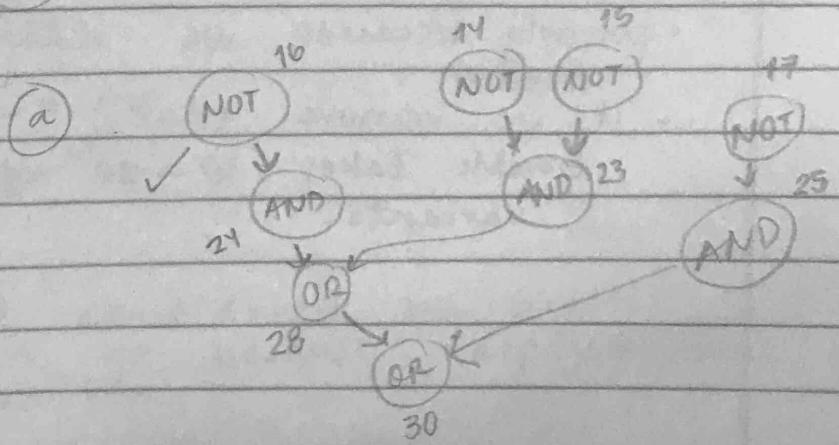
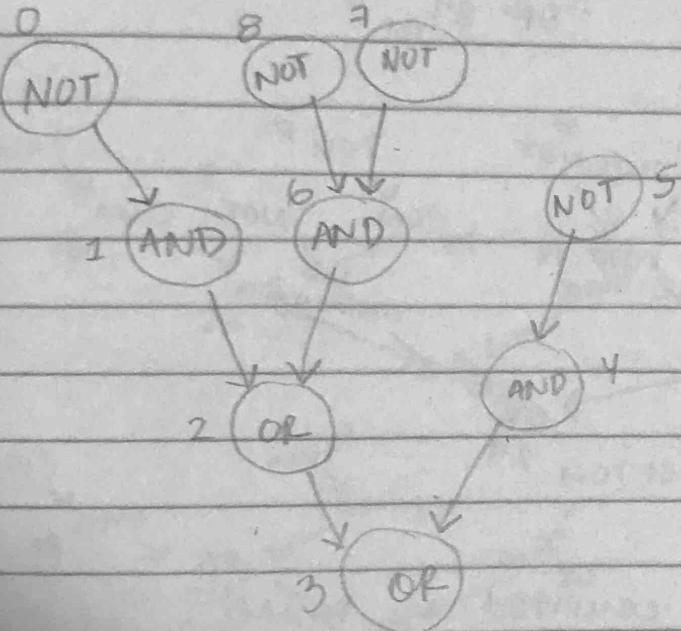


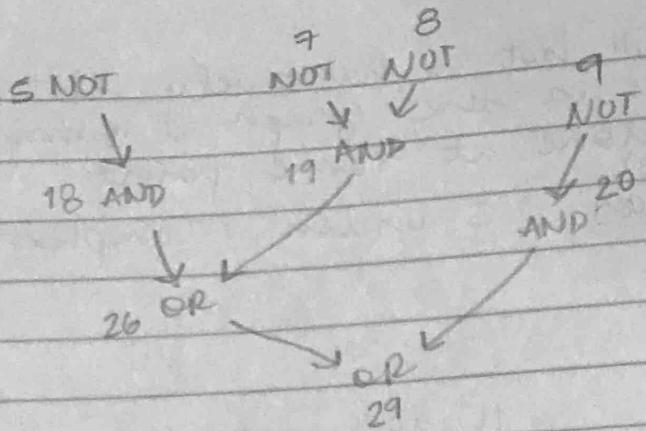
(2) Test with

Test S. e.g.

GENERAL STRUCTURE



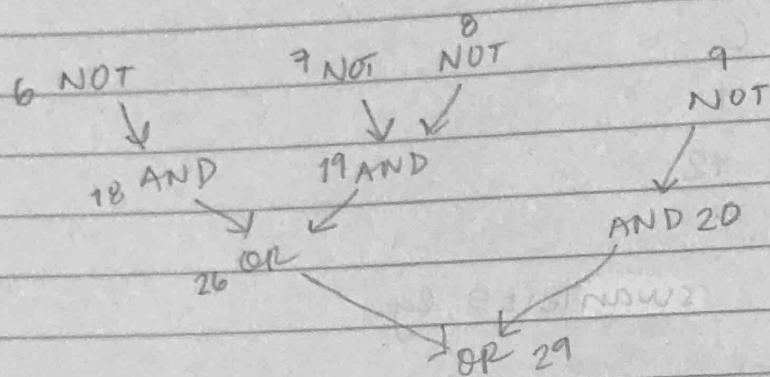
(b)



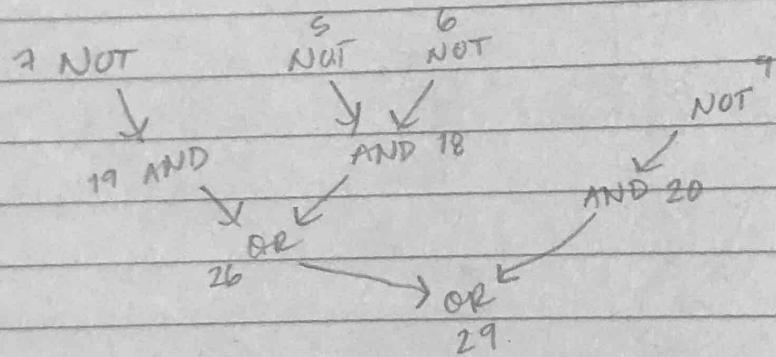
variants

b, c, d

(c)



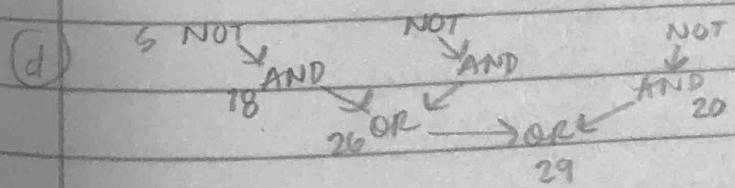
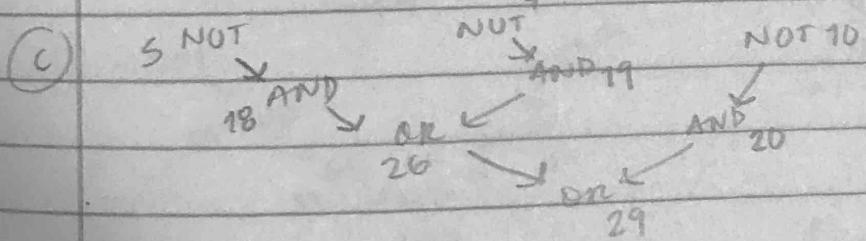
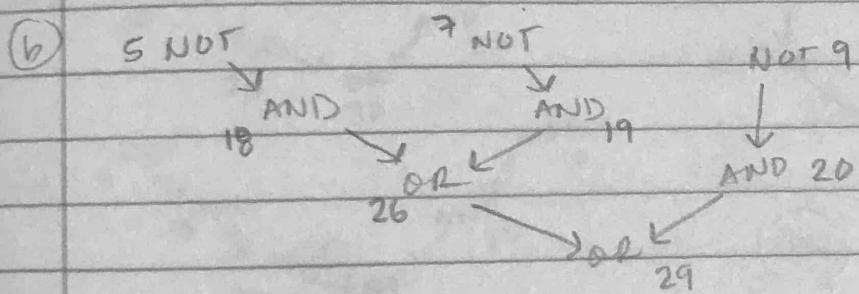
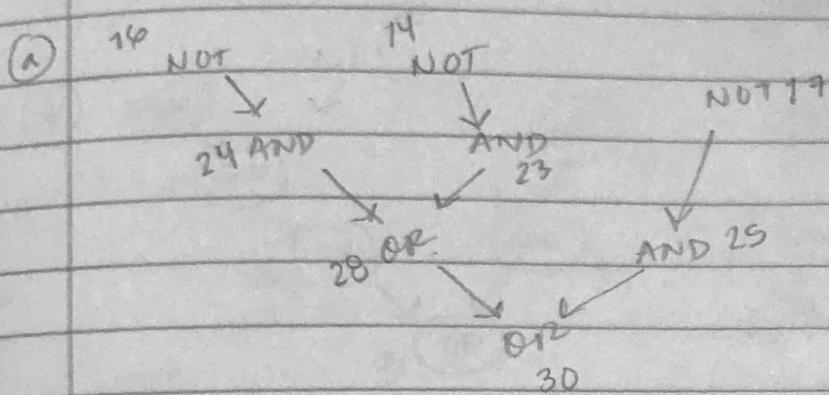
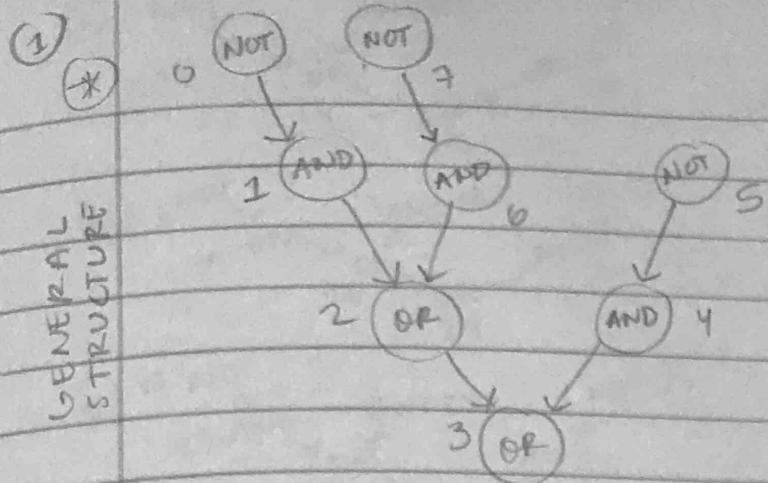
(d)



vertex 10 is not counted by Grami

- possibly because we already got what we
needed

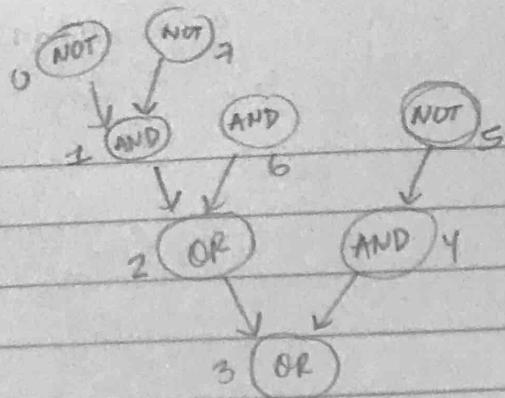
- if we remove edge $9 \rightarrow 20$ and keep $10 \rightarrow 20$
Grami takes $10 \rightarrow 20$ into consideration for the
variants.



