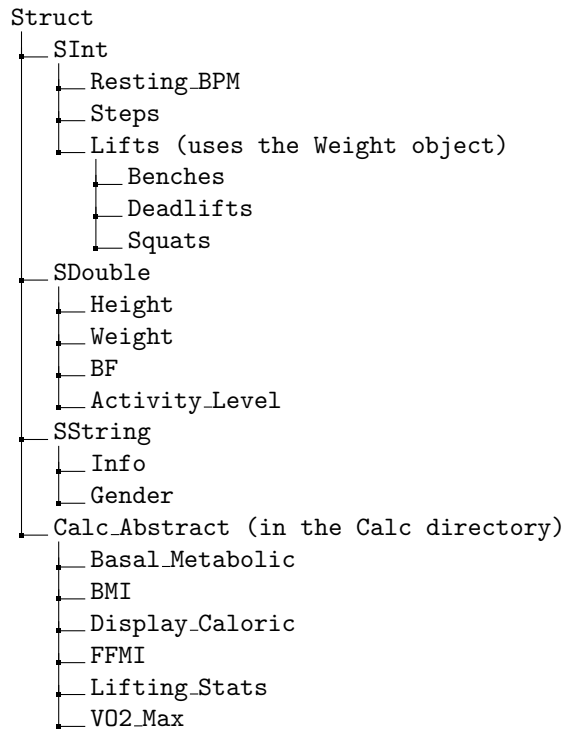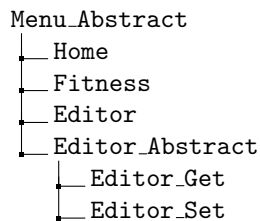# 1 Class Diagram

There are two major abstract classes that are inherited by the majority of the smaller classes, either abstract or public.

1.1 Struct

```
Struct
├──SInt
│  ├──Resting_BPM
│  ├──Steps
│  └──Lifts (uses the Weight object)
│     ├──Benches
│     ├──Deadlifts
│     └──Squats
├──SDouble
│  ├──Height
│  ├──Weight
│  ├──BF
│  └──Activity_Level
├──SString
│  ├──Info
│  └──Gender
└──Calc_Abstract (in the Calc directory)
   ├──Basal_Metabolic
   ├──BMI
   ├──Display_Caloric
   ├──FFMI
   ├──Lifting_Stats
   └──VO2_Max
```

1.2 Menu_Abstract

```
Menu_Abstract
├──Home
├──Fitness
├──Editor
└──Editor_Abstract
   ├──Editor_Get
   └──Editor_Set
```

1.3 Independent Classes

The following classes are independent, and thus do not inherit any of the above two classes:

- `UserData.java`

- `UserData_Tools.java`

- `Main.java`

- `Menu_Entry.java`