Break & Quiz

Q 1.1: Suppose P is false, Q is true, and R is true. Does this assignment satisfy

(i)   ¬(¬p → ¬q) ∧ r

(ii)   (¬p ∨ ¬q) → (p ∨ ¬r)

- A. Both
- B. Neither
- C. Just (i)
- D. Just (ii)

Break & Quiz

Q 1.2: Let A ="Aldo is Italian" and B ="Bob is English". Formalize "Aldo is Italian or if Aldo isn't Italian then Bob is English".

- a. A ∨ (¬A → B)
- b. A ∨ B
- c. A ∨ (A → B)
- d. A → B

Break & Quiz

Q 1.3: How many different assignments can there be to $(x_1 \wedge y_1) \vee (x_2 \wedge y_2) \vee \ldots \vee (x_n \wedge y_n)$

- A. 2
- B. 2^n
- C. 2^{2n}
- D. 2n

Break & Quiz

Q 2.1: What is the CNF for (¬p ∧ ¬(p ⇒ q))

- A. (¬p ∧ ¬(p ⇒ q))
- B. (¬p) ∧ (¬p ∨ ¬q)
- C. (¬p ∨ q) ∧ (p ∨ ¬q) ∧ (p ∨ q)
- D. (¬p ∨ ¬q) ∧ (¬p ∨ q) ∧ (p ∨ ¬q) ∧ (p ∨ q)

Break & Quiz

Q 2.2: Which has more rows: a truth table on n symbols, or a joint distribution table on n binary random variables?

- A. Truth table
- B. Distribution
- C. Same size
- D. It depends