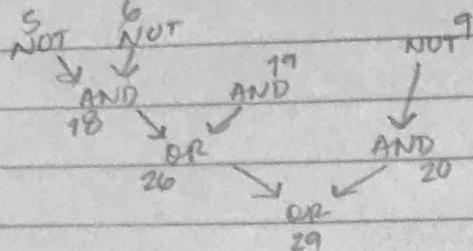
Vertex 19 is not considered by Graffiti
 - Again, it might be because replica was already identified.

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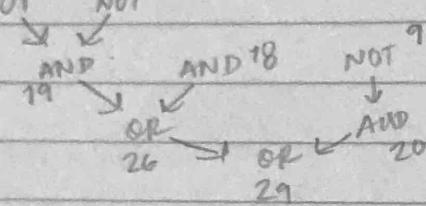
GENERAL
STRUCTURE



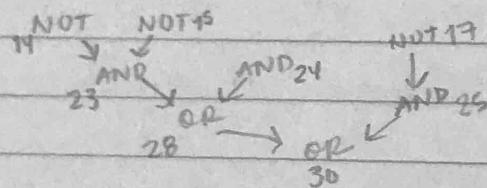
(a)



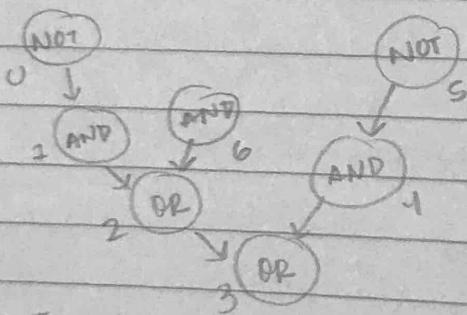
(b)



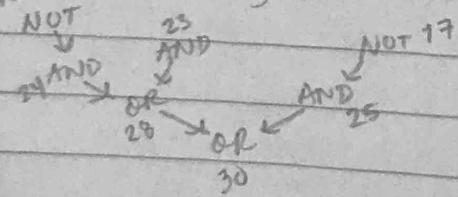
(c)



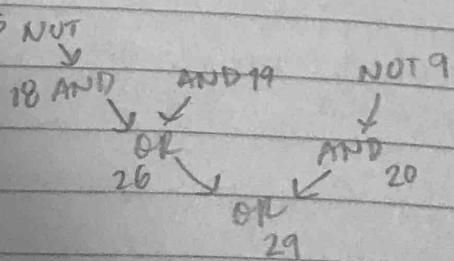
GENERAL
STRUCTURE *



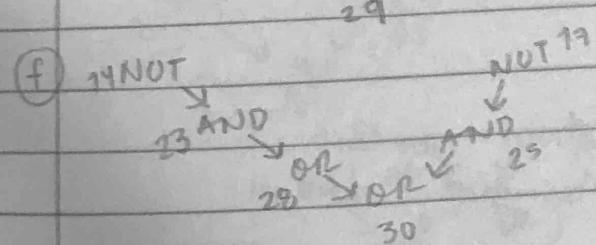
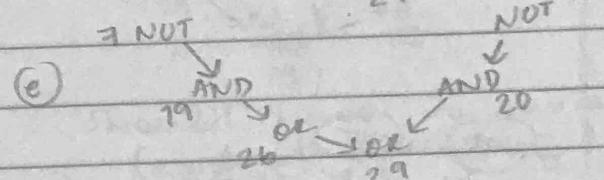
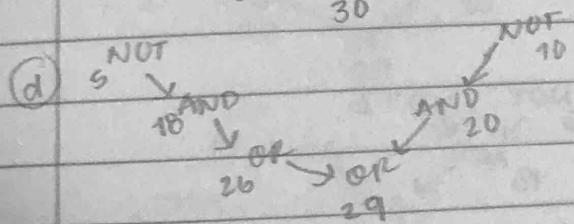
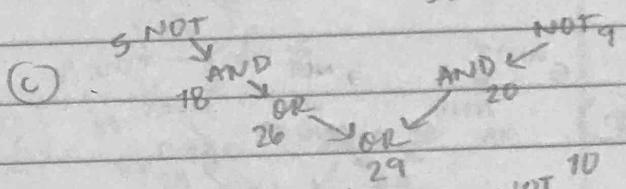
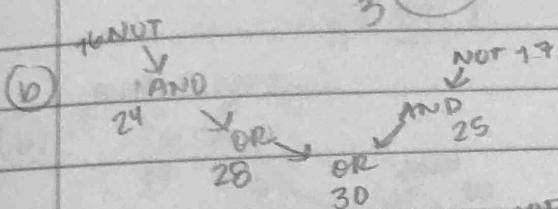
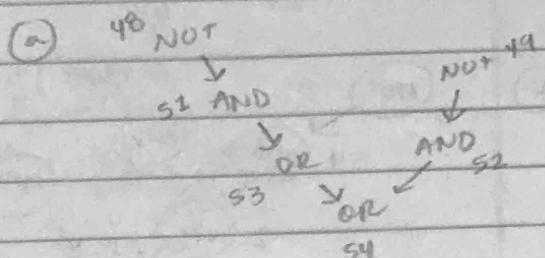
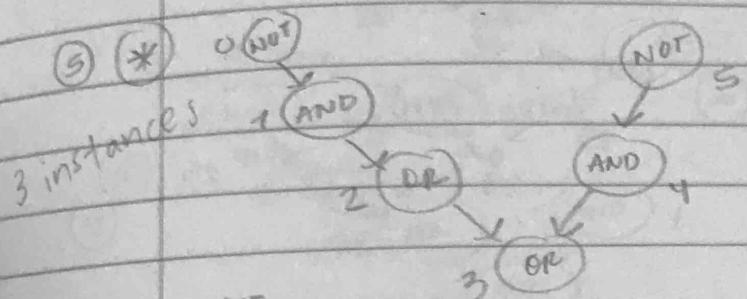
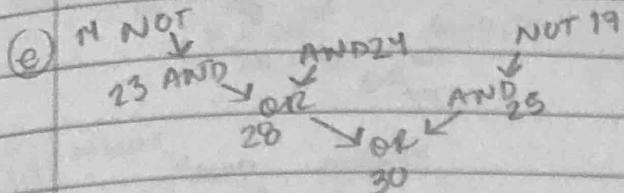
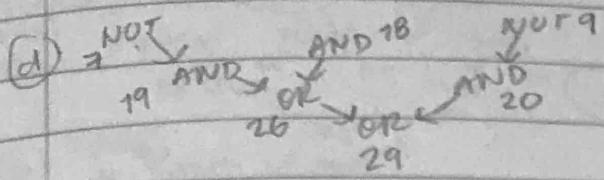
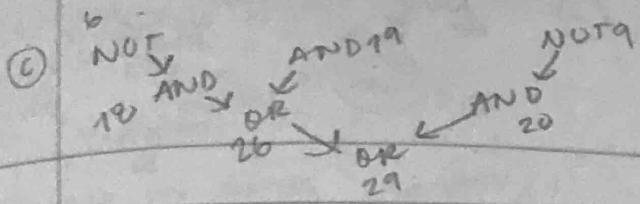
(a)

