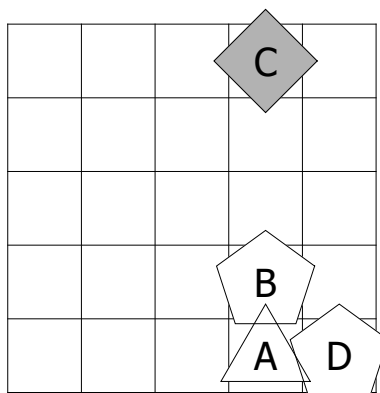


Izračunaj vrednosti splošnih izjav

Naloga zahteva, da poiščemo vrednosti splošnih izjav v danem svetu.

1. $\exists x$ petkotnik(x).
2. $\forall x$ trikotnik(x).
3. $\forall x$ kvadrat(x).
4. $\forall x$ bel(x).
5. $\forall x(\neg \text{trikotnik}(x))$.
6. $\exists x(\neg \text{svit}(x))$.
7. $\forall x(\neg \text{bel}(x))$.
8. $\forall x(\neg \text{bel}(x))$.



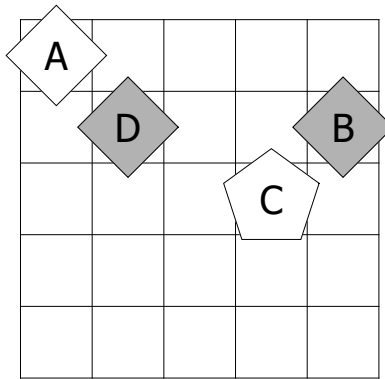
1	2	3	4	5	6	7	8

Odgovor:

1	2	3	4	5	6	7	8
R	N	N	N	N	R	N	N

1.

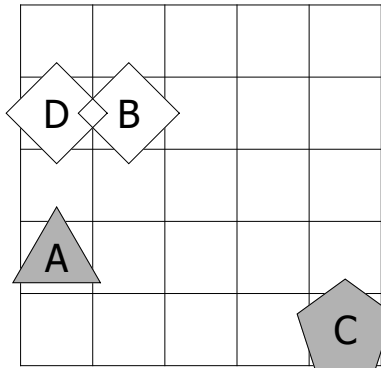
1. $\forall x \text{ siv}(x)$.
2. $\forall x \text{ siv}(x)$.
3. $\exists x \text{ trikotnik}(x)$.
4. $\exists x \text{ bel}(x)$.
5. $\forall x(\neg \text{trikotnik}(x))$.
6. $\exists x(\neg \text{siv}(x))$.
7. $\forall x(\neg \text{petkotnik}(x))$.
8. $\forall x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

2.

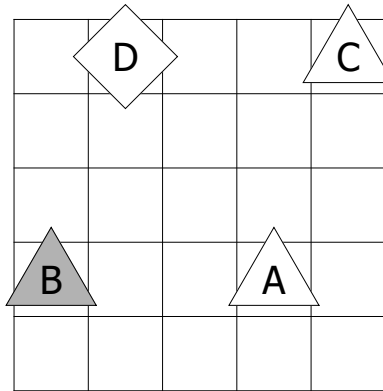
1. $\exists x \text{ kvadrat}(x)$.
2. $\forall x \text{ kvadrat}(x)$.
3. $\exists x \text{ kvadrat}(x)$.
4. $\forall x \text{ petkotnik}(x)$.
5. $\forall x(\neg \text{bel}(x))$.
6. $\forall x(\neg \text{petkotnik}(x))$.
7. $\forall x(\neg \text{petkotnik}(x))$.
8. $\exists x(\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

3.

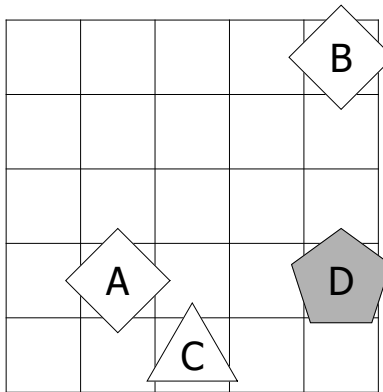
1. $\exists x$ kvadrat(x).
2. $\forall x$ trikotnik(x).
3. $\forall x$ kvadrat(x).
4. $\forall x$ bel(x).
5. $\exists x(\neg \text{bel}(x))$.
6. $\forall x(\neg \text{siv}(x))$.
7. $\exists x(\neg \text{trikotnik}(x))$.
8. $\exists x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

4.

