Learn Physics with Functional Programming

Scott N. Walck

Chapter 5: Exercises

Graham Strickland

October 23, 2024

5.4 We have the function

which returns a list containing all the integers between the argument (inclusive) and 0 in increasing order, i.e, $\operatorname{range}(2) = 0, 1, 2$, $\operatorname{range}(-4) = -4, -3, \ldots, 0$, and $\operatorname{range}(0) = 0$.

We demonstrate as follows:

```
ghci> range (-4)

[-4,-3,-2,-1,0]

ghci> range 2

[0,1,2]

ghci> range (-4)

[-4,-3,-2,-1,0]

ghci> range 0

[0]
```