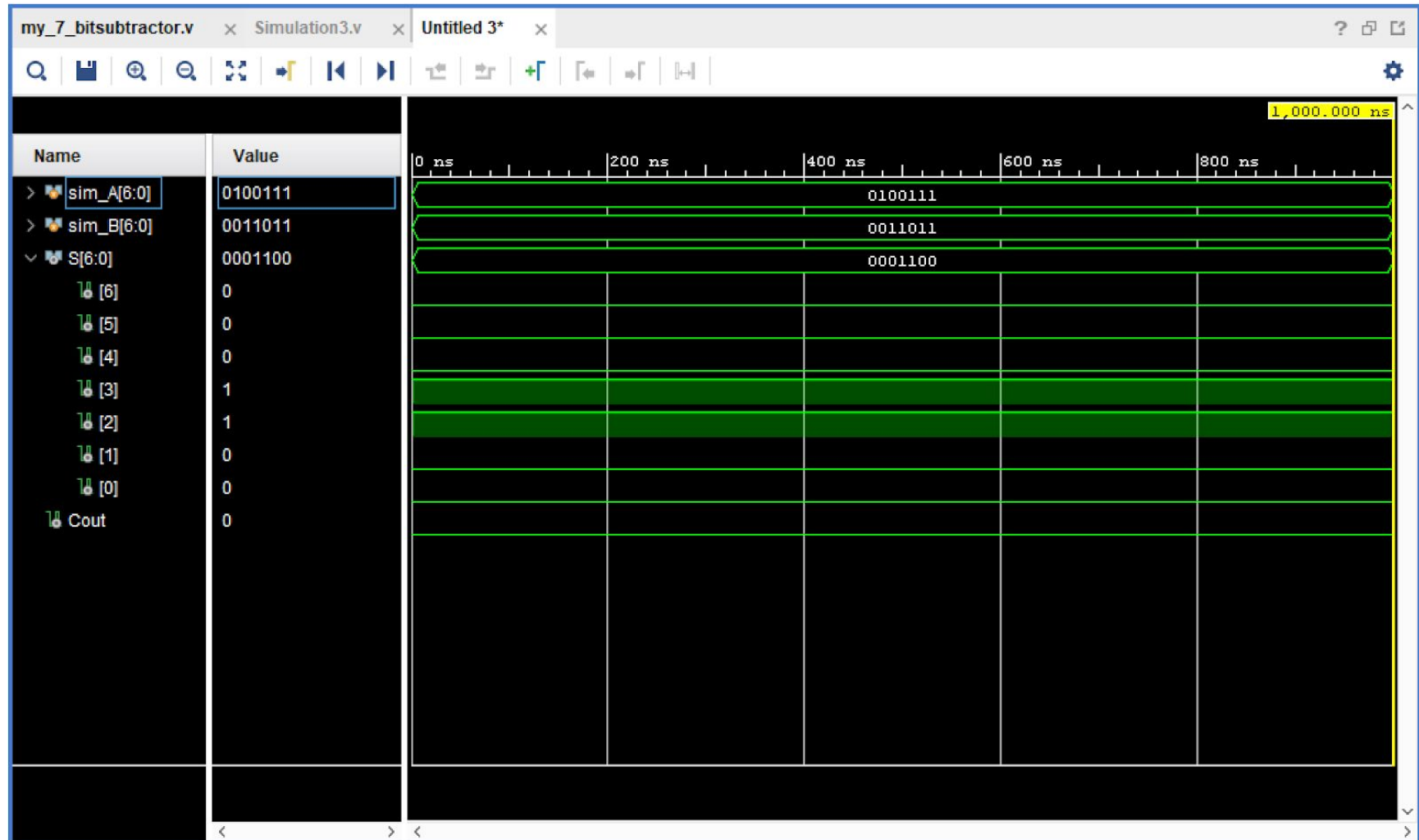**Screenshot of the RTL analysis schematic:**

All simulations:
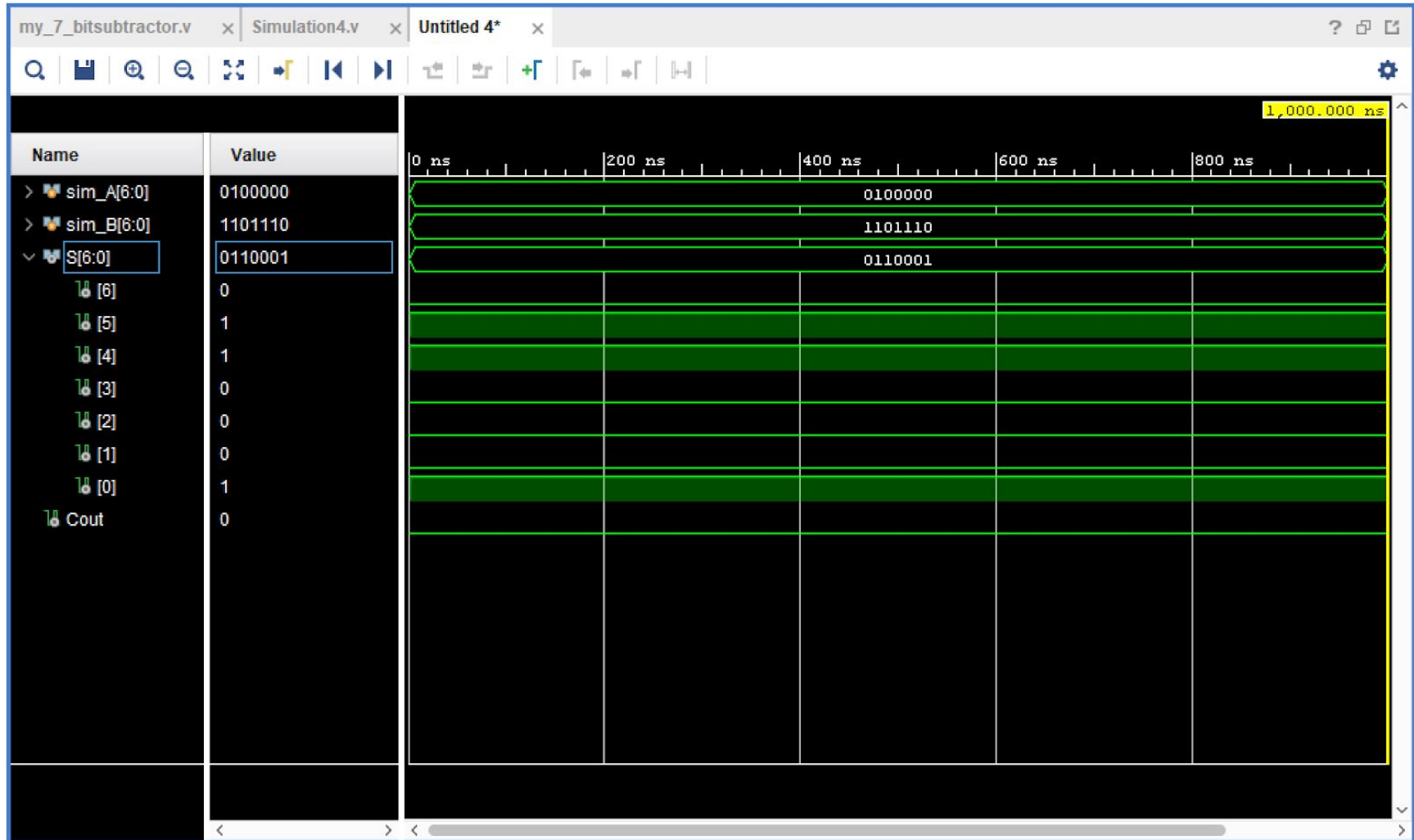
