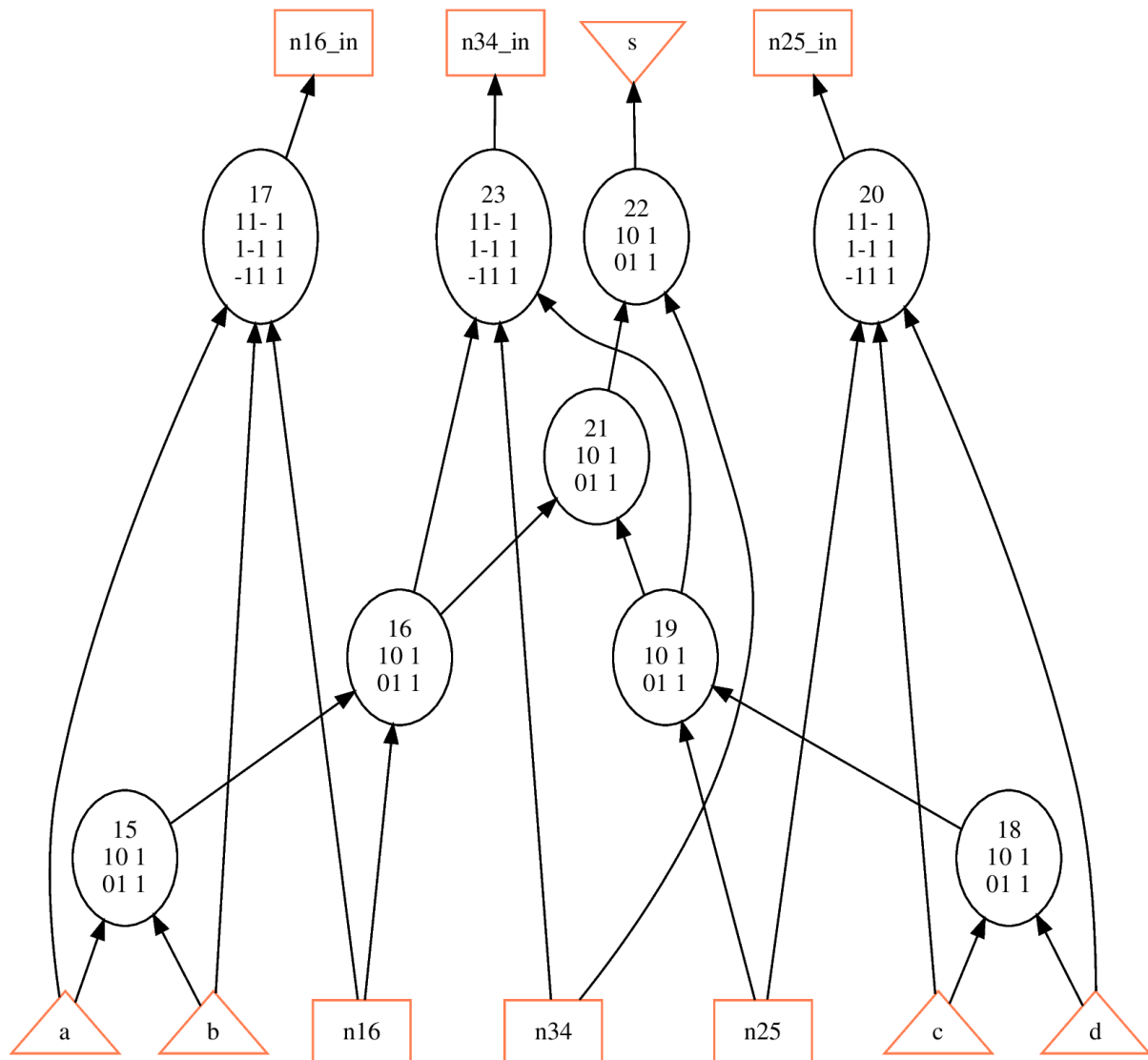


Step3:

Network structure visualized by ABC
Benchmark "4numbersserialadder". Time was Fri Oct 8 00:25:52 2021.

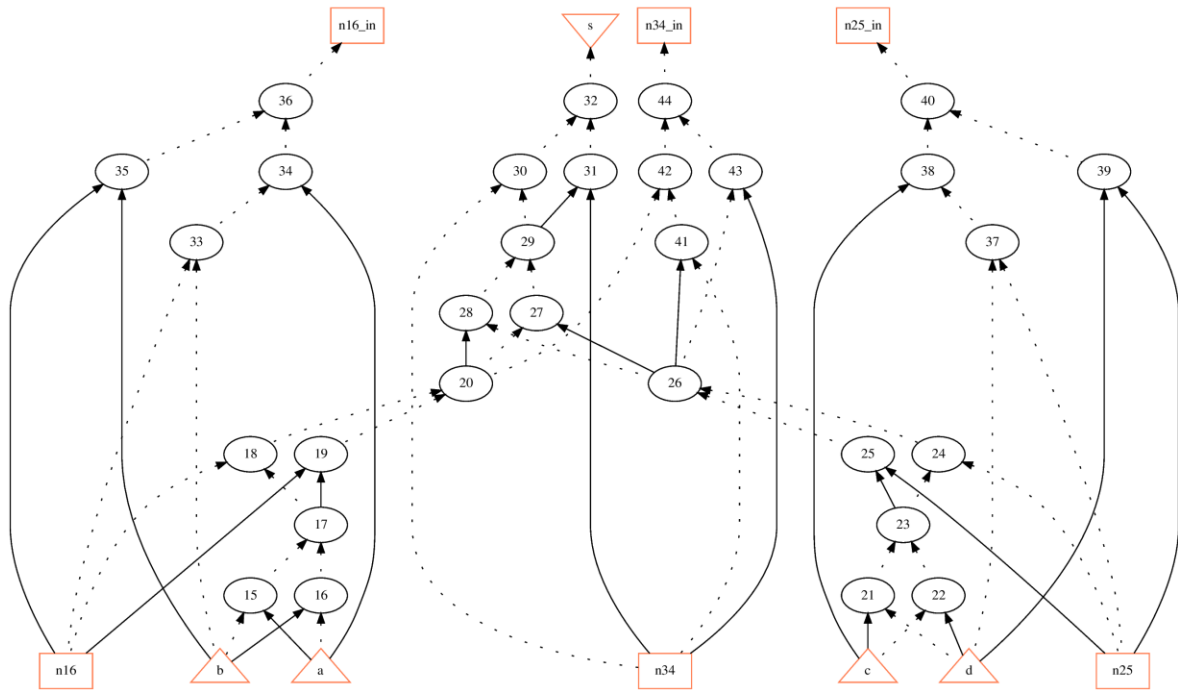
The network contains 9 logic nodes and 3 latches.



