- 1. Describe a situation when the arithmetical 'add' operator in a programming language would not be commutative.
- 2. Describe a situation when the arithmetical 'add' operator in a programming language would not be associative.
- 3. Consider the following C program:

```
int fun(int *i) {
    *i += 5;
    return 4;
}

void main() {
    int x = 3;
    x = x + fun(&x);
}
```

What is the value of x after the assignment statement in main, assuming

- a. operands are evaluated left to right.
- b. operands are evaluated right to left.