Simulation 1: (-1)-(59)=-60

Simulation 2: (35)-(-16)=51

Simulation 3: 39-27=12

Name	Value
sim_A[6:0]	0100111
sim_B[6:0]	0011011
S[6:0]	0001100
[6]	0
[5]	0
[4]	0
[3]	1
[2]	1
[1]	0
[0]	0
Cout	0

Waveform values:
- sim_A[6:0]: 0100111
- sim_B[6:0]: 0011011
- S[6:0]: 0001100

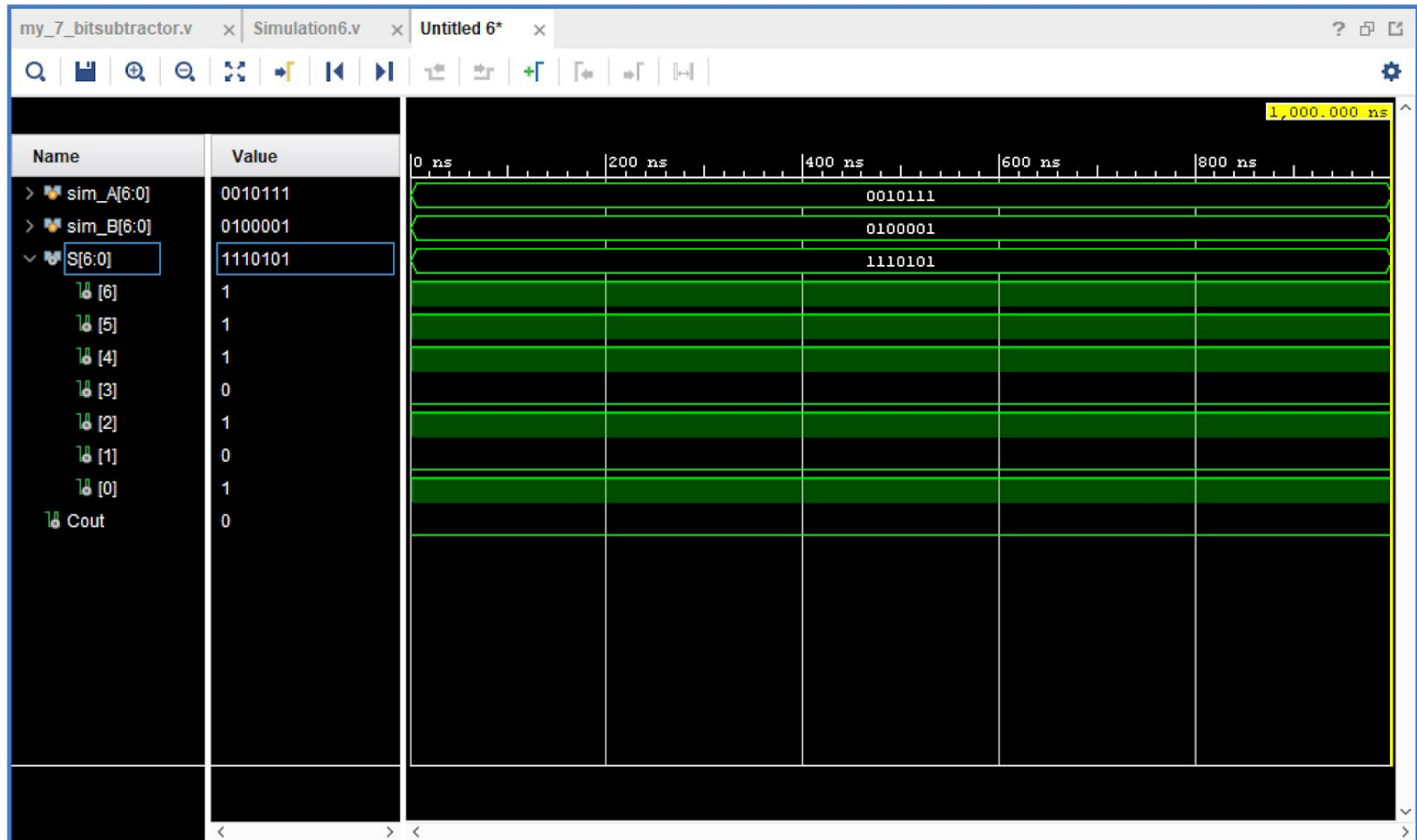## Simulation 