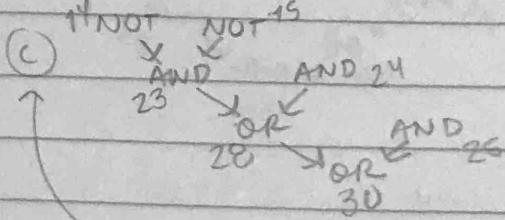
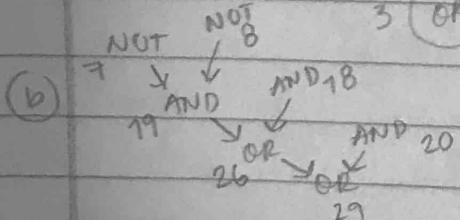
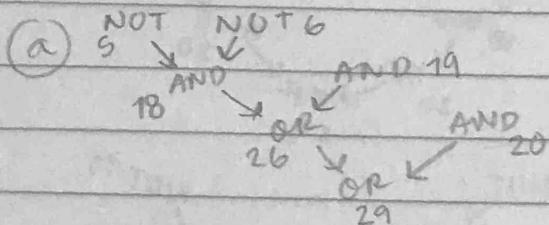
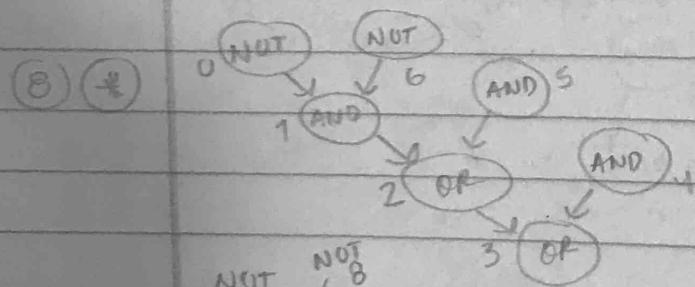
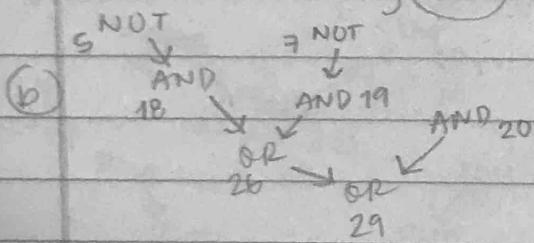
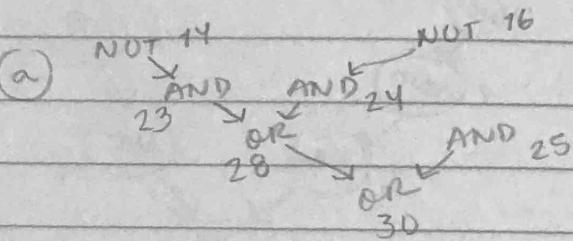
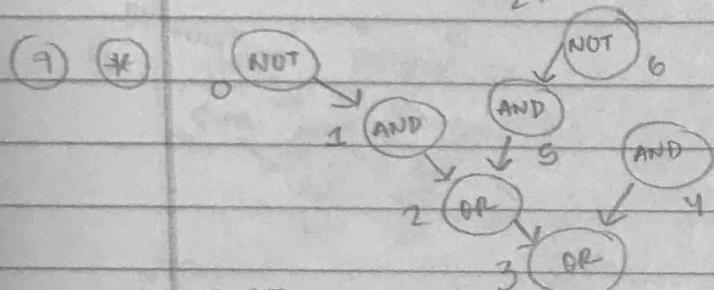
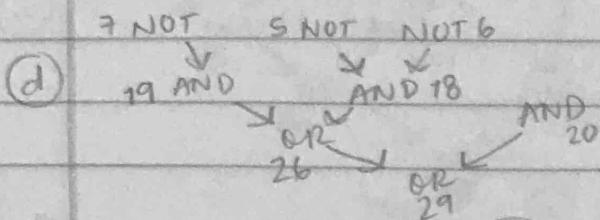
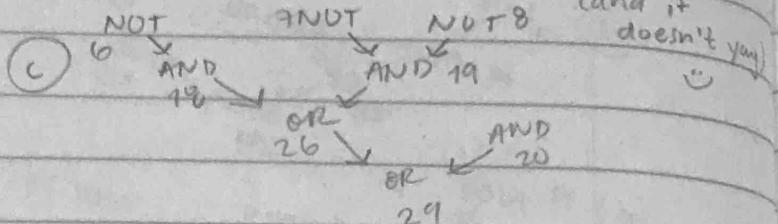
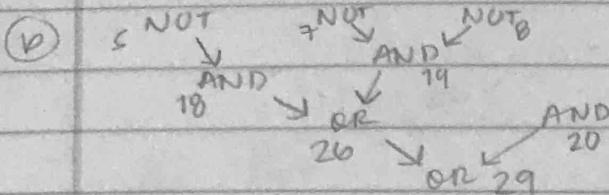
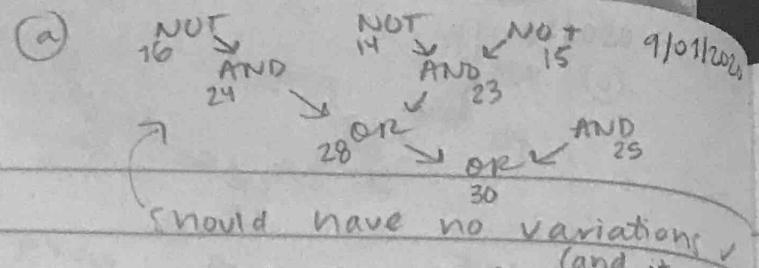
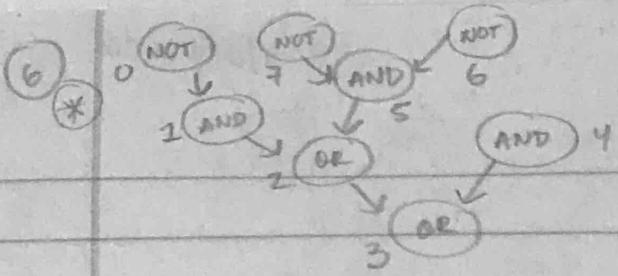


(b)



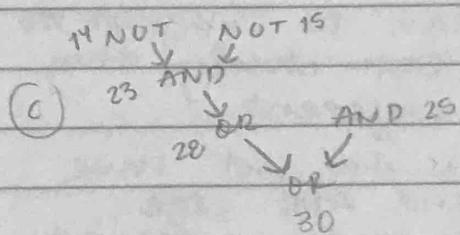
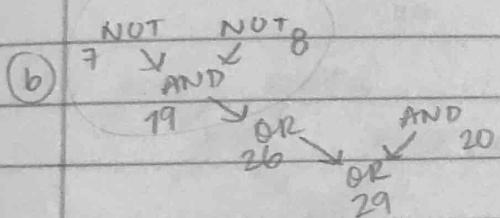
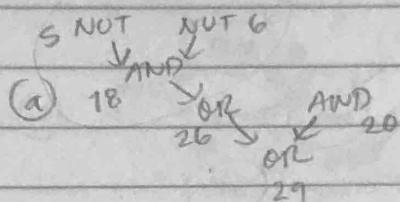
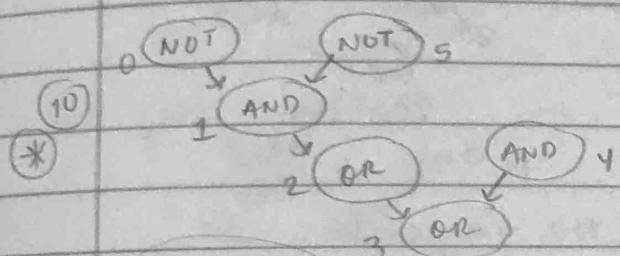
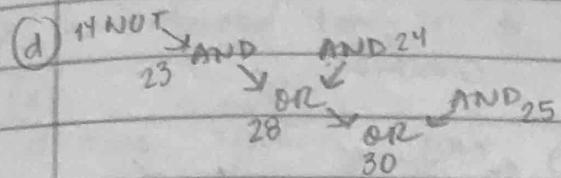
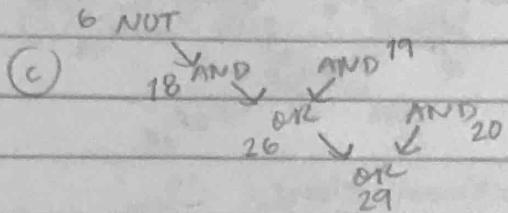
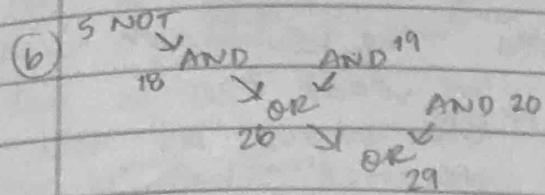
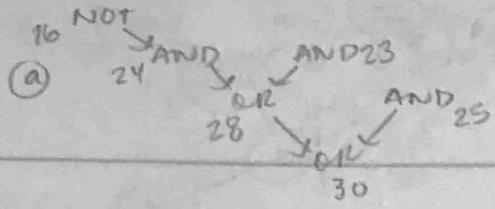
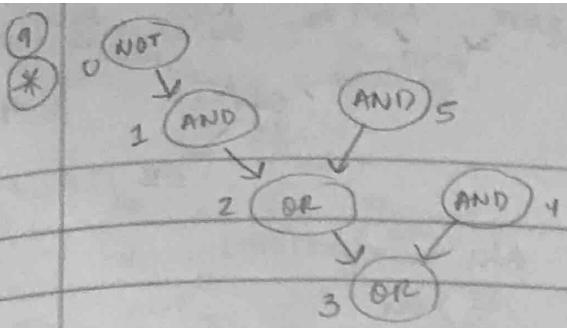
9/01/2020



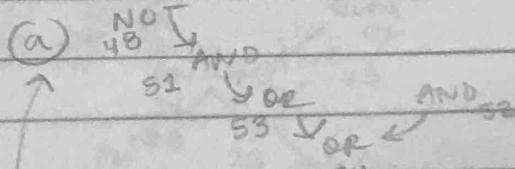
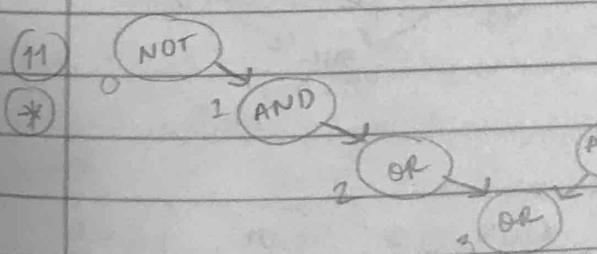


Should have no variations
(and it doesn't) ☺

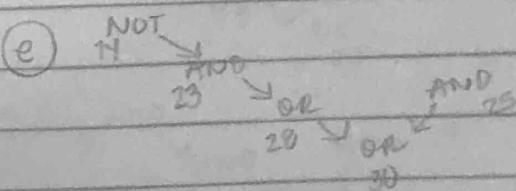
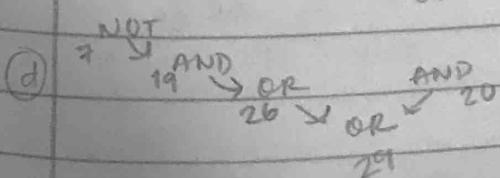
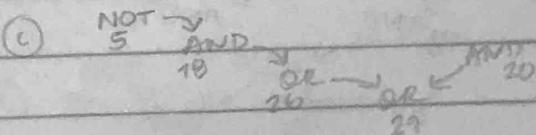
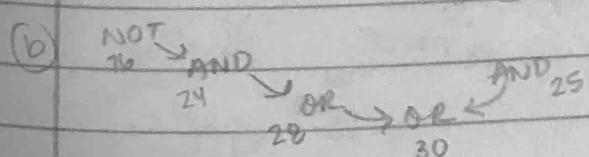
9/02/2020