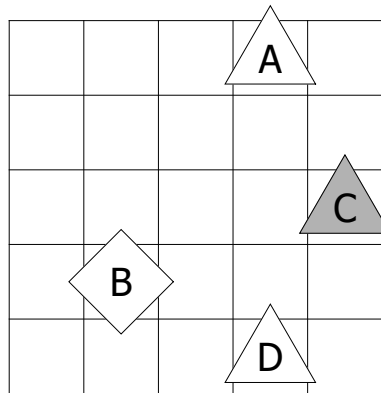
1. $\forall x$ trikotnik(x).
2. $\forall x$ bel(x).
3. $\exists x$ trikotnik(x).
4. $\exists x$ bel(x).
5. $\forall x(\neg \text{bel}(x))$.
6. $\forall x(\neg \text{bel}(x))$.
7. $\forall x(\neg \text{petkotnik}(x))$.
8. $\forall x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

5.

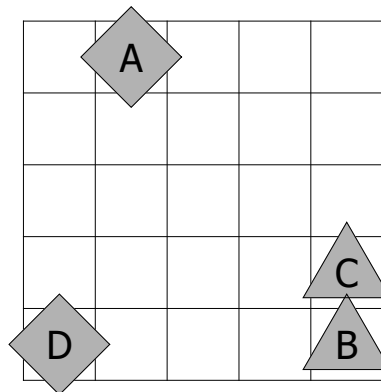
1. $\forall x \text{ bel}(x)$.
2. $\forall x \text{ petkotnik}(x)$.
3. $\exists x \text{ siv}(x)$.
4. $\forall x \text{ trikotnik}(x)$.
5. $\forall x (\neg \text{petkotnik}(x))$.
6. $\forall x (\neg \text{bel}(x))$.
7. $\forall x (\neg \text{bel}(x))$.
8. $\exists x (\neg \text{kvadrat}(x))$.



1	2	3	4	5	6	7	8

6.

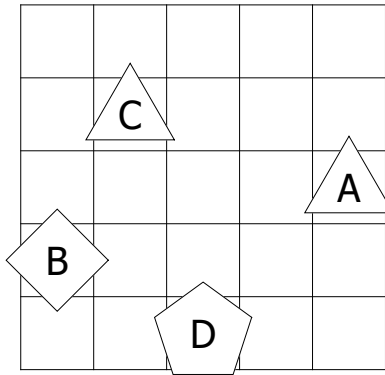
1. $\exists x \text{ kvadrat}(x)$.
2. $\forall x \text{ siv}(x)$.
3. $\exists x \text{ kvadrat}(x)$.
4. $\forall x \text{ bel}(x)$.
5. $\exists x (\neg \text{bel}(x))$.
6. $\forall x (\neg \text{bel}(x))$.
7. $\exists x (\neg \text{petkotnik}(x))$.
8. $\exists x (\neg \text{petkotnik}(x))$.



1	2	3	4	5	6	7	8

7.

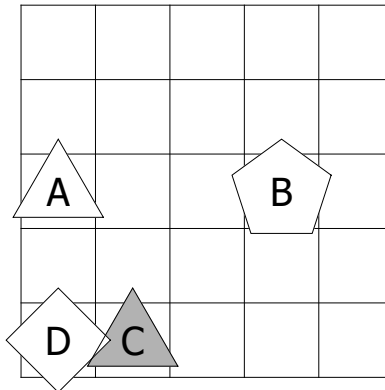
1. $\exists x \text{ trikotnik}(x)$.
2. $\forall x \text{ petkotnik}(x)$.
3. $\exists x \text{ siv}(x)$.
4. $\forall x \text{ siv}(x)$.
5. $\exists x (\neg \text{siv}(x))$.
6. $\forall x (\neg \text{petkotnik}(x))$.
7. $\exists x (\neg \text{petkotnik}(x))$.
8. $\forall x (\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

8.

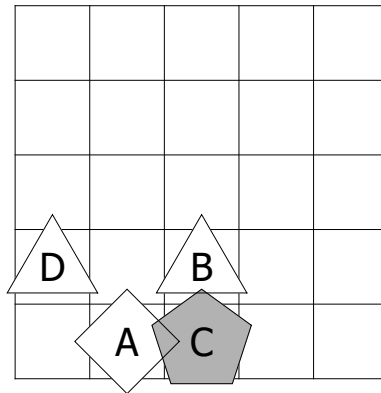
1. $\exists x \text{ petkotnik}(x)$.
2. $\forall x \text{ siv}(x)$.
3. $\forall x \text{ kvadrat}(x)$.
4. $\exists x \text{ bel}(x)$.
5. $\exists x (\neg \text{bel}(x))$.
6. $\exists x (\neg \text{trikotnik}(x))$.
7. $\forall x (\neg \text{trikotnik}(x))$.
8. $\exists x (\neg \text{kvadrat}(x))$.



