CS 271 Computer Architecture and Assembly Language

Self-Check for Lecture#16

Solutions are posted

1. Convert the following infix expressions to RPN:

a. (a + b) - (c + d) * e

b. a + b * c - d * e / f + h

- 2. Convert the following postfix expressions to infix:
 - a. abc+d*+
 - b. ab+cd/e*f/+g-h*
- 3. Let a = 5, b = 7, c = 4, d = 2, e = 3, f = 1, g = 6. Evaluate the following RPN expressions:

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a. ab+c-d*
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- b. ab+c+de*f/g-*
- 4. Implement the statement $G = (A + B \times C) / (D E \times F)$ in the IA-32 floating-point unit. It's not necessary to write a complete program or procedure ... just write an FPU code fragment.