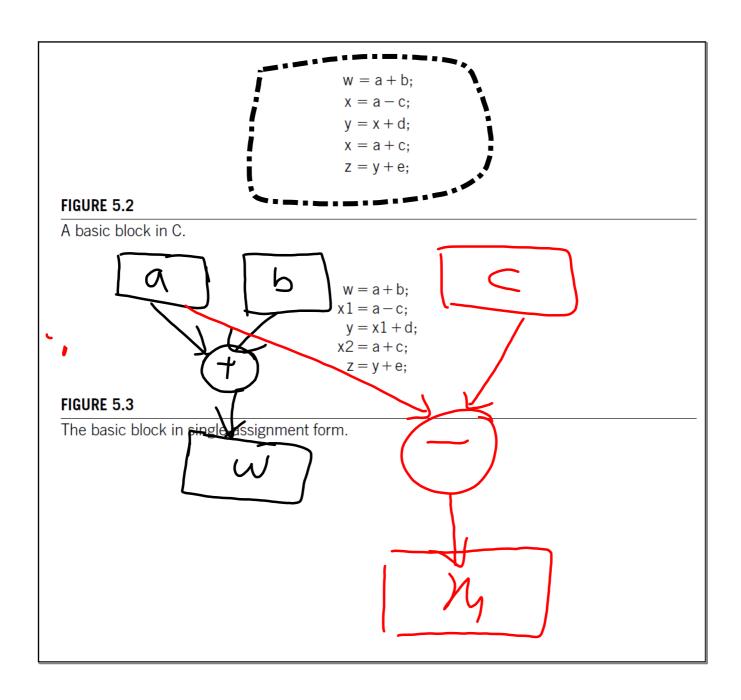
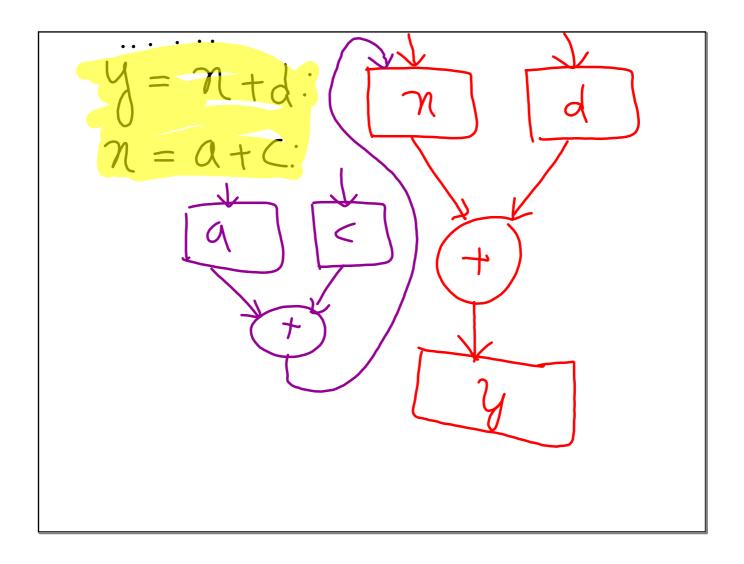
Unit 2 Embedded Programs and Tools Models of Program

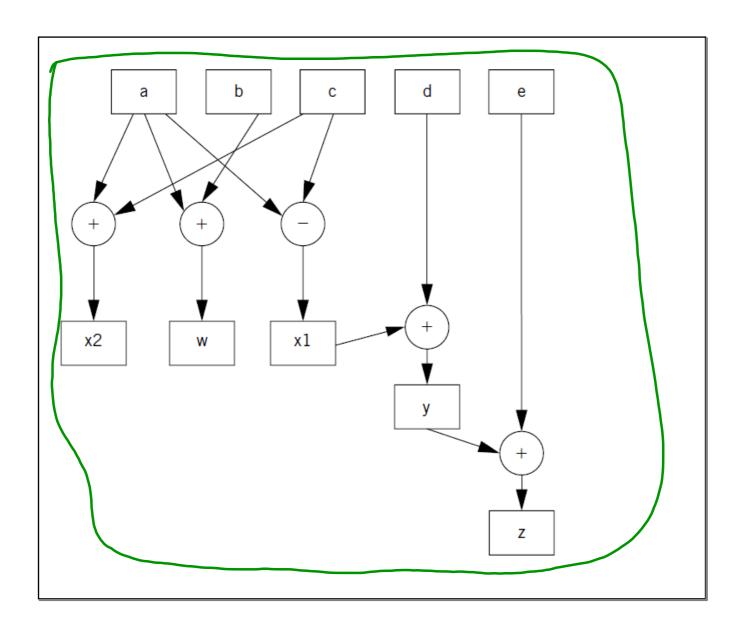
Embedded code must not only provide rich functionality, it must also often run at a required rate to meet system deadlines, fit into the allowed amount of memory, and meet power consumption requirements.

