Day 4

Part 1

```
library(stringr)
setwd("/Users/saumyasinghal/PycharmProjects/aoc2023")
lines <- read.delim("day4/day4.txt", sep="\n", header = F)[[1]]</pre>
card_matches <- function (card){</pre>
  winning <- na.omit(as.numeric(str_split(card[,2], " ")[[1]]))</pre>
 losing <- na.omit(as.numeric(str_split(card[,3], " ")[[1]]))</pre>
 length(intersect(winning, losing))
}
grade_card <- function(card){</pre>
 n = card_matches(card)
 if (n==0){
   0
 } else {
   2<sup>(n-1)</sup>
 }
}
sum(sapply(cards, grade_card))
```

[1] 20855

Part 2

[1] 5489600