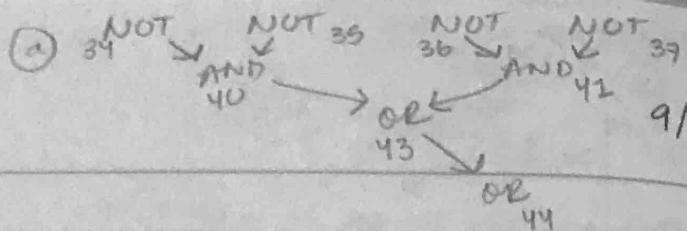
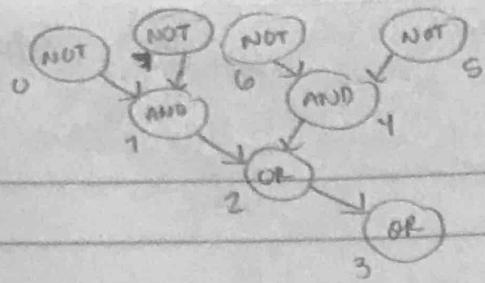
should have no variations
(and it doesn't 😊)



should have no variations 😊

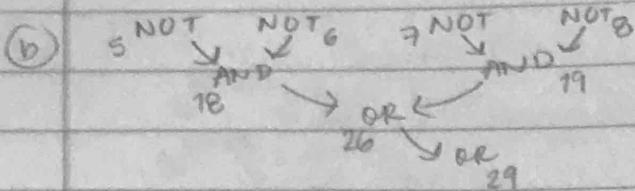


(12)
*)



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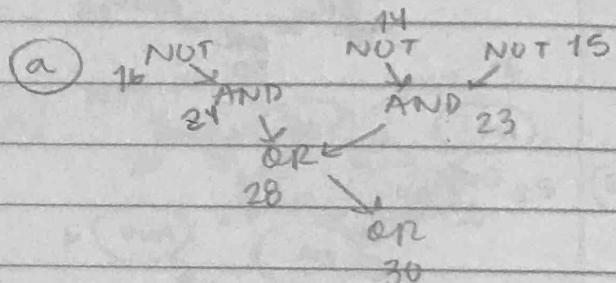
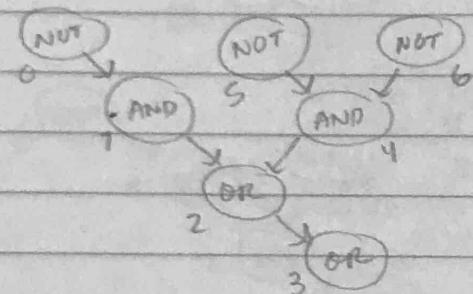
No variations: ☺



No variations: ☺

Note: The Subgraph ending in node #30 is not the same as this instance. That is why it is not identified by Grami.

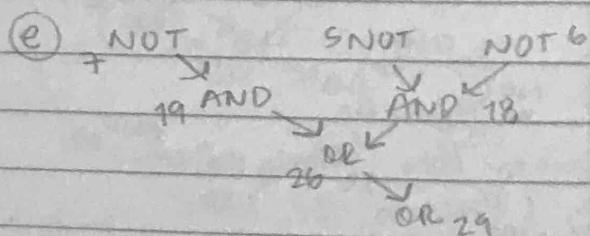
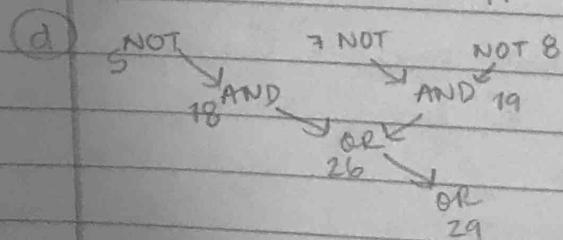
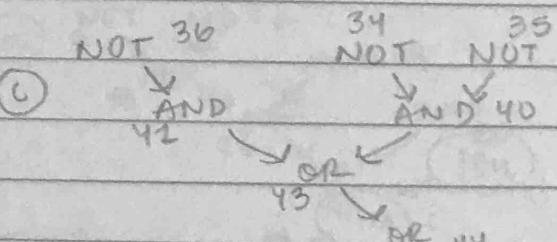
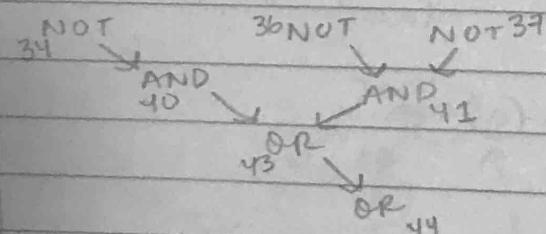
(13)
*)



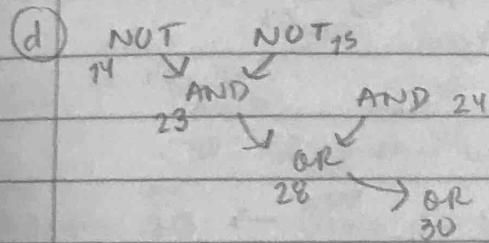
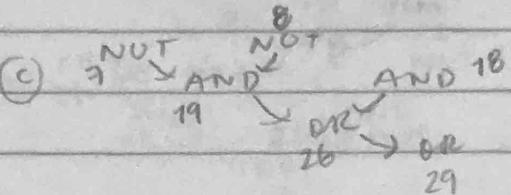
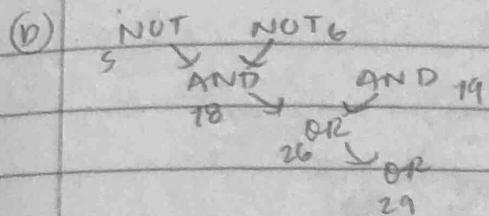
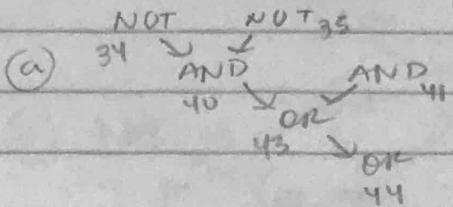
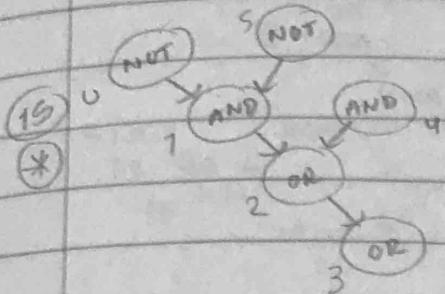
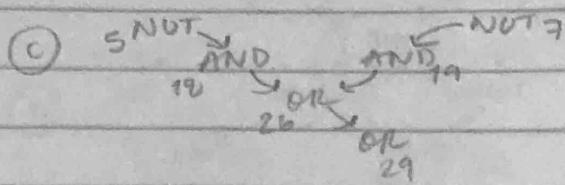
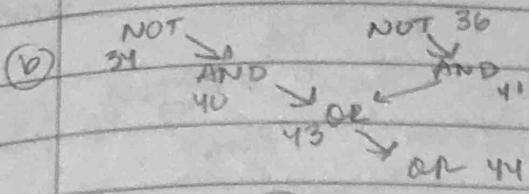
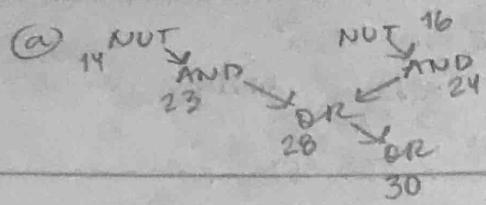
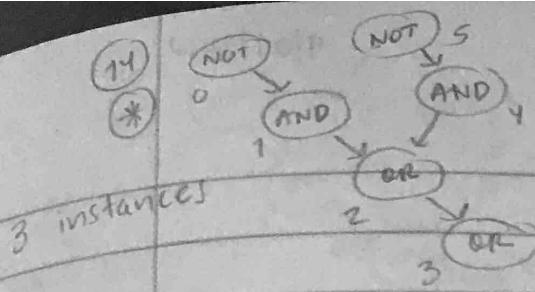
No variants: ☺

Similar to subgraph #6 but look closely. They are different.

