# Chosen Approach - 2 Filters

```
Source                Remove Filters      AltitudeFilter      TemperatureFilter      Sink
(reading from                             (converts altitude  (converts              (prints selected data
FlighData.dat)                            in feet to altitude  temperature in        to Output.dat)
                                          in meters)          farenheit to celsius)
```
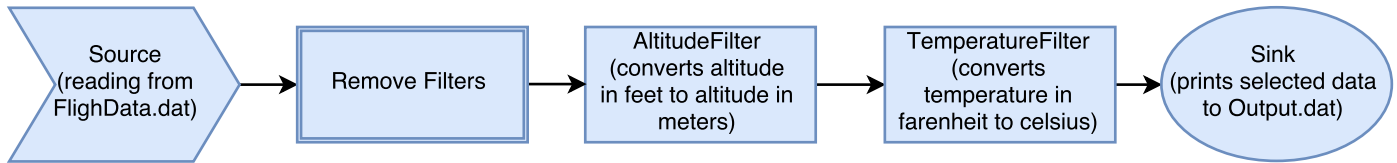
# Alternative Approach - 1 Filter

```
Source                Altitude and Pressure Filter            Sink
(reading from         (converts altitude in feet to meters    (prints selected data
FlighData.dat)        and temperature in farenheit to         to Output.dat)
                      celsius in the same filter)
```
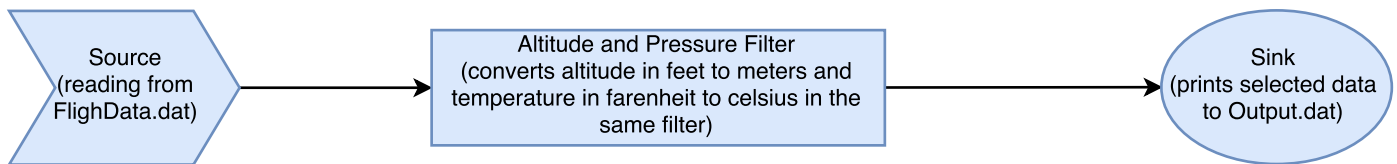
# Alternative Approach - No Filter

```
Source                                                        Sink
(reading from                                                 (before printing selected data to Output.dat,
FlighData.dat)                                                converts the temperature to celsius and the
                                                              altitude to meters)
```
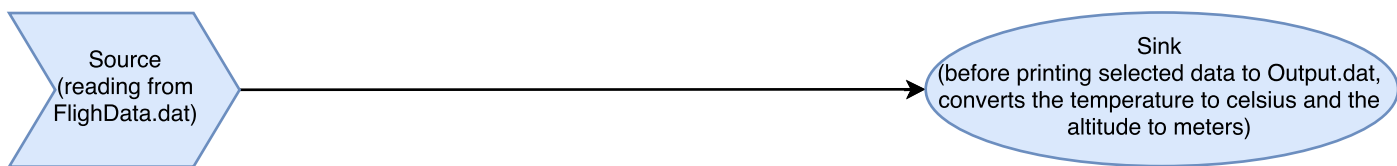
**Important Keywords when making Decisions:**

- "Flexible software"
- "(...) it is of the utmost importance to ensure that the system is highly and easily reconfigurable (...)"
- "The system will also have to perform well and process the data as quickly as possible"
- "All filter networks must start with a source"
- "All filter networks must end in a sink"
- "On each system, you should continue to use the pipe-and-filter style as much as possible"

# Notation Used

| **Source** | **System composed by more than 1 filter** | **Middle Filter** | **Sink** |