FlowCharts
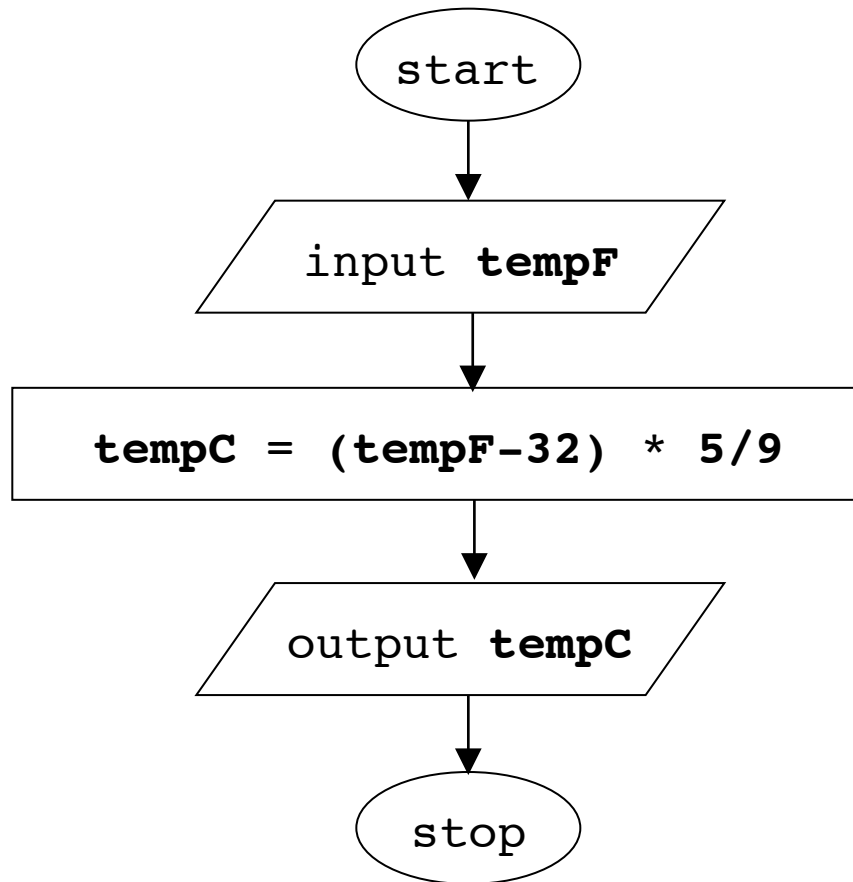
Solutions to Laboratory problems