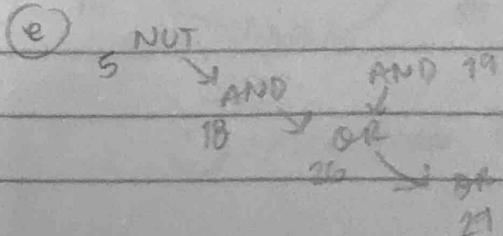
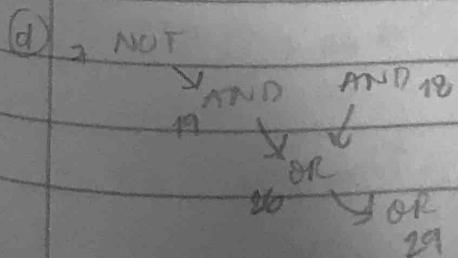
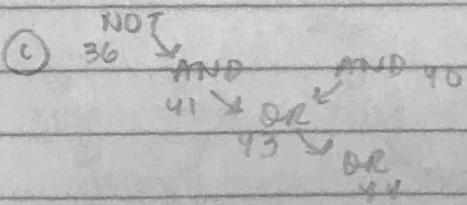
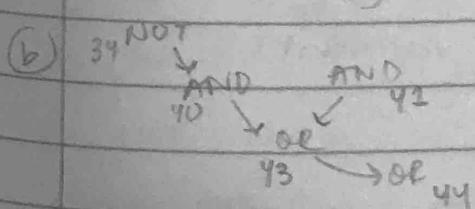
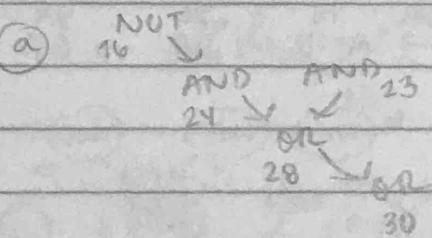
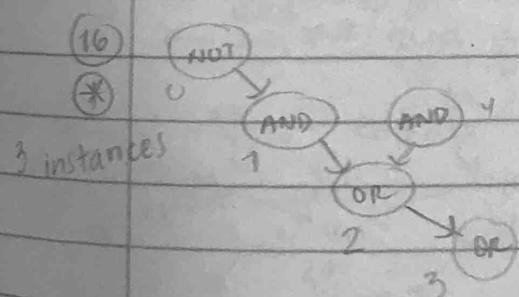
→ This does not have and AND edge towards vertex #3



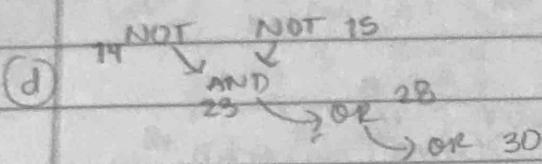
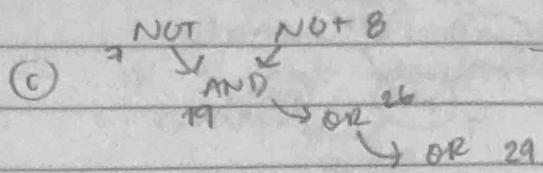
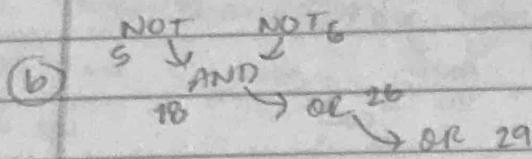
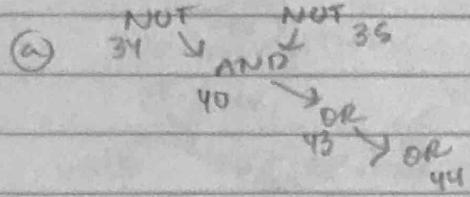
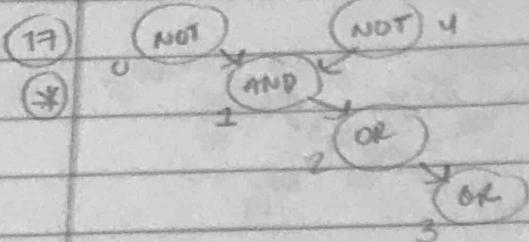
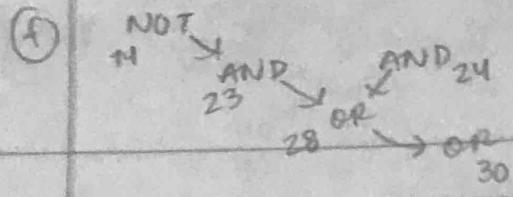
9/02/2020



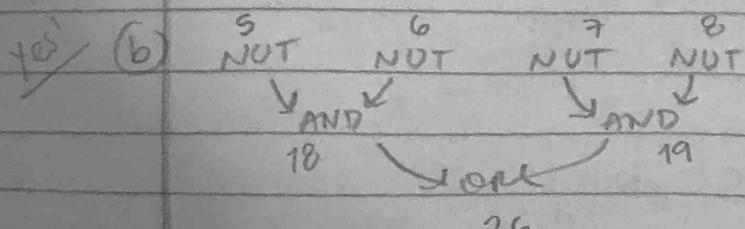
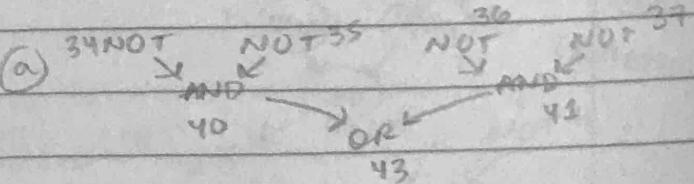
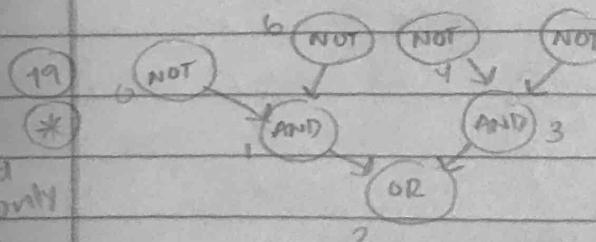
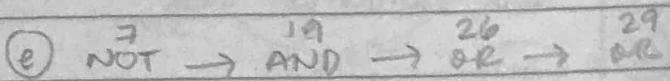
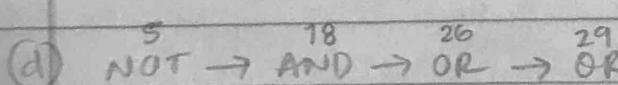
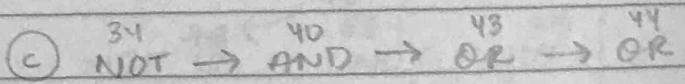
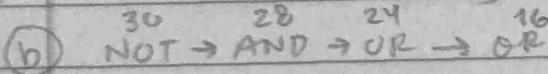
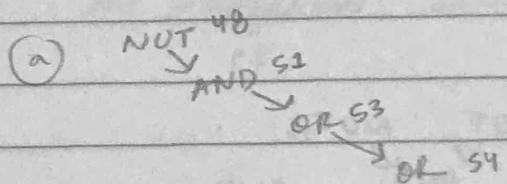
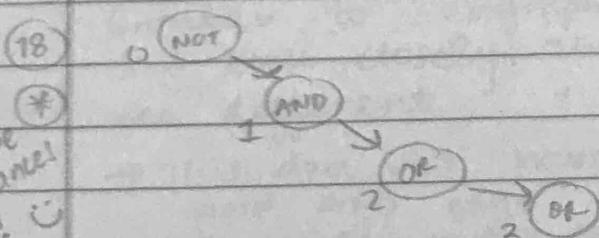
No variants: ☺



9/01/2020



No variants : ☺

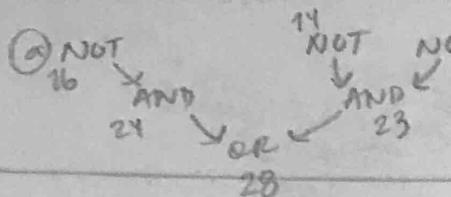
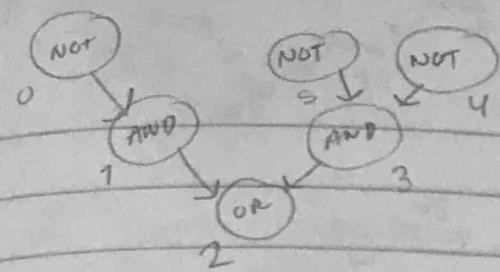


No variants : ☺

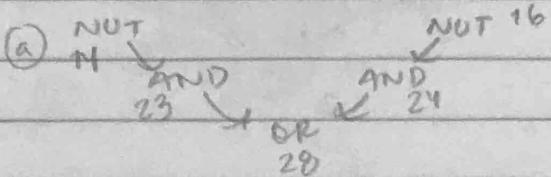
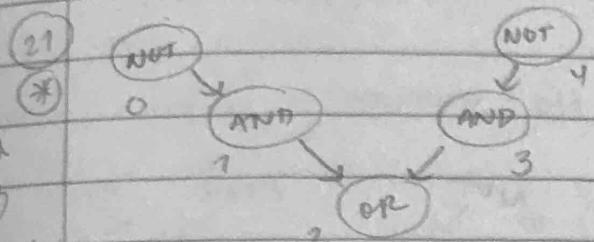
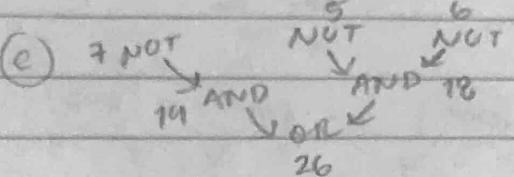
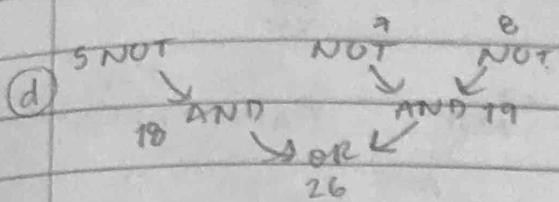
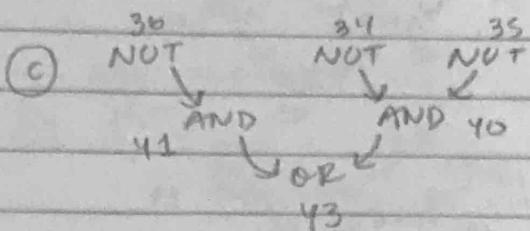
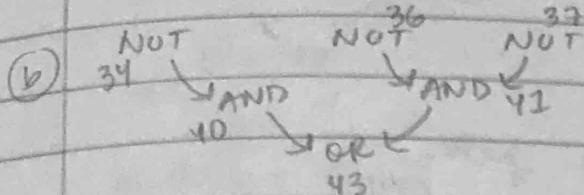
No variants : ☺

