Obtaining an lx mx schedule from a matrix

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It is possible to obtain 1x and mx schedules from matrix population models using the methods described by Caswell (2001).

Load the data:

```
load("COMADRE_v.1.0.0.RData")
```

Next, query the metadata part of comadre to identify the location of the desired data using the command which in a conditional search:

```
id <- which(comadre$metadata$SpeciesAccepted == "Lepus_americanus")
id</pre>
```

```
> [1] 958 959 960 961 962 963
```

The code to do the mathematics is available at our GitHub site.

You will first need to load the devtools library, and also MASS since the function calls functions in MASS:

```
library(devtools)
library(MASS)
```

Now load the required functions:

```
source_url("https://raw.githubusercontent.com/jonesor/compadreDB/master/Functions/makeLifeTable.R")
```

SHA-1 hash of file is e4c670fb6b1c0a7b4a778eb3e88a1c6780069335

Let's pick the first of the list obtained above:

```
lt1 <- makeLifeTable(matU = comadre$mat[[id[1]]]$matU, matF = comadre$mat[[id[1]]]$matF ,startLife =
lt1</pre>
```