Day 5

```
library(stringr)
library(readr)
library(zeallot)
setwd("/Users/saumyasinghal/WebstormProjects/AdventOfCode/aoc2023")
chunks <- str_split(read_file("day5/day5.txt"), "\n\n")[[1]]

map_to_df <- function (m){
  read.table(text = m, skip = 1, header = FALSE,
             col.names = c("destination", "source", "range"))
}
seeds <- as.numeric(strsplit(chunks[1], " ")[[1]][-1])
c(s2s_m, s2f_m, f2w_m, w2l_m, l2t_m, t2h_m, h2l_m) %<-% lapply(chunks[-1], map_to_df)
```

```
create_convert <- function(map.df){
  function(source.num){
    for (row_num in seq_len(nrow(map.df))) {
      row <- map.df[row_num,]
      if (source.num %in% (seq_len(row$range)+row$source-1)){
        return(source.num - row$source + row$destination)
      }
    }
    return(source.num)
  }
}
c(s2s, s2f, f2w, w2l, l2t, t2h, h2l) %<-% lapply(
        list(s2s_m, s2f_m, f2w_m, w2l_m, l2t_m, t2h_m, h2l_m),
        create_convert)
```

```
s2l <- function (s){
  h2l(t2h(l2t(w2l(f2w(s2f(s2s(s)))))))
}

locations <- sapply(seeds, s2l)

print(min(locations))
```