

Assignment - 3

Q3] Convert following examples from infix to prefix and postfix.

1) $k + l - m * n + (o^p) * w / u / v * t + q$

Prefix -

$q + t * v * u / w / p o ^ + * + n m * + l - k +$

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Postfix -

$k l + m n * - o p ^ w * u / v / t * + q +$
 $k + l - m * n + o p ^ * w / u / v * t + q$
 $k + l - m n * + o p ^ w * / u / v * t + q$
 $k + l - m n * + o p ^ w * u / / v * t + q$
 $k + l - m n * + o p ^ w * u / v / * t + q$
 $k + l - m n * + o p ^ w * u / v / t * + q$
 $k l + - m n * + o p ^ w * u / v / t * q +$
 $k l + m n * - o p ^ w * u / v / t * + q +$

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$$2) (A+B) * C - (D-E) * (F+G)$$

Prefix -

$$- * + A B C - D E + F G$$

$$(+AB) * C - (-DE) * (+FG)$$

$$* + A B C - * (-DE) + F G$$

$$- * + A B C * - D E + F G$$

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Postfix -

$$A B + C * D E - F G + * -$$

$$(A B +) * C - (D E -) * (F G +)$$

$$A B + C * - D E - F G +$$

$$A B + C * - D E - F G + *$$

$$A B + C * D E - F G + * -$$

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