

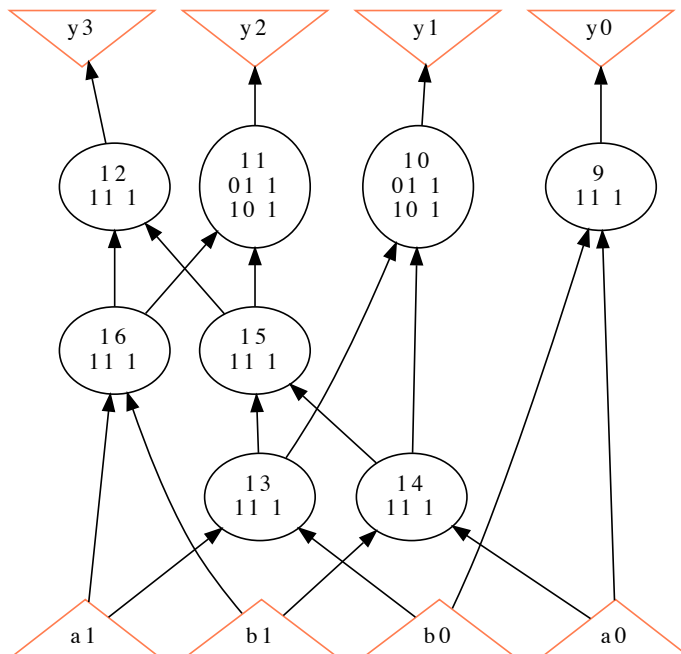
Programming Assignment 1

R12943161 陳思頤

2.(b)

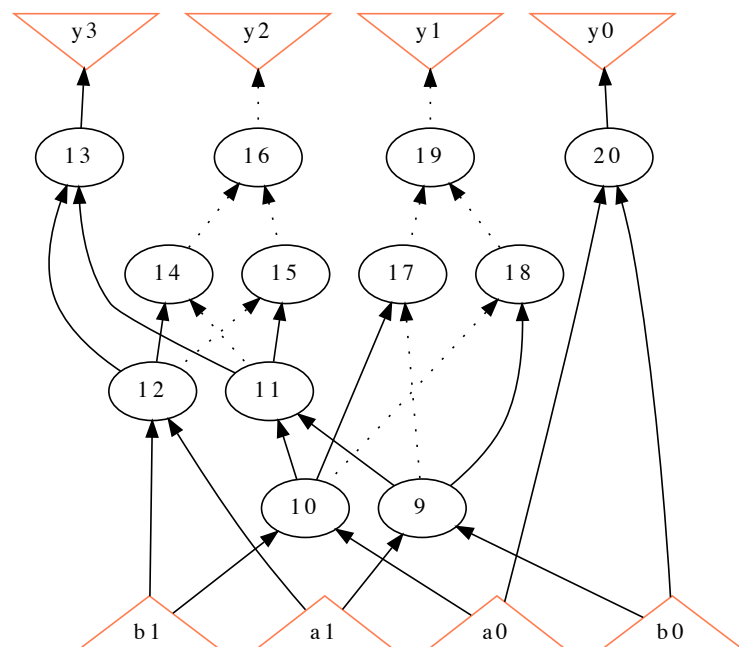
Network Structure

The network contains 8 logic nodes and 0 latches.

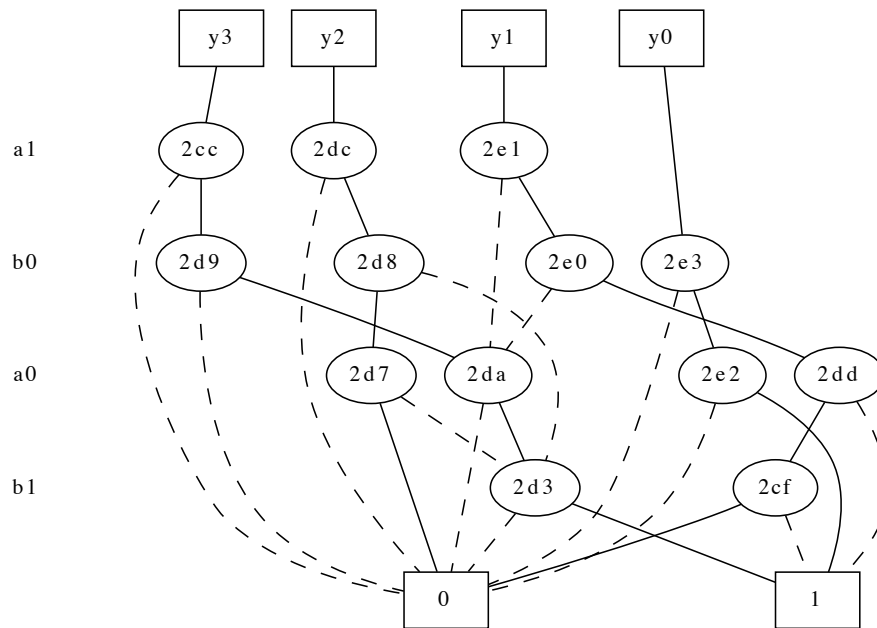


AIG

The network contains 12 logic nodes and 0 latches.