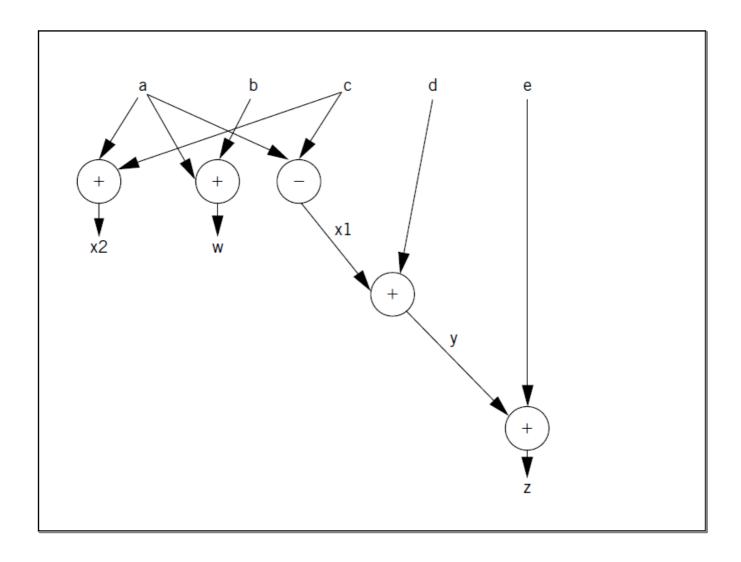
Designing code that simultaneously meets multiple design constraints is a considerable challenge, but luckily there are techniques and tools that we can use to help us through the design process.

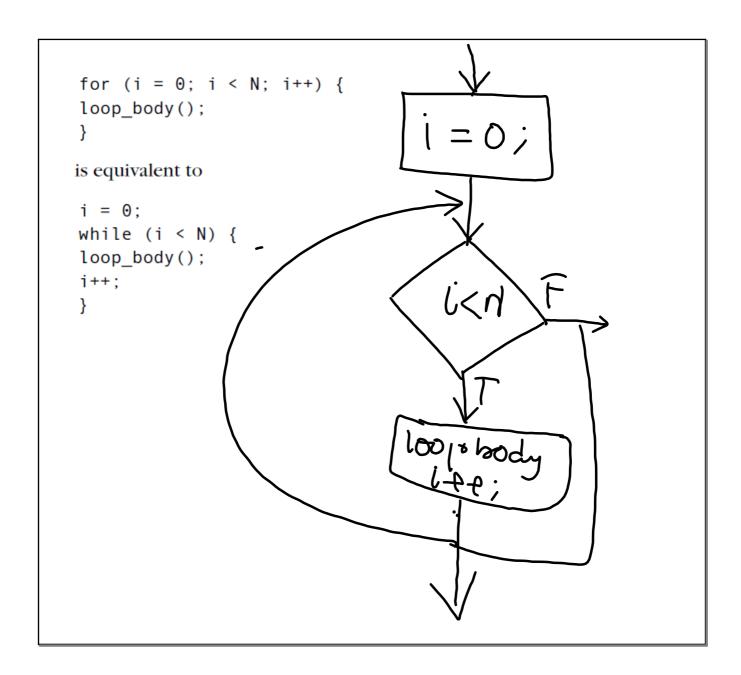
We can also build a CDFG for an assembly language program.

