

Лабораториска вежба 3А

1. Find the predicates and their clauses

$P = (\text{age} > 65 \parallel \text{isHighRisk}) \ \&\& \ \text{weight} < 50 \ \&\& \ !\text{hasAllergy}$

Clause 1: $(\text{age} > 65 \parallel \text{isHighRisk})$

Clause 1.1: $\text{age} > 65$

Clause 1.2: isHighRisk

Clause 2: $\text{weight} < 50$

Clause 3: $!\text{hasAllergy}$

2. Write the appropriate truth tables for the predicates expressed through the clauses, also determining for each clause whether it is active in each row.

$X: \text{age} > 65 \mid Y: \text{isHighRisk} \mid Z: \text{weight} < 50 \mid W: !\text{hasAllergy}$

$(X \parallel Y) \ \&\& \ Z \ \&\& \ W$

Row	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>W</i>	<i>P</i>	<i>X</i> active	<i>Y</i> active	<i>Z</i> active	<i>W</i> active
1	T	T	T	T	T	F	F	T	T
2	T	T	T	F	F	F	F	F	T
3	T	T	F	T	F	F	F	T	F
4	T	T	F	F	F	F	F	F	F
5	T	F	T	T	T	T	F	T	T
6	T	F	T	F	F	F	F	F	T
7	T	F	F	T	F	F	F	T	F
8	T	F	F	F	F	F	F	F	F
9	F	T	T	T	T	F	T	T	T
10	F	T	T	F	F	F	F	F	T
11	F	T	F	T	F	F	F	T	F
12	F	T	F	F	F	F	F	F	F
13	F	F	T	T	F	T	T	F	F
14	F	F	T	F	F	F	F	F	F
15	F	F	F	T	F	F	F	F	F
16	F	F	F	F	F	F	F	F	F

3. Find TRs for the following coverage: GACC, RACC

GACC

X: (5,13)

Y: (9,13)

Z: (1,3), (1,7), (1,11), (5,3), (5,7), (5,11), (9,3), (9,7), (9,11)

W: (1,2), (1,6), (1,10), (5,2), (5,6), (5,10), (9,2), (9,6), (9,10)

RACC

X: (5,13)

Y: (9,13)

Z: (1,3), (5,7), (9,11)

W: (1,2), (5,6), (9,10)