1	2	3	4	5	6	7	8

9.

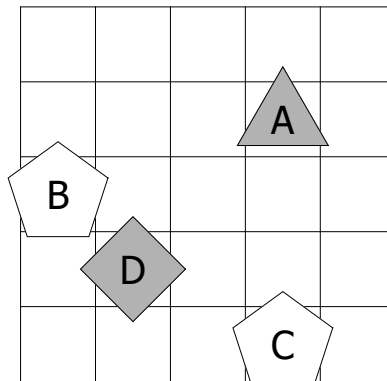
1. $\forall x \text{ petkotnik}(x)$.
2. $\exists x \text{ siv}(x)$.
3. $\exists x \text{ kvadrat}(x)$.
4. $\exists x \text{ petkotnik}(x)$.
5. $\exists x(\neg \text{trikotnik}(x))$.
6. $\exists x(\neg \text{bel}(x))$.
7. $\exists x(\neg \text{kvadrat}(x))$.
8. $\forall x(\neg \text{petkotnik}(x))$.



1	2	3	4	5	6	7	8

10.

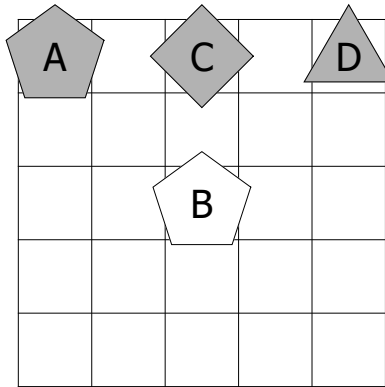
1. $\forall x \text{ siv}(x)$.
2. $\forall x \text{ kvadrat}(x)$.
3. $\forall x \text{ bel}(x)$.
4. $\exists x \text{ kvadrat}(x)$.
5. $\forall x(\neg \text{trikotnik}(x))$.
6. $\forall x(\neg \text{bel}(x))$.
7. $\forall x(\neg \text{kvadrat}(x))$.
8. $\exists x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

11.

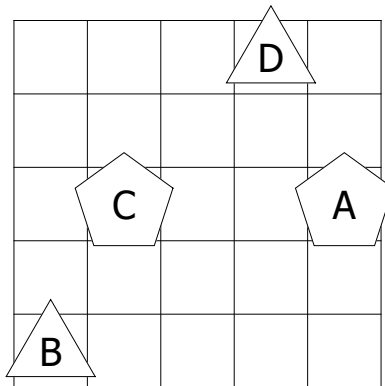
1. $\forall x \text{ bel}(x)$.
2. $\exists x \text{ kvadrat}(x)$.
3. $\forall x \text{ petkotnik}(x)$.
4. $\exists x \text{ trikotnik}(x)$.
5. $\forall x (\neg \text{bel}(x))$.
6. $\exists x (\neg \text{petkotnik}(x))$.
7. $\exists x (\neg \text{siv}(x))$.
8. $\exists x (\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

12.

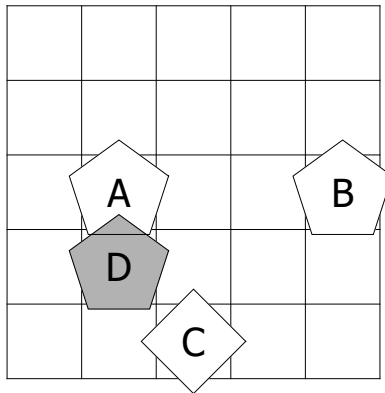
1. $\forall x \text{ kvadrat}(x)$.
2. $\forall x \text{ trikotnik}(x)$.
3. $\forall x \text{ trikotnik}(x)$.
4. $\exists x \text{ siv}(x)$.
5. $\exists x (\neg \text{bel}(x))$.
6. $\forall x (\neg \text{trikotnik}(x))$.
7. $\forall x (\neg \text{kvadrat}(x))$.
8. $\forall x (\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

13.