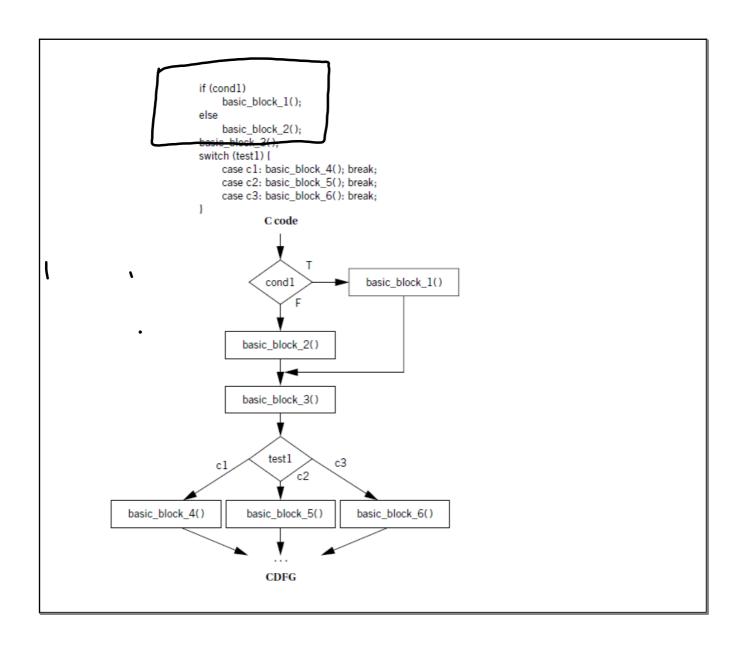


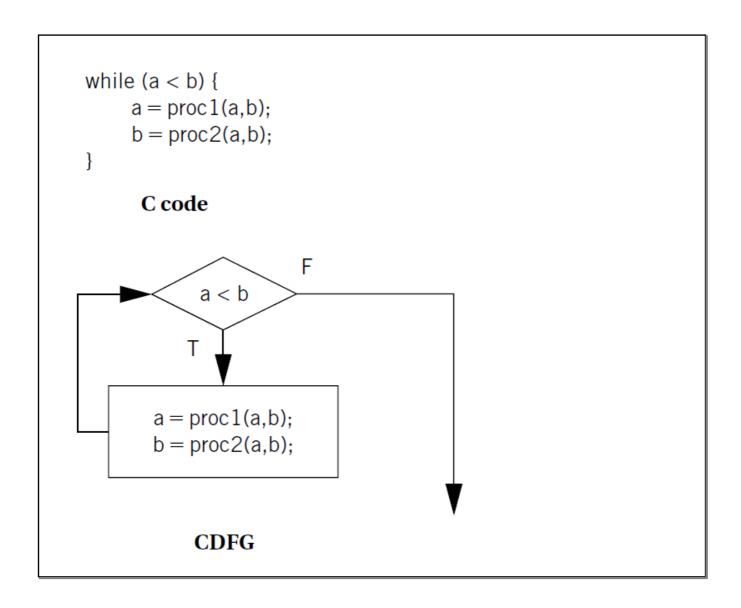


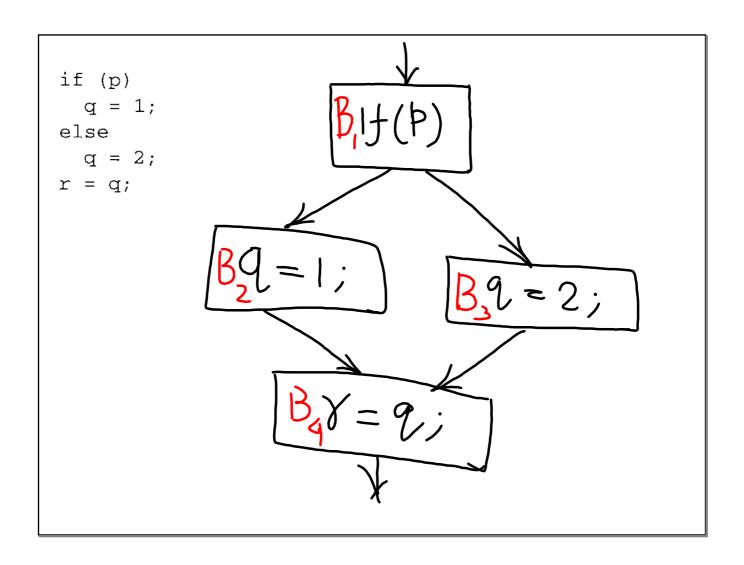


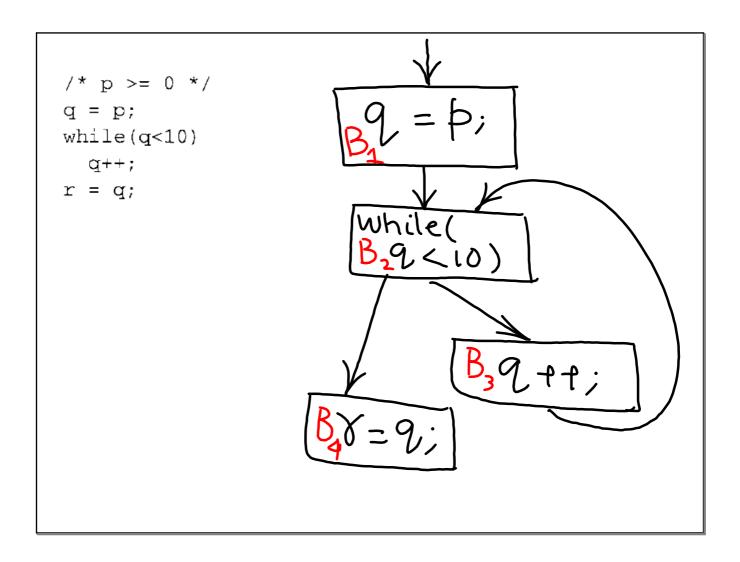






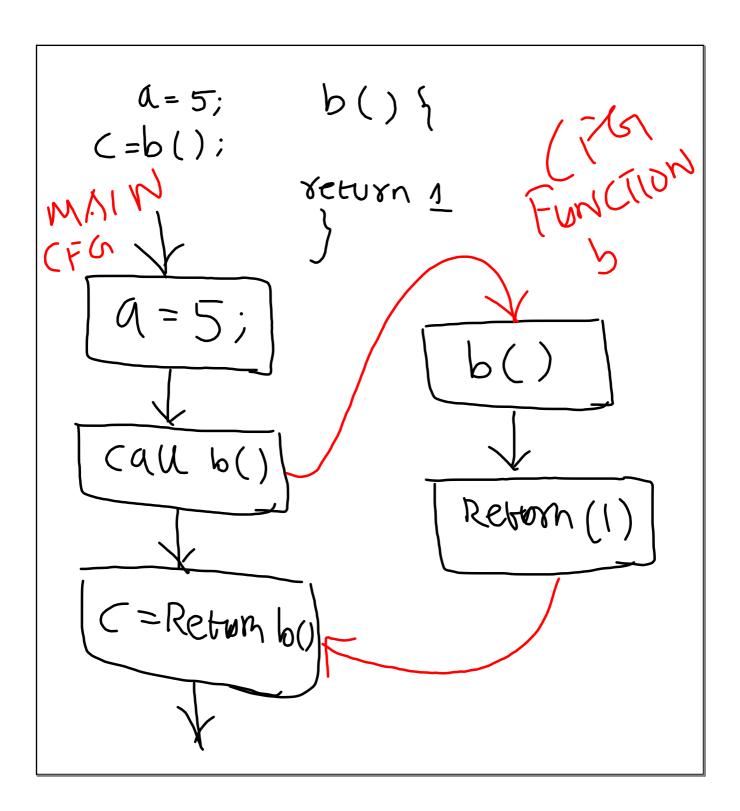


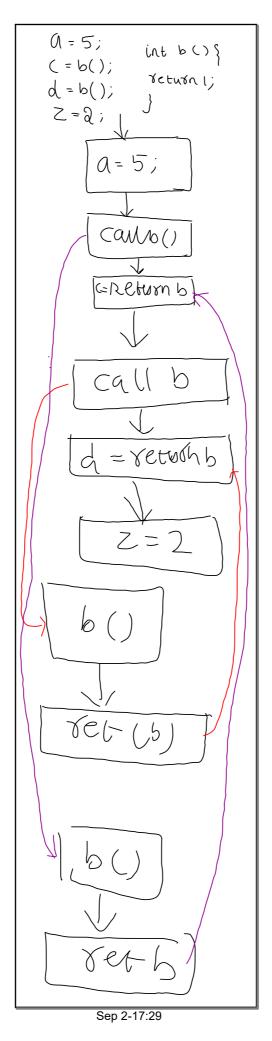




```
i = 10;
store(i);
n = 2*i;
store(n);

void store(int i)
{
    ...
}
```





$$A = 5;$$
 Int b(int a) $S = b(a);$ $A = 10;$ $S = b(a);$ $S = b(a)$

