Problem 2(b)

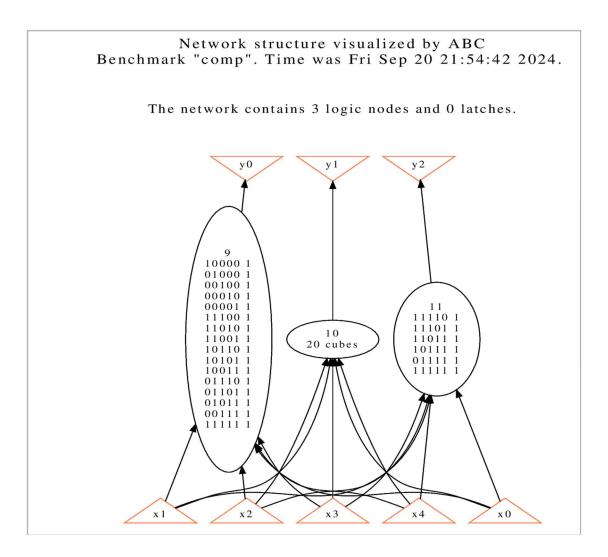
1.

```
abc 01> read ./lsv/pa1/comp.blif abc 02> ■
```

2.

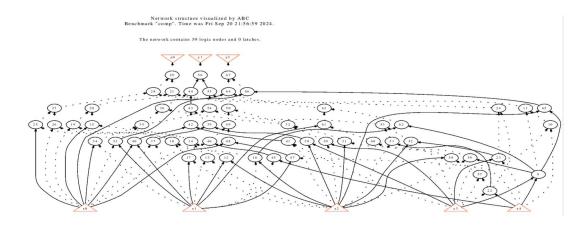


3.



abc 02> strash abc 03> ■

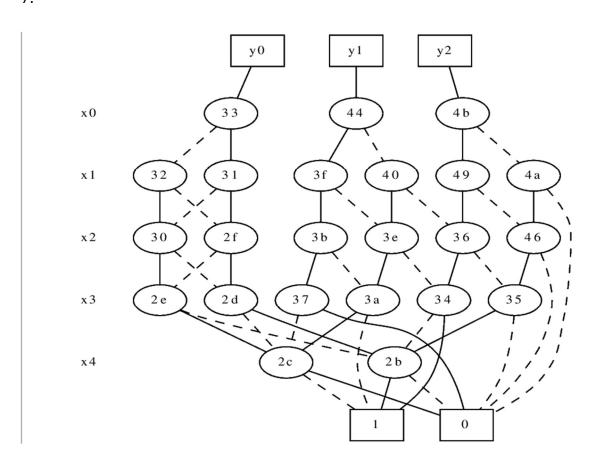
5.



6.

abc 03> collapse abc 04> ■

7.



Problem 3(a)

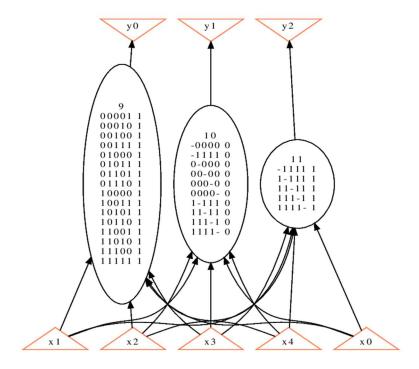
1.

In command 'aig',



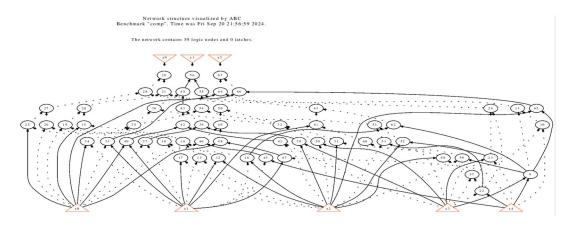
Network structure visualized by ABC Benchmark "comp". Time was Fri Sep 20 22:00:30 2024.

The network contains 3 logic nodes and 0 latches.



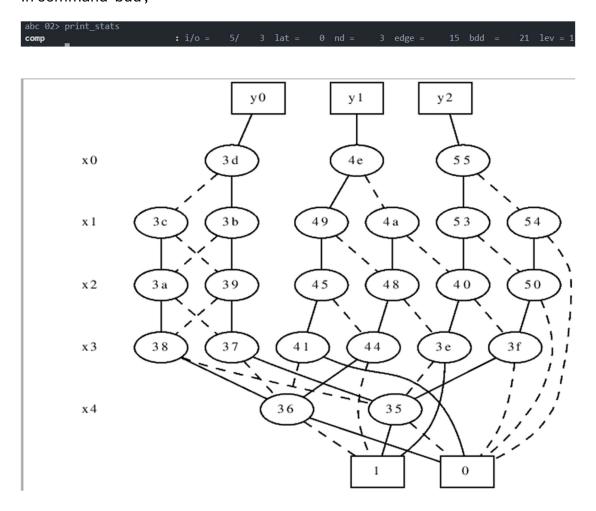
In command strash,





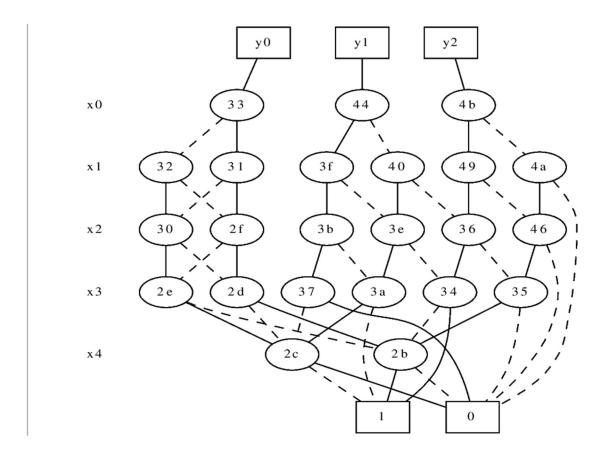
As shown in the above figures, the command 'aig' contains 65 aig components and only 1 level. At the contrast, the command 'strash' contains 59 and components and up to 8 levels. To sum up, the latter produces a more concise structure than the former at the expense of the level of the network is highly increased.

2. In command 'bdd',



In command 'collapse',





The two command seem to produce the same outcomes.

Problem 3(b)

```
abc 01> read ./lsv/pa1/comp.blif
abc 02> strash
abc 03> logic
abc 04> show
```

There is no difference if we continue to enter the command 'sop'.