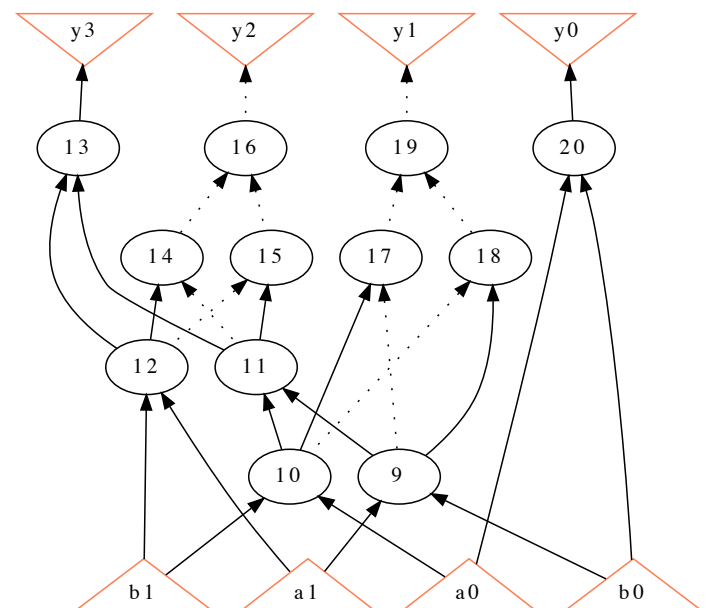
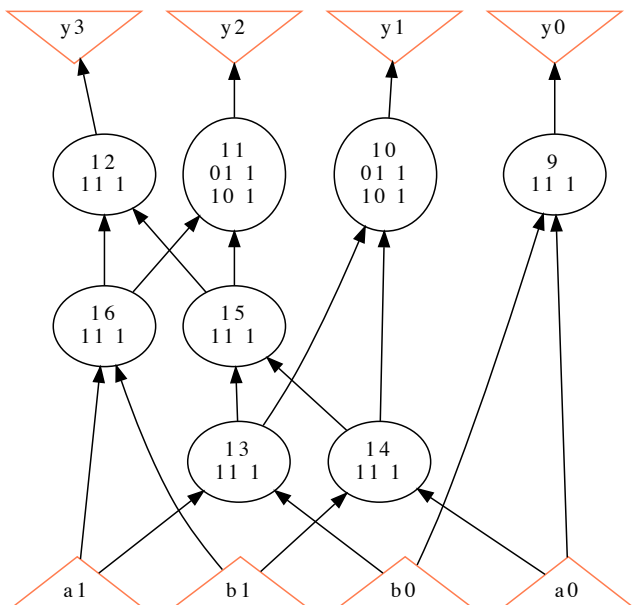
BDD



3.(a)

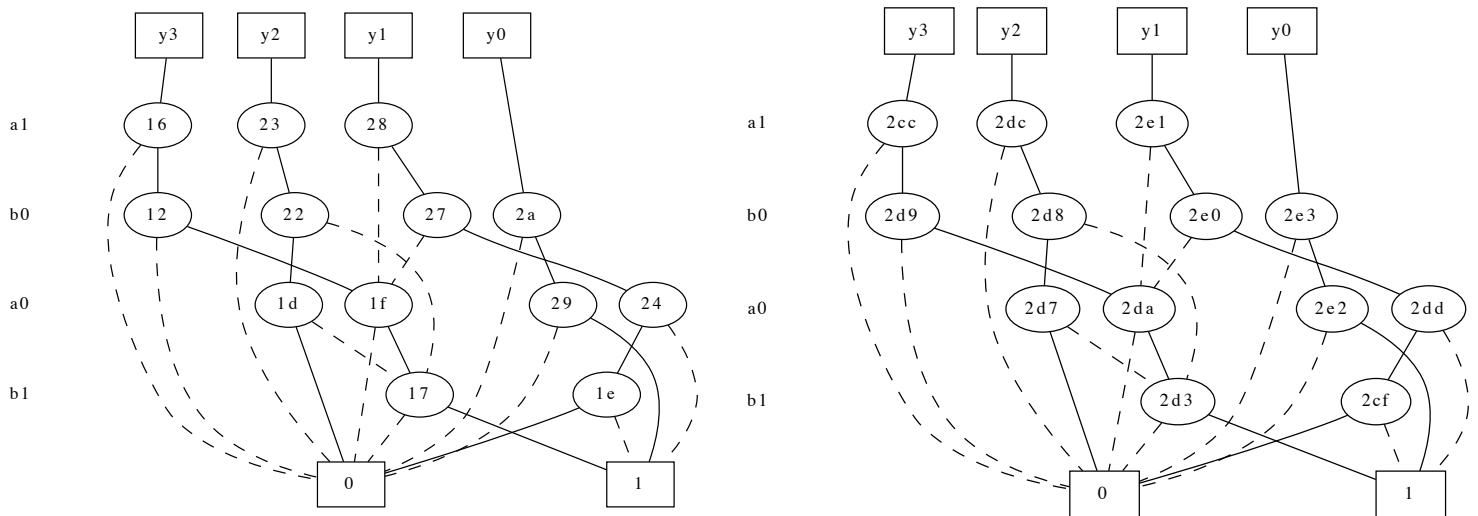
Logic network in AIG vs. Structurally hashed AIG

The network contains 8 logic nodes and 0 latches. The network contains 12 logic nodes and 0 latches.



Logic network in AIG is the same with Network Structure.

Logic network in BDD vs. Collapsed BDD



Logic network in BDD is the same with Collapsed BDD.

Convert AIG to SOP by using command **logic** and command **sop**.

The network contains 12 logic nodes and 0 latches.