9/01/2020

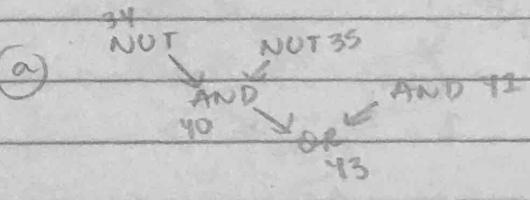
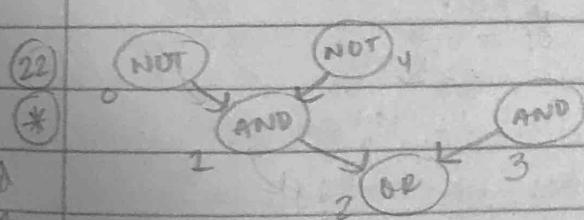
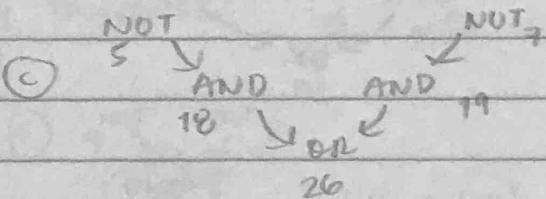
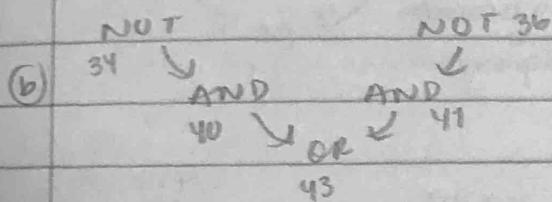
Should
be
yes!



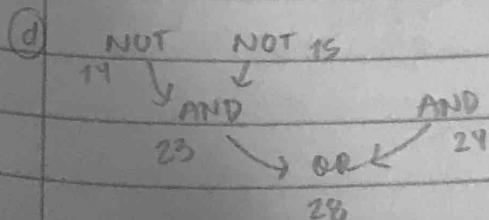
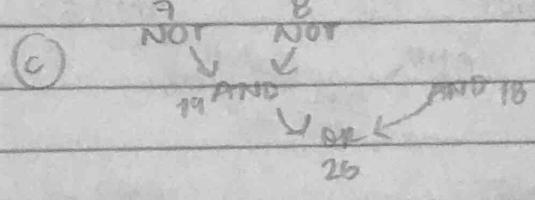
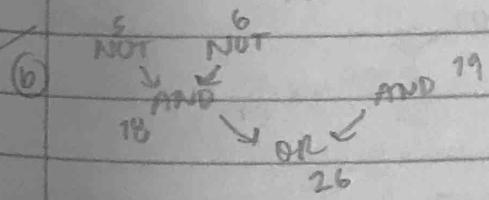
No variants: ☺



No variants: ☺



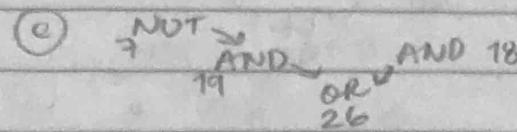
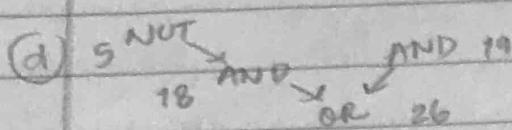
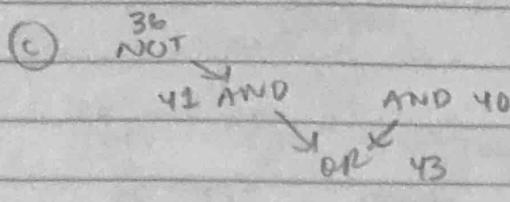
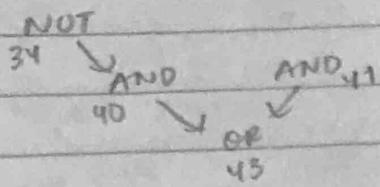
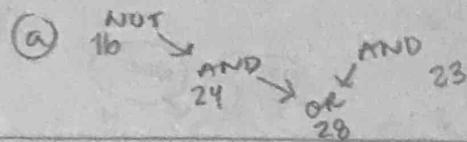
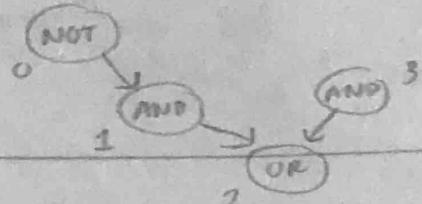
Covered none
variants.



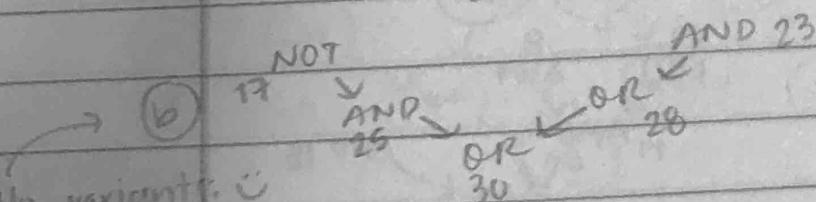
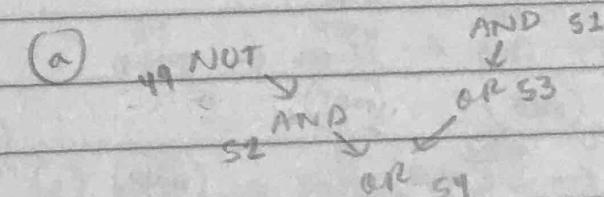
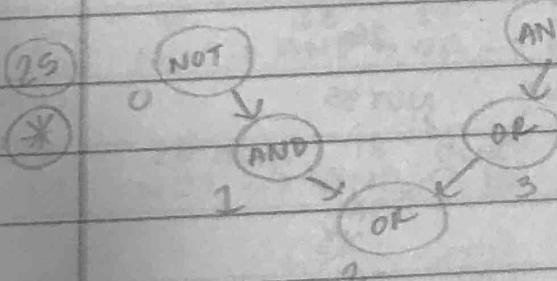
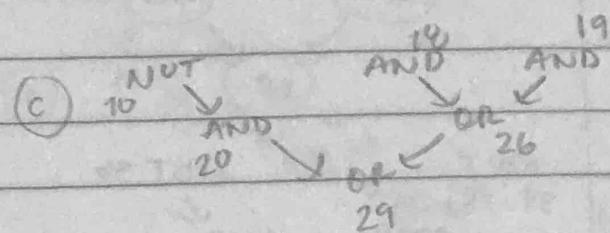
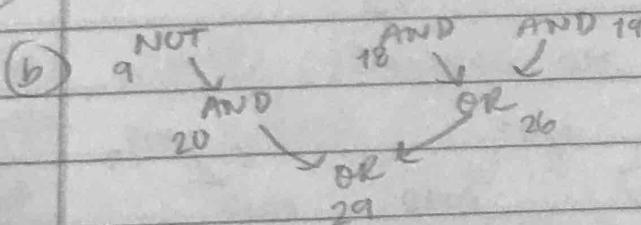
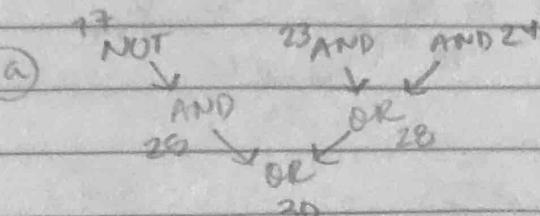
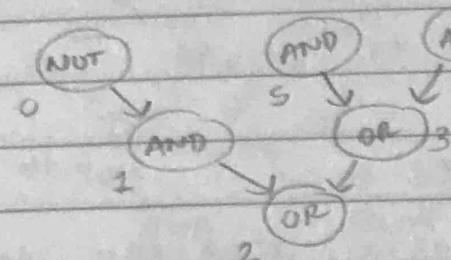
No variants: ☺

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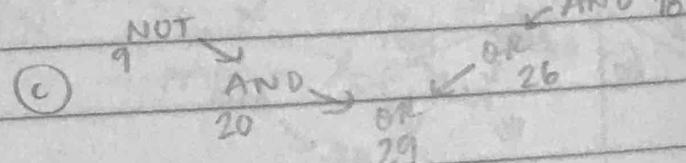
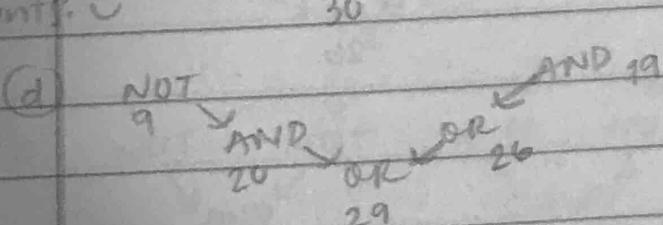
Should
be yes
(b)



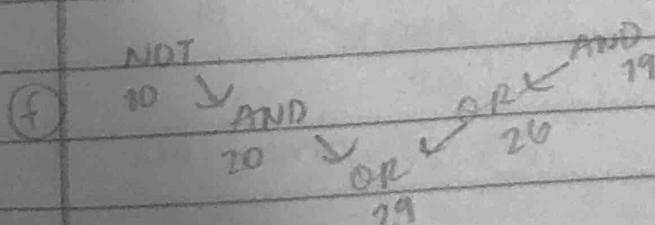
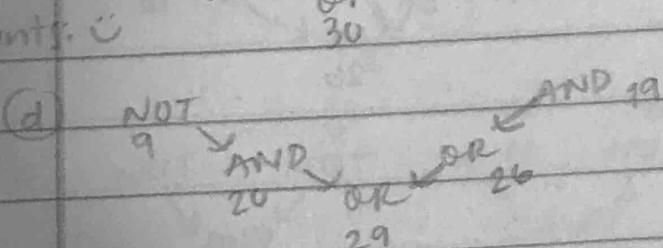
Should
be 2
yes



