Day 2

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Shared

```
commands = read.csv('input', sep=' ', header=FALSE,
                    col.names = c('direction', 'amount'),
                    colClasses = c('character', 'numeric'))
head(commands)
     direction amount
##
## 1
       forward
## 2
          down
## 3
          down
## 4
      forward
                    2
## 5
          down
                    4
## 6
          down
reduce_row = function(acc, row) { do.call(row$direction, list(acc, amount=row$amount)) }
calc_heading = function(...) {
  result = Reduce(f=reduce_row, init=list(...),
                  x=split(commands, seq(nrow(commands))))
  rbind(c(result, result=result$forward * result$depth))
```

Problem 1

```
forward = function (acc, amount) { replace(acc, 'forward', acc$forward + amount) }
down = function (acc, amount) { replace(acc, 'depth', acc$depth + amount) }
up = function (acc, amount) { replace(acc, 'depth', acc$depth - amount) }
calc_heading(forward=0, depth=0)
```

```
## forward depth result
## [1,] 1909 655 1250395
```

Problem 2