AOC Day 1

Dr Jeremiah MF Kelly

2024-12-01

Source

```
The source data
tmp <- read.table("~/AoC_2024/day_01/test_1.txt")</pre>
# tmp
dat <- read.table("~/AoC_2024/day_01/source_1.txt")</pre>
# head(dat)
Sort columns,
subtract and sum abs values
tmp[,1] <- sort(tmp[,1])</pre>
tmp[,2] <- sort(tmp[,2])</pre>
res <- (tmp[,1] - tmp[,2])
sum(abs(res))
## [1] 11
tmp[,1] <- sort(tmp[,1])</pre>
tmp[,2] <- sort(tmp[,2])</pre>
res \leftarrow (tmp[,1] - tmp[,2])
sum(abs(res))
## [1] 11
now similarity:
defined as
tmp <- dat
nobs = length(tmp[,1])
out <- numeric(nobs)</pre>
for(ii in 1:nobs){
  foo <- tmp[ii,1]*sum(tmp[ii,1]==tmp[,2])</pre>
  out[ii] <- foo</pre>
  # print(foo)
}
sum(out)
```