

DaigleInClassLab_Wk5D3.R

2011home

Fri Feb 16 17:13:44 2018

```
## Chris Daigle
## In class Lab: Wk5D3 ####
```

```
# Exercise 1 ####
```

```
linkedin <- c(16, 9, 13, 5, 2, 17, 14)
facebook <- c(17, 7, 5, 16, 8, 13, 14)
week <- c("Mon", "Tue", "Wed", "Thu", "Fri", "Sat", "Sun")
names(linkedin) <- week
names(facebook) <- week
```

```
if (mean(linkedin) > mean(facebook)) {
  cat("You are more popular on LinkedIn than on Facebook")
} else if (mean(linkedin) < mean(facebook)) {
  cat("You are more popular on Facebook than on LinkedIn")
}
```

```
## You are more popular on Facebook than on LinkedIn
```

```
# Exercise 2 ####
```

```
li <- 15
fb <- -9
```

```
if ( (li >= 15) & (fb >= 15)) {
  sns <- (li + fb) * 2
} else if ( (li < 10) & (fb < 10)) {
  sns <- (li + fb) / 2
} else {
  sns <- (li + fb)
}
cat(sns)
```

```
## 24
```

```
# Exercise 3 ####
```

```
x <- c(0, 5)
i <- 2
```

```
while (abs(x[i] - x[i-1]) > 0.0001) {
  x[i+1] <- x[i] - ((x[i]-1) ** 3 + (0.5) * x[i] ** 2 - x[i] - 2) / (3 * (x[i] - 1) ** 2 + x[i] - 1)
  i <- i + 1
}
cat("The solution to the equation (x-1)^3 + 0.5*x^(1/2) - x - 2 = 0 is x=", x[i])
```

```
## The solution to the equation (x-1)^3 + 0.5*x^(1/2) - x - 2 = 0 is x= 2.209355
```