Claudia Lugo 2011
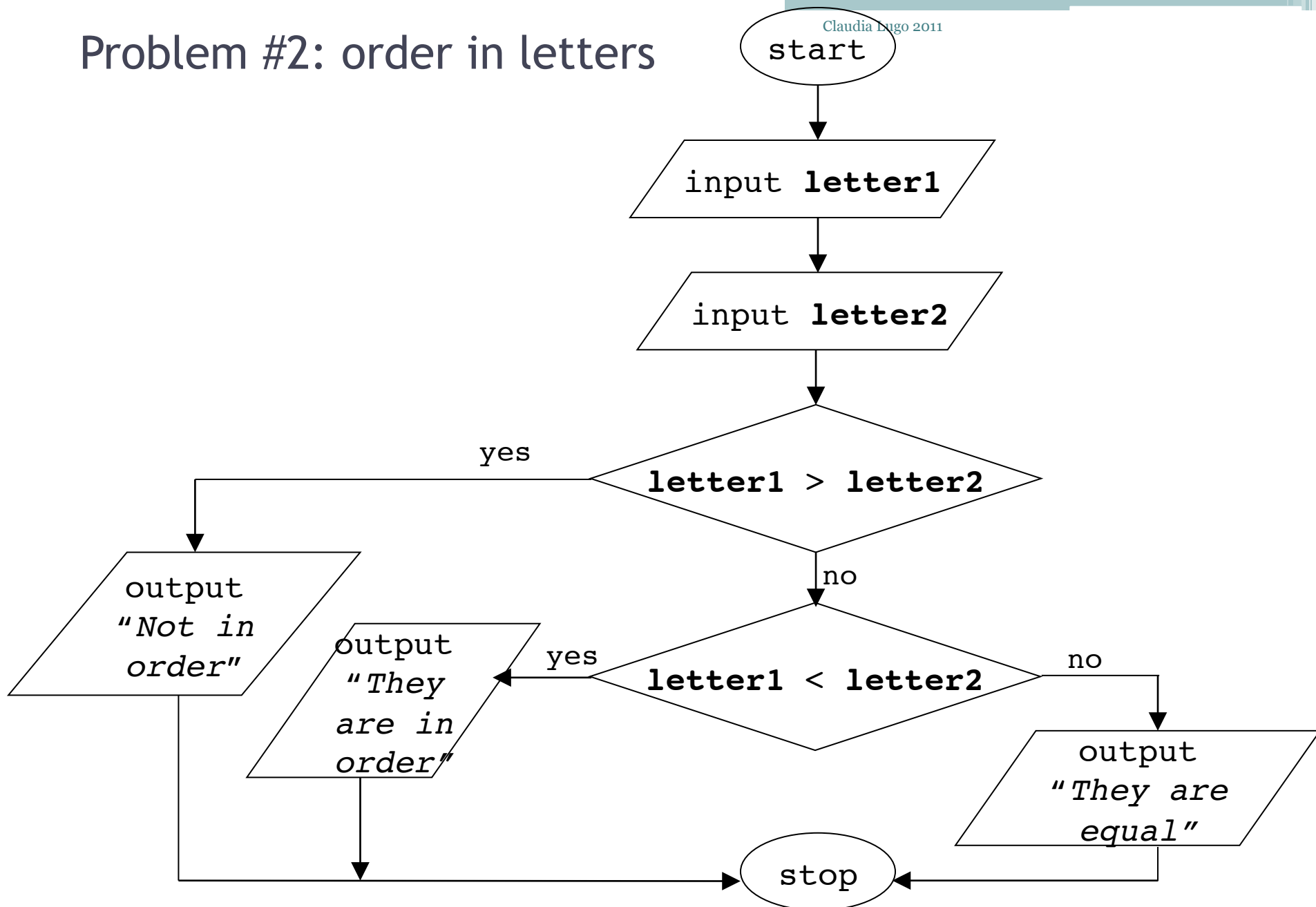
Problem #1: Convert ºF to ºC

Problem #2: order in letters

```
start
```

↓

input **letter1**

↓

input **letter2**

↓

letter1 > letter2

— yes → output "*Not in order*"

no ↓

letter1 < letter2

yes → output "*They are in order*"

no → output "*They are equal*"