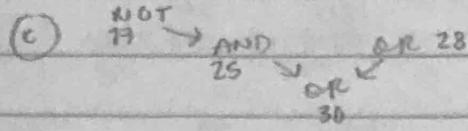
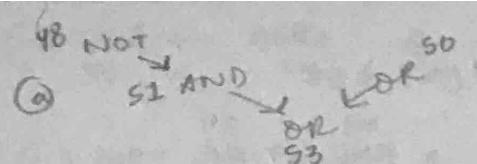
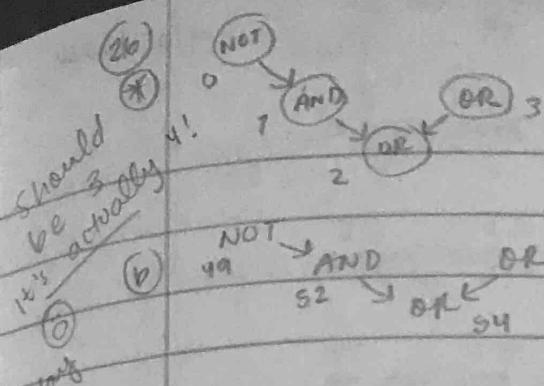
No variants: ☺



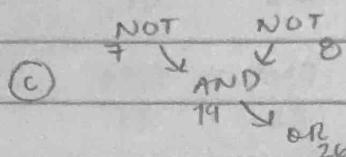
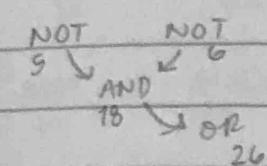
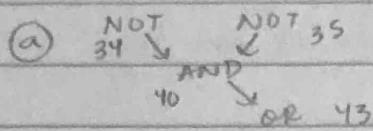
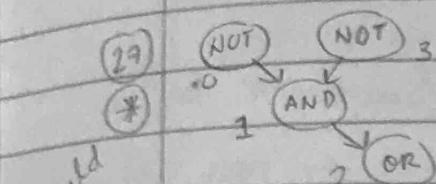
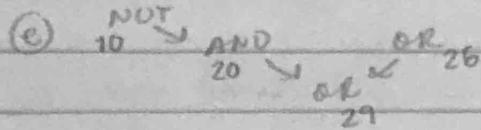
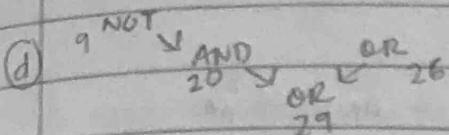
No variants: ☺



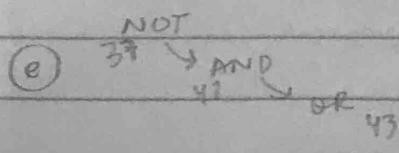
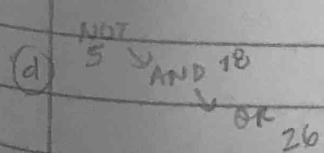
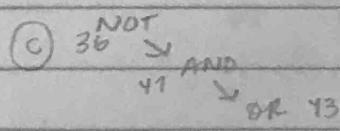
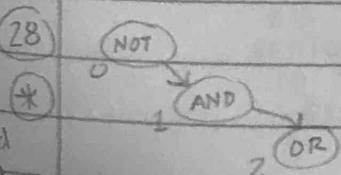
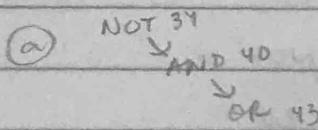
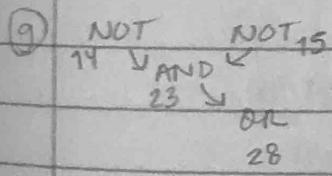
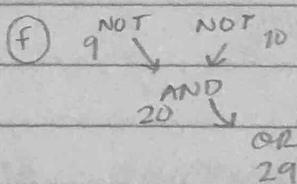
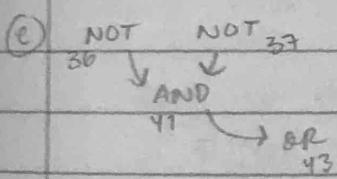
9/01/2020



No variants: 0



What if we change freq Threshold \Rightarrow Now it detects
Now it is subgraph #2



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$$(f) \begin{matrix} 6 & \text{NOT} & 18 \\ & \searrow & \downarrow \text{AND} \\ & 8 & \rightarrow 26 \end{matrix}$$

$$(h) \begin{matrix} 8 & \text{NOT} & 19 \\ & \searrow & \downarrow \text{AND} \\ & 10 & \rightarrow 26 \end{matrix}$$

$$(g) \begin{matrix} 7 & \text{NOT} & 19 \\ & \searrow & \downarrow \text{AND} \\ & 9 & \rightarrow 26 \end{matrix}$$

$$(i) \begin{matrix} 9 & \text{NOT} & 20 \\ & \searrow & \downarrow \text{AND} \\ & 11 & \rightarrow 29 \end{matrix}$$

$$(j) \begin{matrix} 10 & \text{NOT} & 20 \\ & \searrow & \downarrow \text{AND} \\ & 12 & \rightarrow 29 \end{matrix}$$

$$(k) \begin{matrix} 14 & \text{NOT} & 23 \\ & \searrow & \downarrow \text{AND} \\ & 15 & \rightarrow 28 \end{matrix}$$

$$(l) \begin{matrix} 15 & \text{NOT} & 23 \\ & \searrow & \downarrow \text{AND} \\ & 16 & \rightarrow 28 \end{matrix}$$

$$(m) \begin{matrix} 16 & \text{NOT} & 24 \\ & \searrow & \downarrow \text{AND} \\ & 17 & \rightarrow 28 \end{matrix}$$

$$(n) \begin{matrix} 48 & \text{NOT} & 51 \\ & \searrow & \downarrow \text{AND} \\ & 49 & \rightarrow 53 \end{matrix}$$

$$(o) \begin{matrix} 17 & \text{NOT} & 25 \\ & \searrow & \downarrow \text{AND} \\ & 18 & \rightarrow 30 \end{matrix}$$

$$(p) \begin{matrix} 49 & \text{NOT} & 52 \\ & \searrow & \downarrow \text{AND} \\ & 50 & \rightarrow 54 \end{matrix}$$

end in node

54

53

30

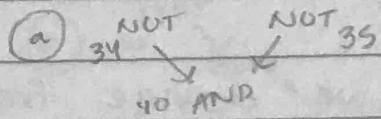
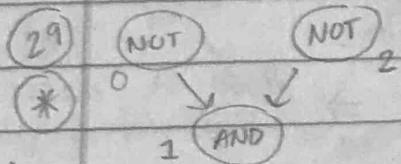
28

29

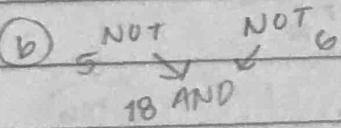
26

43

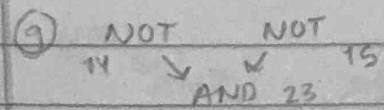
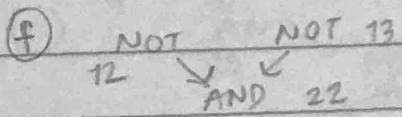
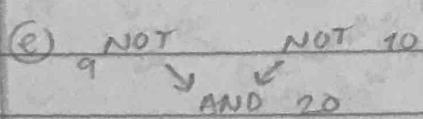
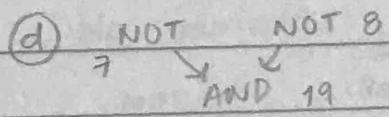
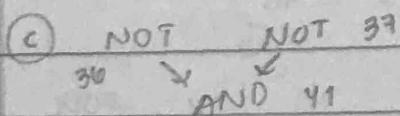
want = ? yay! ☺



should
be X
:/



* when changing freq threshold to 7
Now it is subgraph #1.



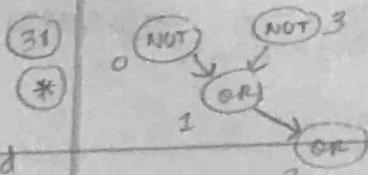
- (a) NOT → AND
 34 40
- (b) NOT → AND
 35 40
- (c) NOT → AND
 36 41
- (d) NOT → AND
 5 18
- (e) NOT → AND
 37 41
- (f) NOT → AND
 6 18
- (g) NOT → AND
 7 19
- (h) NOT → AND
 8 19
- (i) NOT → AND
 9 20
- (j) NOT → AND
 10 20
- (k) NOT → AND
 11 21
- (l) NOT → AND
 12 22
- (m) NOT → AND
 13 22
- (n) NOT → AND
 14 23
- (o) NOT → AND
 15 23
- (p) NOT → AND
 16 24
- (q) NOT → AND
 48 51
- (r) NOT → AND
 17 25
- (s) NOT → AND
 49 52

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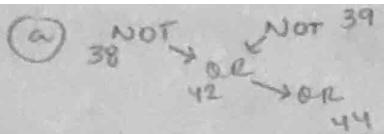
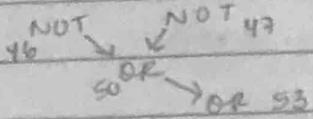
end in node

52
 25
 51
 24
 23
 22
 21
 20
 19
 18
 41
 49

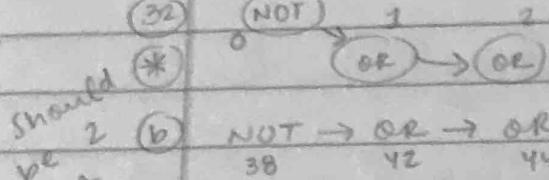
COUNT = 12 Yay! ☺



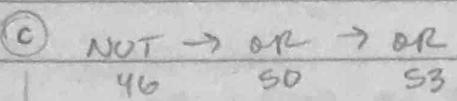
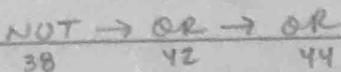
Should
be 2
yes!



