

Repository unde se afla pdf-ul: <https://github.com/gandolh/UniASD/tree/main/LC>

Repository cod aplicatie verificare validitate propozitii:

<https://github.com/gandolh/UniASD/tree/main/LC/validareExpresie>

Aplicatie: <https://gandolh.github.io/UniASD/LC/validareExpresie/>

a)  $((P \Rightarrow Q) \vee S) \Leftrightarrow T$

0. ( - urmeaza o formula compusa
1. ( - urmeaza o formula compusa
2. ( - urmeaza o formula compusa
3. P – formula bine formata – atomica
4.  $\Rightarrow$  - conector
5. Q – formula bine formata – atomica
6. ) – inchide 2
7.  $\vee$  - conector
8. S – fbf (atomica)
9. )-inchide 1
10.  $\Leftrightarrow$  conector
11. T – fbf (atomica)
12. ) – inchide 0.

Formula propozitionala bine formata.

b)  $((P \Rightarrow (Q \wedge (S \Rightarrow T))))$

0. ( - urmeaza o formula compusa
1. ( - urmeaza o formula compusa
2. P – fbf (atomica)
3.  $\Rightarrow$  - conector
4. ( - urmeaza o formula compusa
5. Q – fbf (atomica)
6.  $\wedge$  - conector
7. ( - urmeaza o formula compusa
8. S – fbf (atomica)
9.  $\Rightarrow$  - conector
10. T – fbf (atomica)
11. )-inchide 7
12. ) – inchide 4
13. ) – inchide 2
14. ) inchide 1

Formula propozitionala incorrect formata

Explicatie: pozitia 0 se asteapta o formula compusa, in schimb se gaseste doar un argument.

c)  $(\neg(B(\neg Q)) \wedge R)$

0. ( - urmeaza o formula compusa
1.  $\neg$  - conector
2. ( - urmeaza o formula compusa
3. B- fbf (propozitie atomica)
4. (-urmeaza o formula compusa

Formula propozitionala incorrect formata

Parcurgand de la stanga la dreapta observam ca dupa paranteza doi apare o propozitie atomica. Neavand conectorul not in fata ei, necesita un conector binar dupa. Ajungem pe pozitia 4, unde nu se afla un conector, deci propozitia noastra nu este una bine formata.

d)  $(P \wedge ((\neg Q) \wedge (\neg(\neg(Q \Leftrightarrow (\neg R)))))))$

0. ( - urmeaza o formula compusa
1. P – fbf (atomica)
2.  $\wedge$  - conector
3. ( - urmeaza o formula compusa
4. ( - urmeaza o formula compusa
5.  $\neg$  conector
6. Q – fbf(atomica)
7. ) – inchide 4
8.  $\wedge$  - conector
9. ( - urmeaza o formula compusa
10.  $\neg$  - conector
11. ( - urmeaza o formula compusa
12.  $\neg$  - conector
13. ( - urmeaza o formula compusa
14. Q – fbf(atomica)
15.  $\Leftrightarrow$  - conector
16. ( - urmeaza o formula compusa
17.  $\neg$  - conector
18. R – fbf(atomica)
19. ) – inchide 16
20. ) inchide 13
21. ) - inchide 11
22. ) – inchide 9
23. )- inchide 3
24. ) – inchide 0.

Formula propozitionala bine formata.

e)  $((P \vee Q) \Rightarrow \neg(P \vee Q)) \wedge (P \vee (\neg(\neg Q)))$ .

0. ( - urmeaza o formula compusa
1. ( - urmeaza o formula compusa
2. P – fbf(atomica)
3.  $\vee$  - conector
4. Q – fbf(atomica)
5. ) – inchide 1
6.  $\Rightarrow$  - conector
7.  $\neg$  - conector

Formula propozitionala incorrect formata

Nu se pot afla 2 conectori unul dupa altul.