Problem FC-1 (2 parts)  

Flow Control  

Part A: Draw the control flow graph corresponding to the following C code fragment. Be sure to draw the control flow determined by the compound predicate and the break.

```c
do {
    C = getc(FP);
    D = foo(C);
    if (C != 0 && (D/C < 100))
        D += C;
    else if (C > 105) {
        D = 0;
        break;
    } else
        D++;
} while (C != EOF);
Print_Stats(D);
```

Part B: Write a single C statement that corresponds to the following MIPS code. Assume $1$ holds A, $2$ holds B, $3$ holds C, and $4$ holds D. *Do not use an if-then-else.*

```mips
bne $3, $0, Set
bne $1, $0, Reset
beq $2, $0, Reset
Set: addi $4, $0, 1
    j Continue
Reset: addi $4, $0, 0
Continue: ...
```