# Stat 854 Project: Mirror-match Bootstrap

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## April 14 2024

Introduction

Method

**Experiments** 

**Related Works** 

Conclusion

## **Appendix**

1. First, we pre-process the syc.txt in SAS, where we delete the missing value in numarr and keep only two column variables 'stratum' and 'numarr'.

In addition, PROC FREQ is used to generate frequency counts for the stratum variable. After that, the processed dataset is exported to 'syc\_post.txt'.

#### SAS code

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### SAS output

#### **Overview of Stratum Variable**

#### The FREQ Procedure

stratum				
stratum	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	178	6.93	178	6.93
2	155	6.04	333	12.97
3	327	12.74	660	25.71
4	533	20.76	1193	46.47
5	568	22.13	1761	68.60
6	47	1.83	1808	70.43
7	7	0.27	1815	70.71
8	65	2.53	1880	73.24
9	71	2.77	1951	76.00
10	65	2.53	2016	78.54
11	83	3.23	2099	81.77
12	47	1.83	2146	83.60
13	93	3.62	2239	87.22
14	77	3.00	2316	90.22
15	101	3.93	2417	94.16
16	150	5.84	2567	100.00

SYC Data Preprocessing

### 2. Second, we read in the data in R and compute sampling weights.

```
# Read in the Survey of Youth in Custody
syc <- readr::read_csv(
  file = "data/syc_post.csv", # Tell it where the file is
  col_types = "nn", # Tell it that there are two columns, and they are "numeric" (n)
)
# glimpse the read data set
dplyr::glimpse(syc)</pre>
```

## References