4: (32)-(-17)=49

Simulation 5: (30)-(19)=11

Simulation 6: 23-33=-10

Name	Value	0 ns	200 ns	400 ns	600 ns	800 ns
sim_A[6:0]	0010111			0010111		
sim_B[6:0]	0100001			0100001		
S[6:0]	1110101			1110101		
[6]	1					
[5]	1					
[4]	1					
[3]	0					
[2]	1					
[1]	0					
[0]	1					
Cout	0					

1,000.000 ns
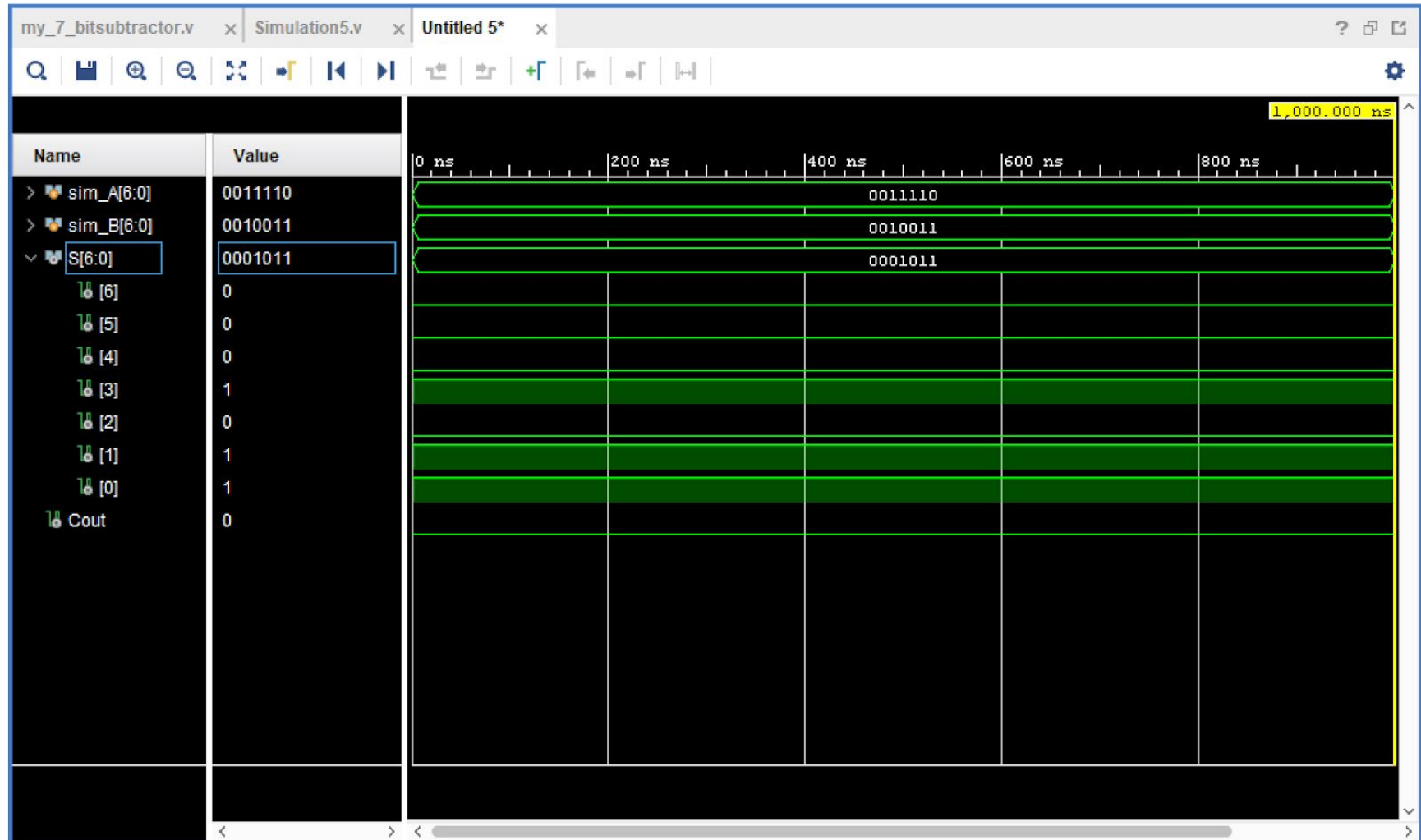
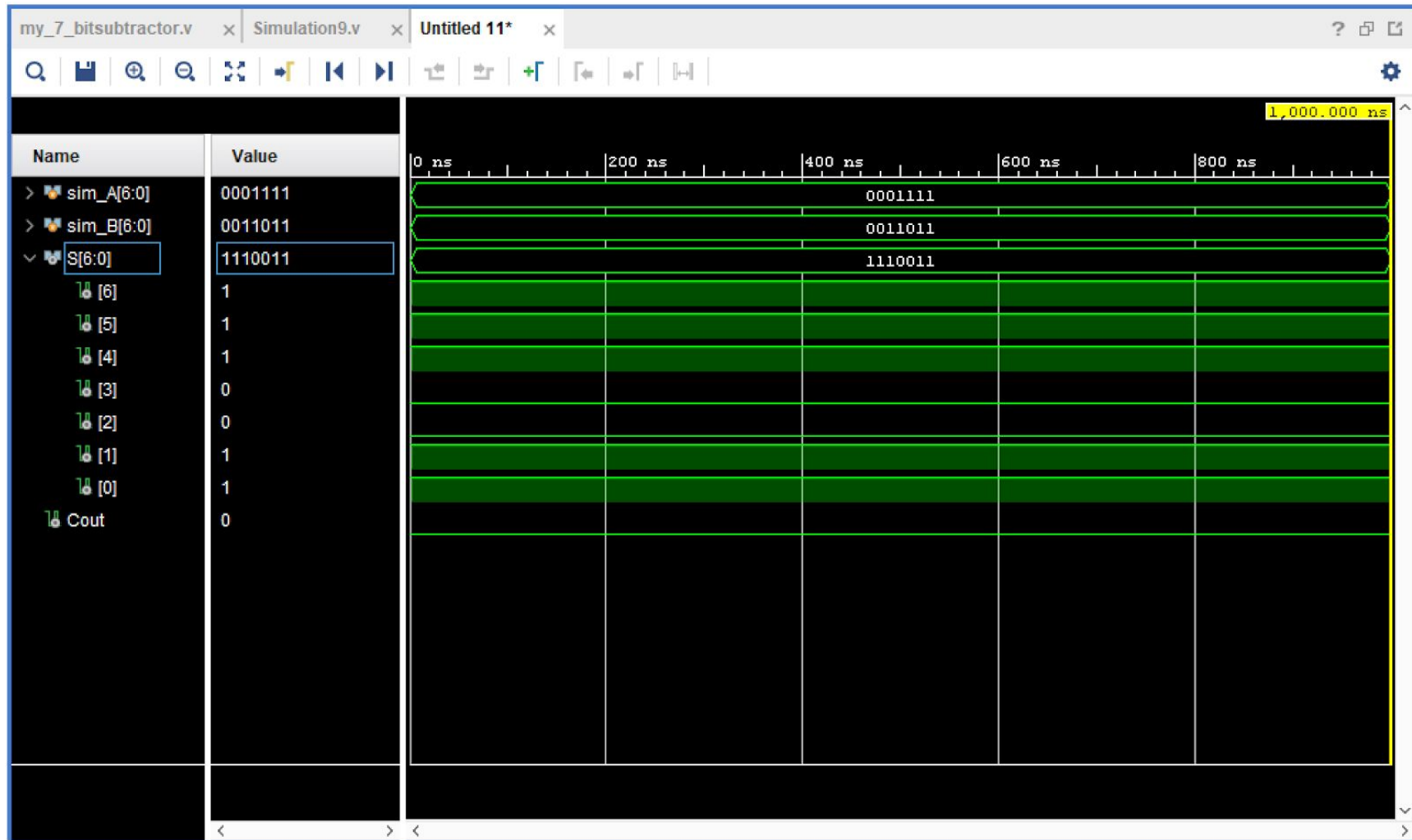**Simulation 7: (-27)-(-18)=-9**
