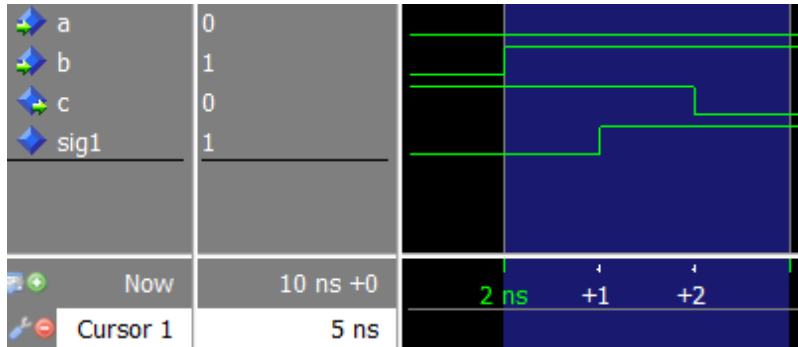
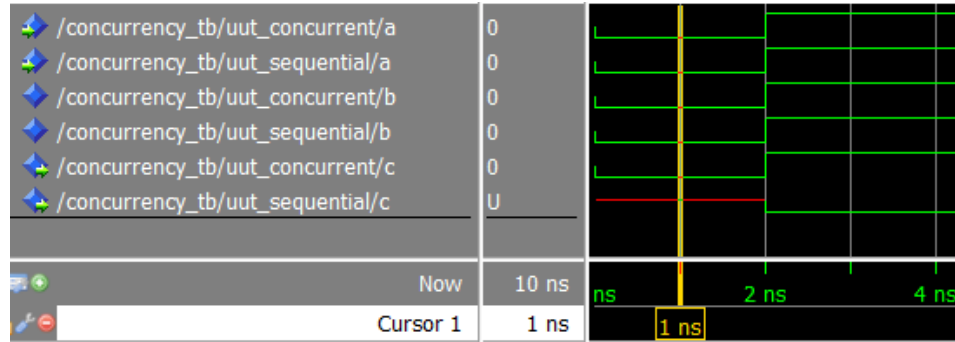


Question #1] Pull down the prop\_delay.zip folder and simulate it with Modelsim. Include a similar waveform screenshot in your report and explain why each and every signal transition happens between 2 and 3 ns. [2 pts]



Question #2] Pull down the concurrency.zip folder and simulate it with Modelsim. Include a similar waveform screenshot in your report and explain: [4 pts]

- Why is 'sequential c' initially undefined while 'concurrent c' has a starting value of 0 as in the image below.
- Why are the final values of 'sequential c' and 'concurrent c' different?



Question #3] Pull down the sensitivity.zip folder and simulate it with Modelsim. Run the program as is, and save a waveform shot. Then run the program with 'b' added to the sensitivity list shown below and save that waveform. Include both waveforms and explain why they are different. [4 pts]

```
begin
process(s,a)
begin
if (s = '1') then
c <= a;
else
c <= b;
end if;
end process;
end beh;
```