

Answers to Queries Exercises

Suppose a program has the following answer sets:

$$A_1 = \{p(a), p(b), q(b), \neg s(a)\}$$

$$A_2 = \{q(b), r(a), \neg s(a)\}$$

How would it answer the following queries?

1. $s(a)$
2. $r(a)$
3. $\neg s(b)$
4. $q(b) \wedge \neg s(a)$
5. $q(b) \wedge p(a)$
6. $\neg q(b) \wedge p(a)$
7. $p(a) \vee r(a)$
8. $\neg p(a) \vee \neg s(a)$
9. $p(a) \vee p(b)$
10. $\neg q(b) \vee s(a)$