American Computer Science League

Contest #2

Intermediate Division

1. Prefix/Infix/Postfix

Convert this infix expression into a postfix expression.

$$\frac{A^2 \left(B+C\right)}{A-C} + \frac{A+B}{C^2}$$

2. Prefix/Infix/Postfix

Evaluate this following prefix expression. All numbers are single digits.

3. Bit-String Flicking

Evaluate the following expression:

(NOT (10010 OR NOT 10011 AND 11011))

4. Bit-String Flicking

Evaluate the following expression:

((LSHIFT - 2 01101) OR 01011 AND (RCIRC - 3 11011))

5. LISP

Evaluate the following LISP expression:

(ADD (MULT 25) (EXP 32) (SUB 4 (DIV 62)))