

### Quiz #3

1. Develop a flow chart, given two positive integers  $x$  and  $y$ , to compute  $x \bmod y$

2. Write a C-language program which uses a function:

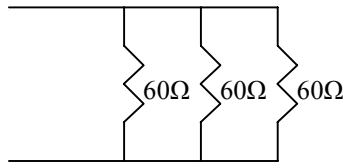
```
int x_mod_y( int x, int y)
```

to implement the flow chart you developed in question 1, above.

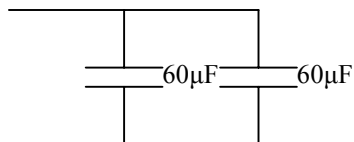
Test your program (and print results) for the following three cases:

i)  $2 \bmod 2$  ; ii)  $25 \bmod 6$  ; iii)  $19 \bmod 24$

3. Determine the equivalent (total) resistance of the following set of resistors.



4. Determine the equivalent (total) capacitance of the following set of capacitors.



5. Determine the equivalent (total) inductance of the following set of inductors.