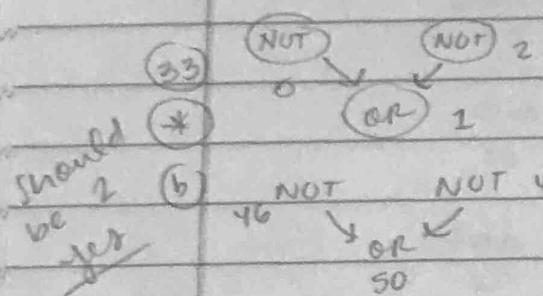
9/01/2020



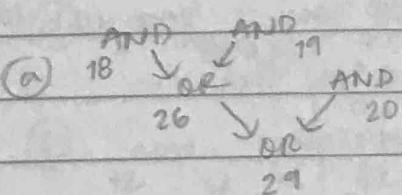
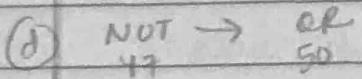
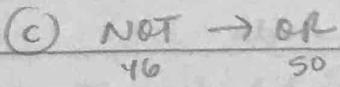
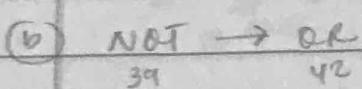
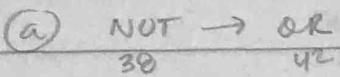
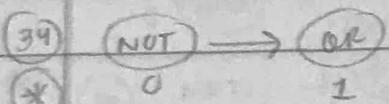
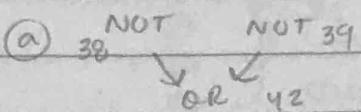
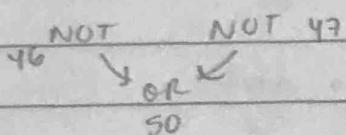
Should
be 2
yes



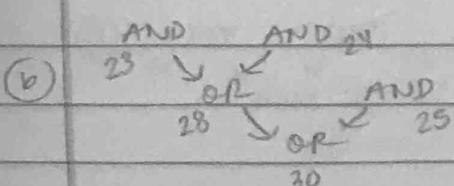
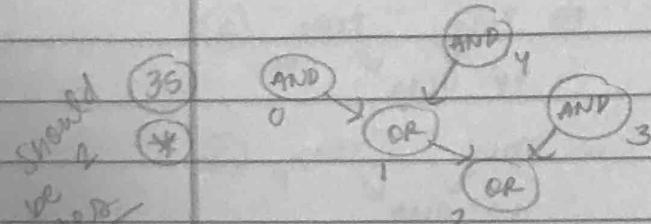
Did not get a variant for
this one



Should
be 2
yes

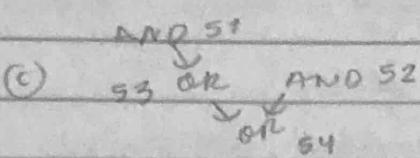
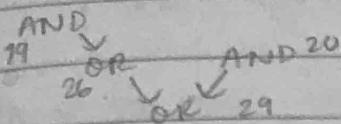
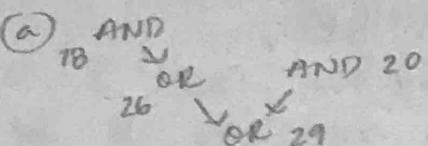
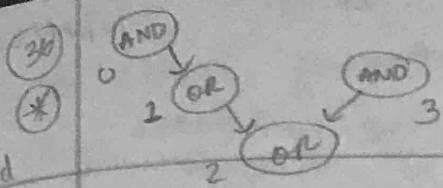


No variants: ☺

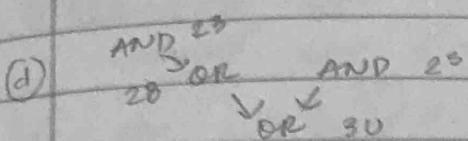


No variants: ☺

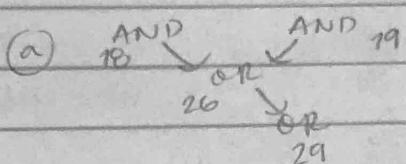
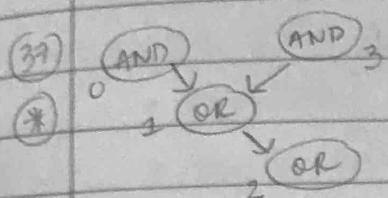
9/01/2020



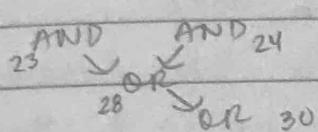
No variants: ☺



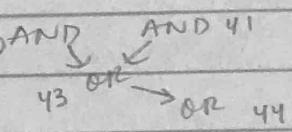
Did not get variant for
this one



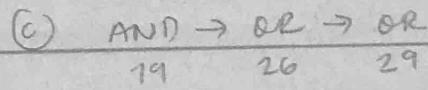
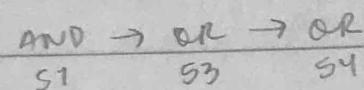
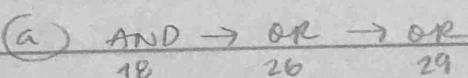
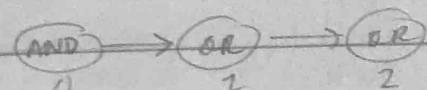
No variants: ☺



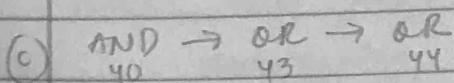
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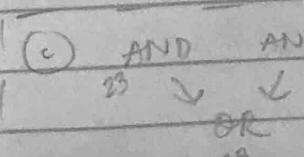
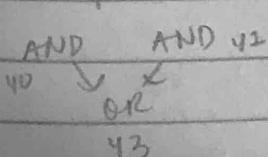
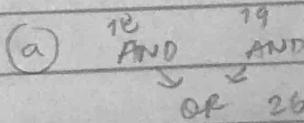
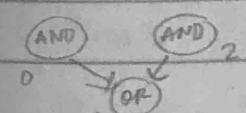
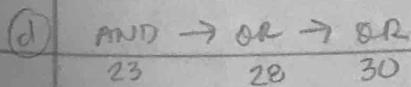
No variants: ☺



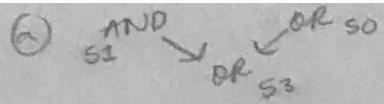
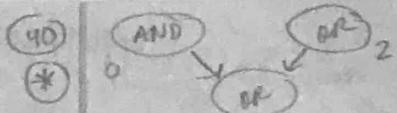
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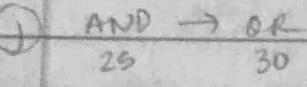
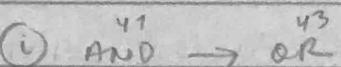
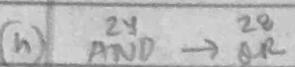
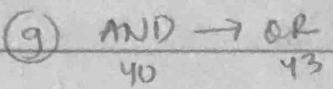
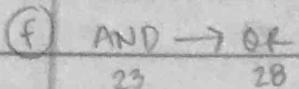
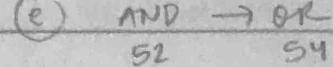
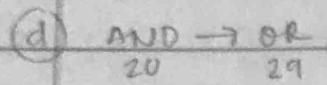
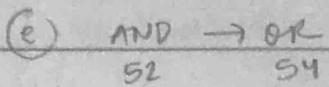
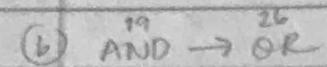
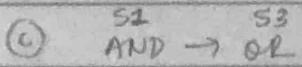
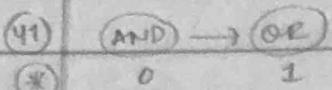
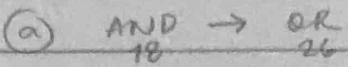
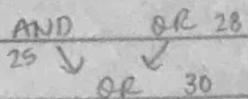
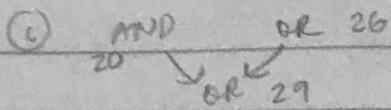
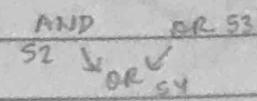
* Now trying with freq threshold = 4
Now it is subgraph # 6



freqThreshold = 3
Now it is S6 # 23

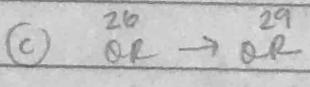
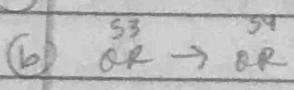
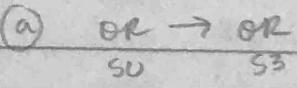
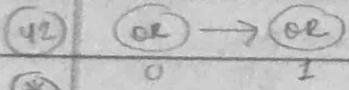


should
be 3
actually
it's
1!

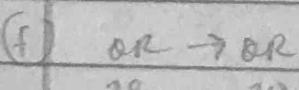
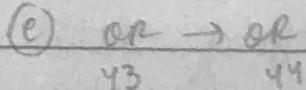
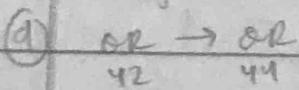


end in node

26
53
29
54
28
43
30 } count = 7 yay



TRY with freq threshold = 5



end in node

30
44
29
54
53 } count = 5 yay