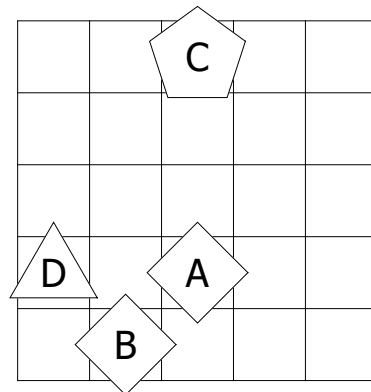
1. $\forall x \text{ siv}(x)$.
2. $\forall x \text{ petkotnik}(x)$.
3. $\forall x \text{ trikotnik}(x)$.
4. $\forall x \text{ petkotnik}(x)$.
5. $\forall x (\neg \text{siv}(x))$.
6. $\exists x (\neg \text{bel}(x))$.
7. $\forall x (\neg \text{bel}(x))$.
8. $\exists x (\neg \text{kvadrat}(x))$.



1	2	3	4	5	6	7	8

14.

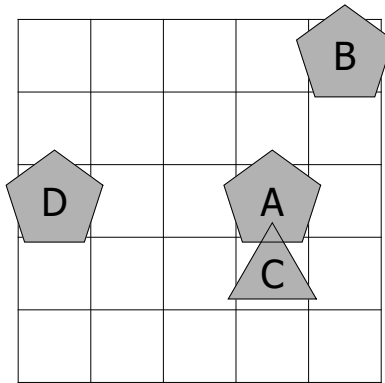
1. $\forall x \text{ kvadrat}(x)$.
2. $\forall x \text{ bel}(x)$.
3. $\exists x \text{ trikotnik}(x)$.
4. $\exists x \text{ kvadrat}(x)$.
5. $\exists x (\neg \text{trikotnik}(x))$.
6. $\forall x (\neg \text{siv}(x))$.
7. $\exists x (\neg \text{bel}(x))$.
8. $\forall x (\neg \text{siv}(x))$.



1	2	3	4	5	6	7	8

15.

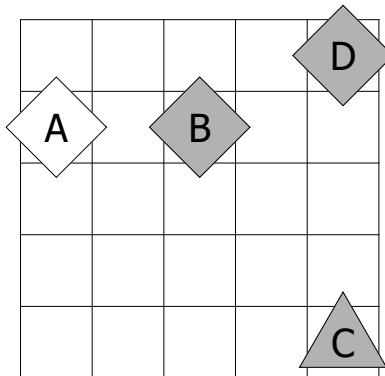
1. $\forall x$ kvadrat(x).
2. $\exists x$ bel(x).
3. $\forall x$ siv(x).
4. $\forall x$ petkotnik(x).
5. $\exists x(\neg \text{bel}(x))$.
6. $\forall x(\neg \text{bel}(x))$.
7. $\forall x(\neg \text{petkotnik}(x))$.
8. $\exists x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

16.

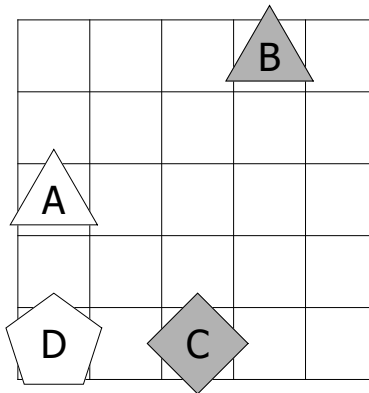
1. $\forall x$ petkotnik(x).
2. $\exists x$ kvadrat(x).
3. $\forall x$ petkotnik(x).
4. $\exists x$ trikotnik(x).
5. $\forall x(\neg \text{siv}(x))$.
6. $\exists x(\neg \text{kvadrat}(x))$.
7. $\forall x(\neg \text{siv}(x))$.
8. $\exists x(\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

17.

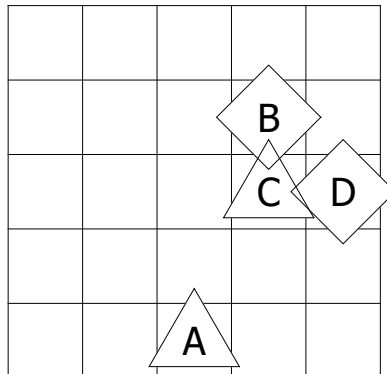
1. $\exists x \text{ kvadrat}(x)$.
2. $\forall x \text{ trikotnik}(x)$.
3. $\forall x \text{ siv}(x)$.
4. $\forall x \text{ petkotnik}(x)$.
5. $\exists x(\neg \text{trikotnik}(x))$.
6. $\exists x(\neg \text{kvadrat}(x))$.
7. $\forall x(\neg \text{siv}(x))$.
8. $\exists x(\neg \text{bel}(x))$.



1	2	3	4	5	6	7	8

18.