stop

Problem #3: Convert quartes and dimes to dollars
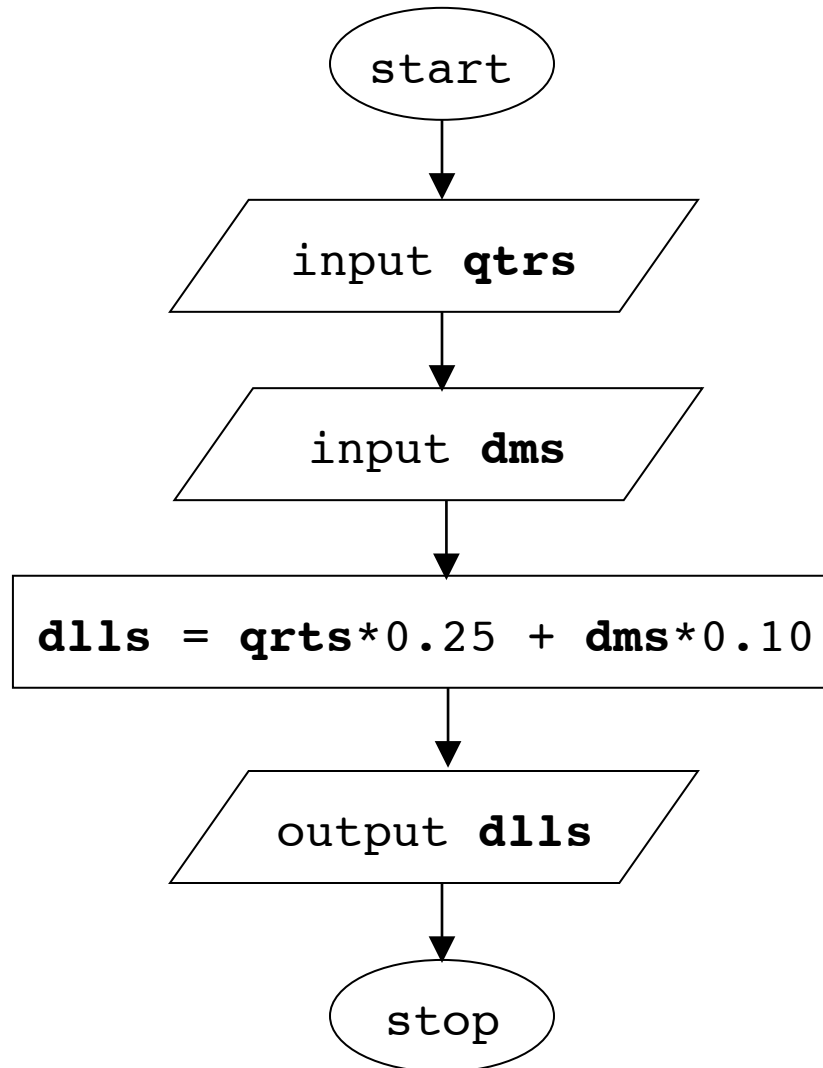
Problem #4: Display 1 to 50