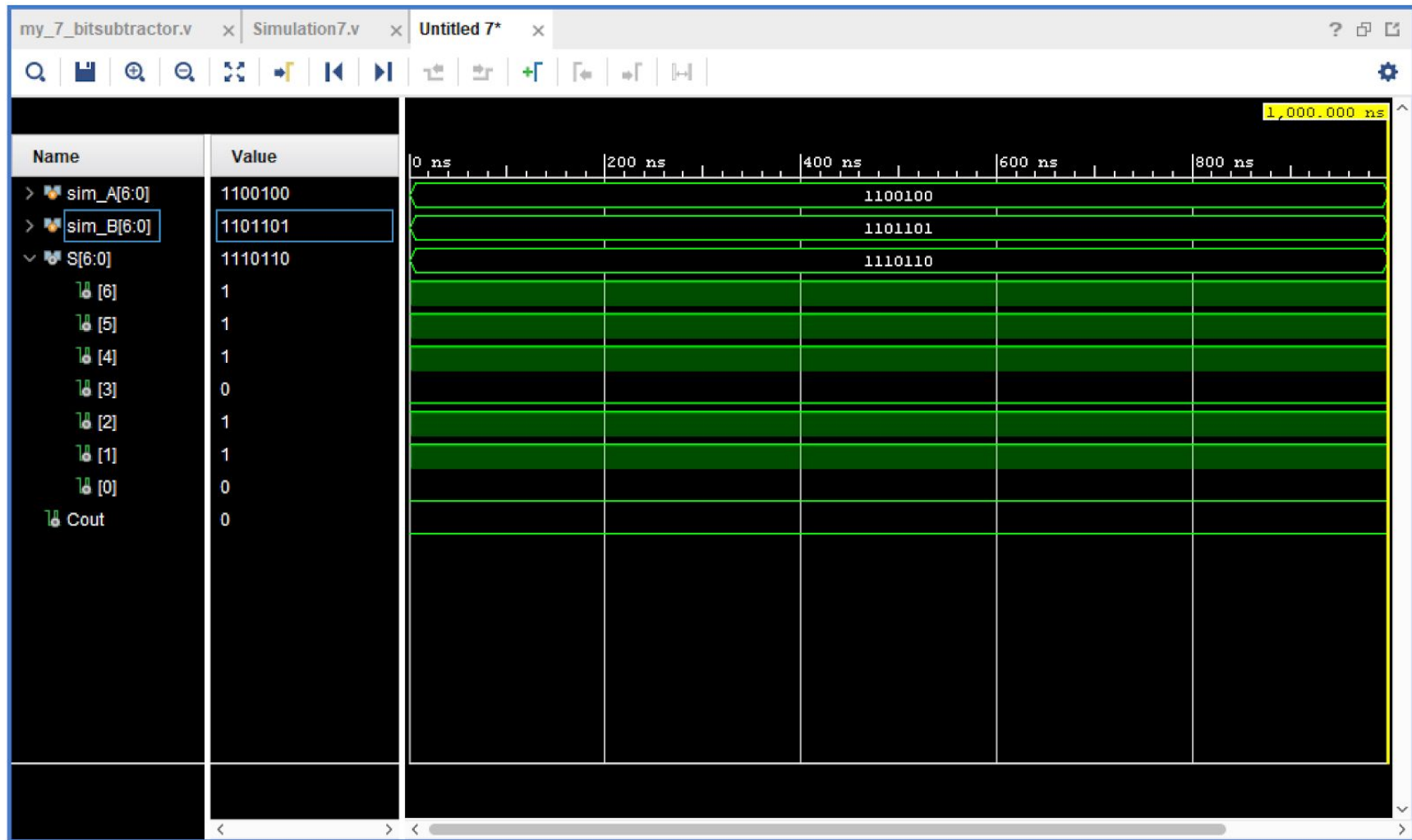
Simulation 8: (-27)-(-35)=8
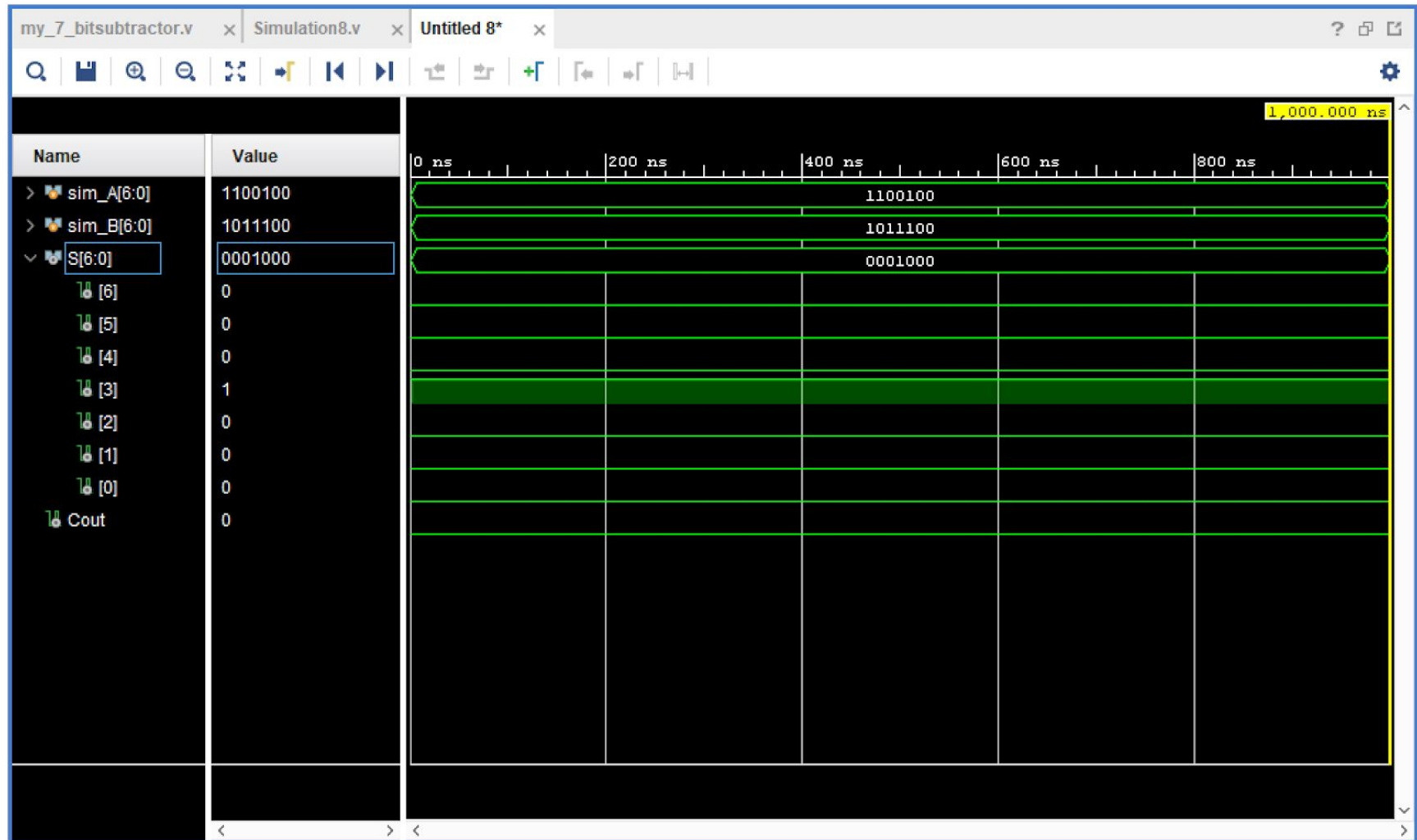
Simulation 9: (15)-(27)=-12

Simulation 10: (-21)-(13)=-34