

ANSWERS TO THE QUESTIONS ARE HIGHLIGHTED IN GREEN

1- Which answer option is a correct statement about the following ASP program (in **Problem 1**)?

p
 $r \leftarrow \neg p, q$

- ☒ This ASP program has exactly 1 stable model.
- ☐ This ASP program is a non-definite program.
- ☐ This ASP program is NOT a positive program.
- ☐ This ASP program is unsatisfiable under propositional logic.

2. Which answer option is a correct statement about the following ASP program (in **Problem 2**)?

$p \leftarrow q$
 $q \leftarrow \neg p$

- ☒ This ASP program is an unsatisfiable program.
- ☐ This ASP program has one stable model.
- ☐ This ASP program is a positive program.
- ☐ This ASP program has no stable model but is satisfiable under propositional logic.

3. Which answer option is a correct statement about the following ASP program (in **Problem 3**)?

$p \leftarrow p$
 $p \vee q$

- ☐ The critical part of the propositional rule in the ASP program is the “p” in the body of the first rule.
- ☐ This ASP program has exactly 1 stable model and is satisfiable under propositional logic.
- ☒ This ASP program has exactly 2 stable models.
- ☐ This ASP program is a definite program.