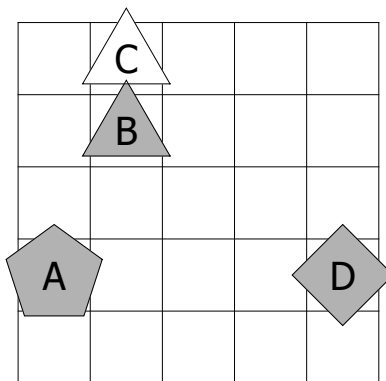
1. $\exists x \text{ bel}(x)$.
2. $\exists x \text{ siv}(x)$.
3. $\forall x \text{ trikotnik}(x)$.
4. $\forall x \text{ kvadrat}(x)$.
5. $\exists x(\neg \text{bel}(x))$.
6. $\forall x(\neg \text{petkotnik}(x))$.
7. $\exists x(\neg \text{siv}(x))$.
8. $\exists x(\neg \text{petkotnik}(x))$.



1	2	3	4	5	6	7	8

19.

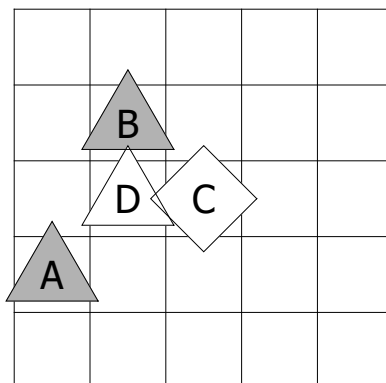
1. $\forall x \text{ siv}(x)$.
2. $\exists x \text{ siv}(x)$.
3. $\forall x \text{ siv}(x)$.
4. $\exists x \text{ petkotnik}(x)$.
5. $\exists x (\neg \text{trikotnik}(x))$.
6. $\exists x (\neg \text{siv}(x))$.
7. $\forall x (\neg \text{kvadrat}(x))$.
8. $\exists x (\neg \text{petkotnik}(x))$.



1	2	3	4	5	6	7	8

20.

1. $\exists x \text{ kvadrat}(x)$.
2. $\exists x \text{ trikotnik}(x)$.
3. $\forall x \text{ petkotnik}(x)$.
4. $\exists x \text{ kvadrat}(x)$.
5. $\exists x (\neg \text{kvadrat}(x))$.
6. $\forall x (\neg \text{petkotnik}(x))$.
7. $\forall x (\neg \text{bel}(x))$.
8. $\forall x (\neg \text{trikotnik}(x))$.



1	2	3	4	5	6	7	8

1.

1	2	3	4	5	6	7	8
N	N	N	R	R	R	N	N

2.

1	2	3	4	5	6	7	8
R	N	R	N	N	N	N	R

3.

1	2	3	4	5	6	7	8
R	N	N	N	R	N	R	R

4.

1	2	3	4	5	6	7	8
N	N	R	R	N	N	N	N

5.

1	2	3	4	5	6	7	8
N	N	R	N	R	N	N	R

6.

1	2	3	4	5	6	7	8
R	R	R	N	R	R	R	R

7.

1	2	3	4	5	6	7	8
R	N	N	N	R	N	R	N

8.

1	2	3	4	5	6	7	8
R	N	N	R	R	R	N	R

9.

1	2	3	4	5	6	7	8
N	R	R	R	R	R	R	N

10.

1	2	3	4	5	6	7	8
N	N	N	R	N	N	N	R

11.

1	2	3	4	5	6	7	8
N	R	N	R	N	R	R	R

12.

1	2	3	4	5	6	7	8
N	N	N	N	N	N	R	N

13.

1	2	3	4	5	6	7	8
N	N	N	N	N	R	N	R

14.

1	2	3	4	5	6	7	8
N	R	R	R	R	R	N	R

15.

1	2	3	4	5	6	7	8
N	N	R	N	R	R	N	R

16.

1	2	3	4	5	6	7	8
N	R	N	R	N	R	N	R

17.

1	2	3	4	5	6	7	8
R	N	N	N	R	R	N	R

18.

1	2	3	4	5	6	7	8
R	N	N	N	N	R	R	R

19.

1	2	3	4	5	6	7	8
N	R	N	R	R	R	N	R

20.

1	2	3	4	5	6	7	8
R	R	N	R	R	R	N	N

Referenca : First - Order Logic Test from the Wolfram Demonstrations Project
<http://demonstrations.wolfram.com/FirstOrderLogicTest/> / Contributed by : Izidor Hafner
 Based on an idea by : Jon Barwise and John Etchemendy