start

n = 1

no

n<=50

yes

output **n**

n = **n** + 1

output **"bye"**

stop
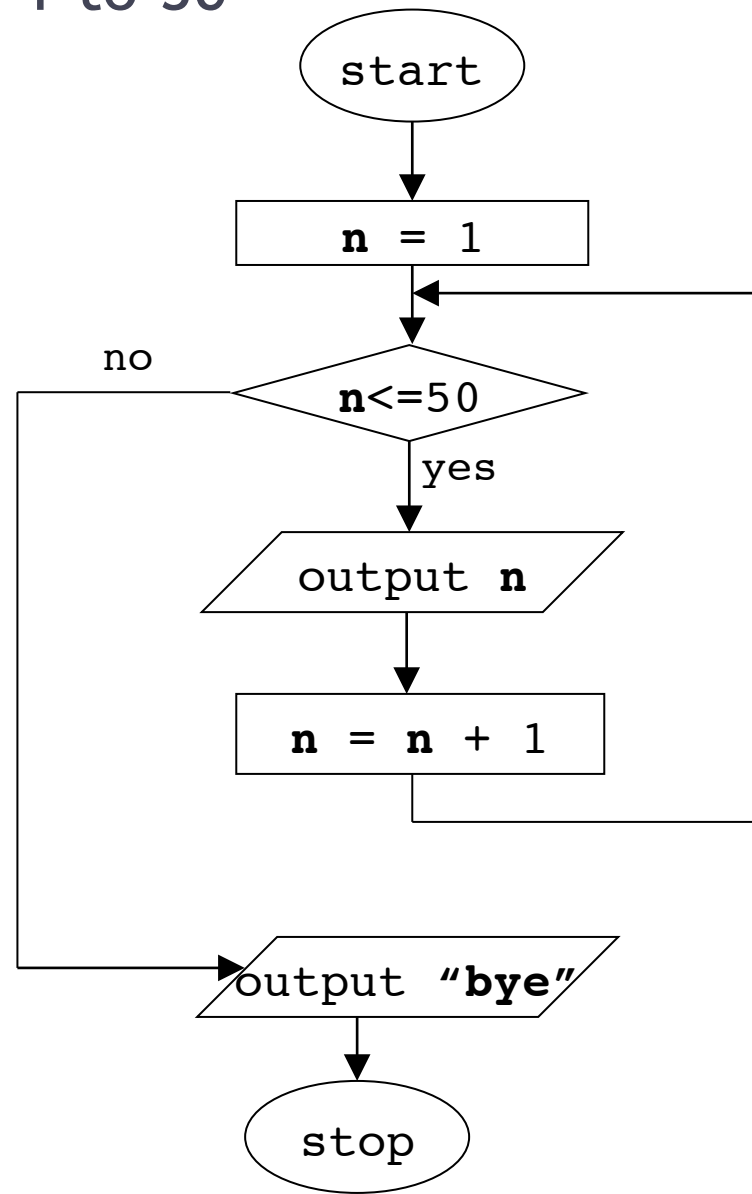
Problem #5: Display 50 to 0
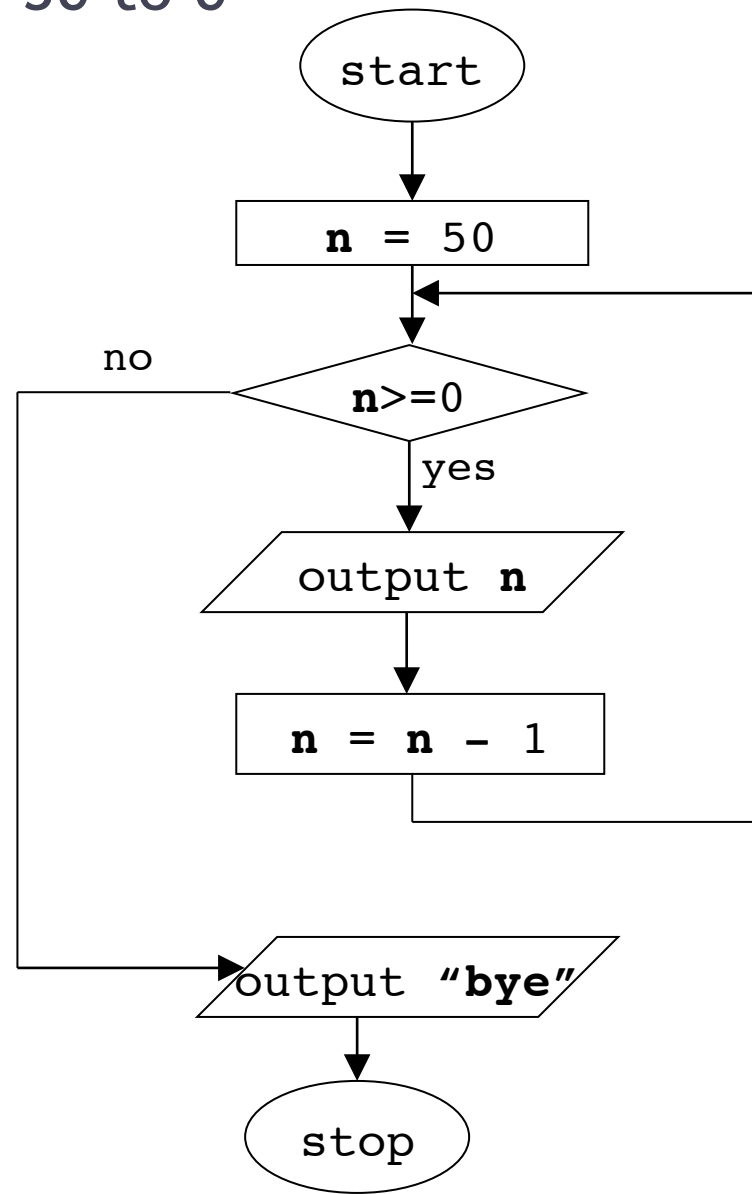
Problem #6: Print and sum 3,6,9 ... 30