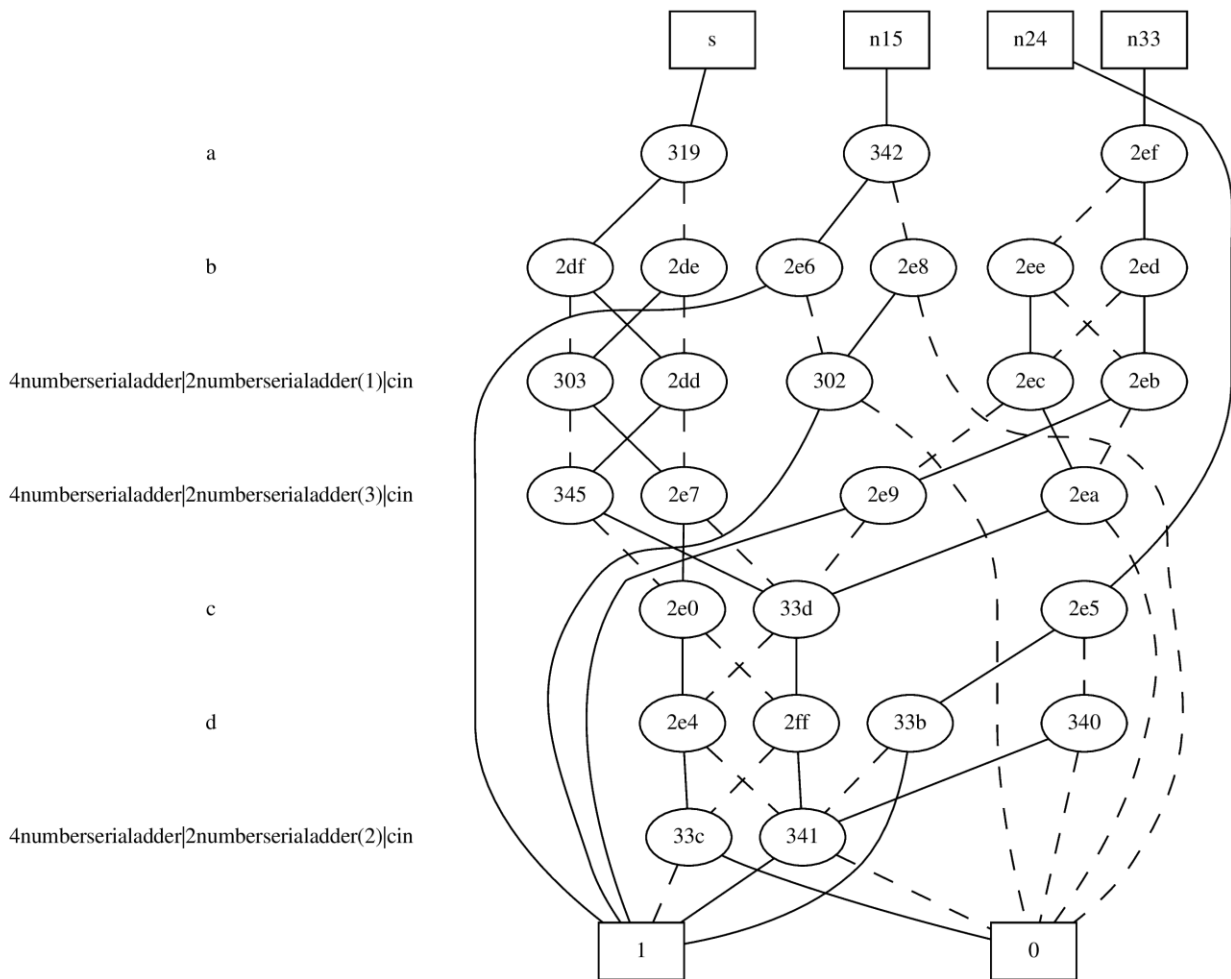
Step5:

Network structure visualized by ABC
Benchmark "4numberserialadder". Time was Fri Oct 8 00:26:54 2021.

The network contains 30 logic nodes and 3 latches.



Step7:



Part2.

(a)

1. "aig" just convert the network into AIG form simply, but "strash" will convert the network into AIG form by one-level structural hashing which may reduce some redundant gates.
2. "bdd" just convert the local function into BDD form, but "collapse" will convert the network into BDD form by building global functions.

(b) logic