start

n = 3

sum = 0

n<=30

no

yes

output n

sum = sum + n

n = n + 3

output sum

stop
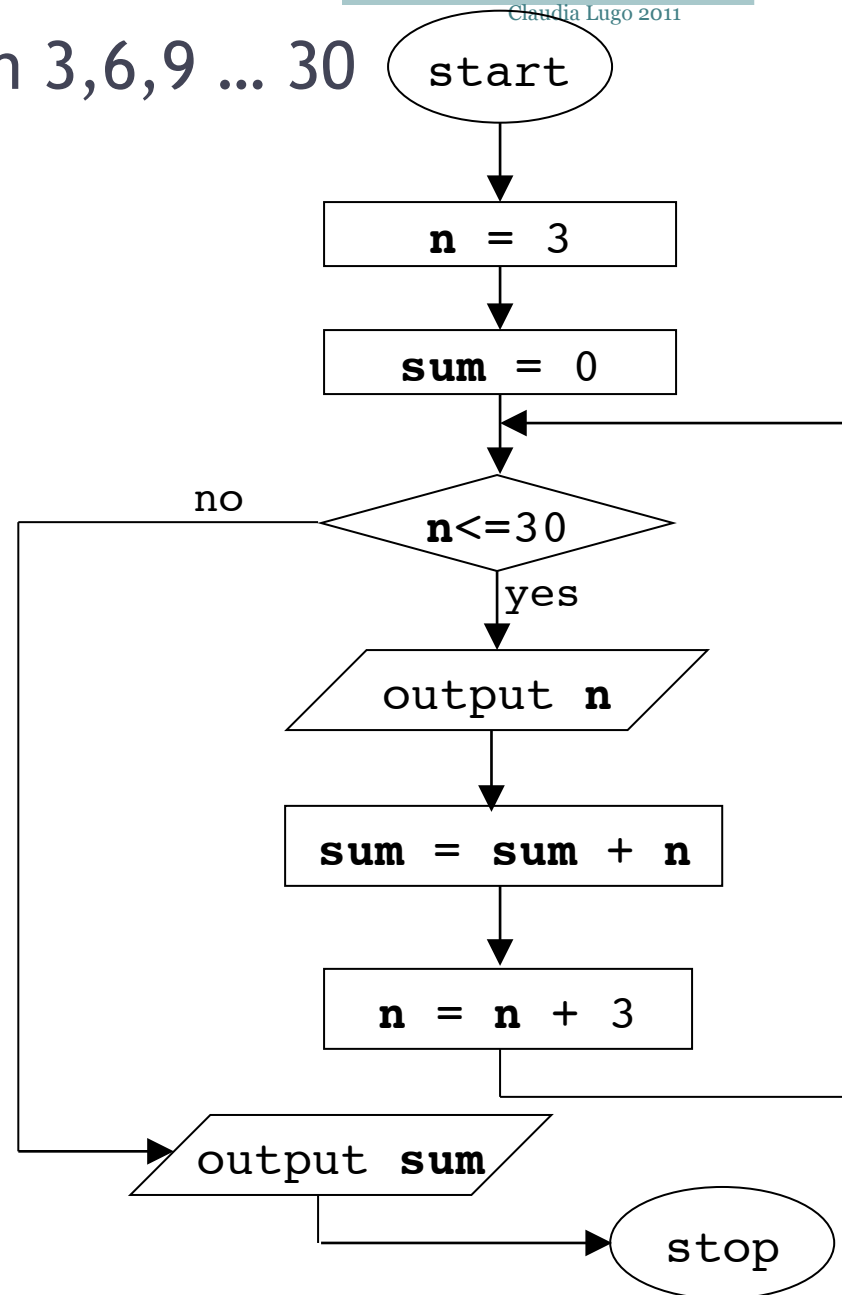
Problem #7: Factorial of a positive

```
        start
          │
          ▼
     ┌──────────┐
    / input n  /
   └──────────┘
          │
          ▼
   ┌──────────────┐
   │  fact = 1    │
   └──────────────┘
          │
          ▼
no     ◇ n>=1 ◇ ◄──────────┐
◄──────           │         │
│            yes │         │
│                ▼         │
│      ┌──────────────────┐│
│      │ fact = fact * n  ││
│      └──────────────────┘│
│                │         │
│                ▼         │
│      ┌──────────────────┐│
│      │   n = n – 1      ││
│      └──────────────────┘│
│                │         │
│                └─────────┘
▼
/ output fact /
          │
          ▼
        stop
```