

DATA2020 Final Project Modelling: GLM

Team: Final Project Group 5

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Introduction

```
library(haven)
library(dplyr)
library(purrr)
library(mice)
library(pROC)
library(caret)
library(xtable)
```

In this report, we will use the Generalized Linear Model (GLM) to predict children overall success at the age of 15 for the fragile family data. The data set contains 3113 observations and 13 variables. The dependent variable is the overall success of children at the age of 15, which is a categorical variable. The independent variables include `cm1edu` the mother's education level, `cf1edu` the father's education level, `f2b32` children health level, `m2d2` whether father has conflict with child, `cf3marm` the marital status of the father with mother, `cf3kids` the number of children under 18 in the household, `cf3md_case_lib` whether father meets depression criteria at children 3rd year, `cf4coh` whether father is living with mother at children 5th year, `t4d7` number of kids present with child, `cf1hhinc` the household income, `k5d1f` the amount of time on a weekday children play computer games on the computer or TV, and `k5f1f` whether children hurt an animal on purpose.

Data Preparation

```
data <- read_dta("../data/ff_data_x_preprocessed_v2.dta")
data <- data %>%
  select(c(cf1edu, cm1edu, f2b32, m2d2,
           cf3marm, cf3kids, cf3md_case_lib,
           cf4coh, t4d7, cf1hhinc, k5d1f, k5f1f,
           y_binary))
data <- data %>%
  mutate(across(c(cf3kids, t4d7, cf1hhinc),
                 as.numeric), across(c(cf1edu, cm1edu,
                                       f2b32, m2d2, cf3marm, cf3md_case_lib,
                                       cf4coh, k5d1f, k5f1f, y_binary),
                                       as.factor))
data
```

```
## # A tibble: 3,113 x 13
```

```
##      cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7
##      <fct> <fct> <fct> <fct> <fct>      <dbl> <fct>      <fct> <dbl>
## 1 3      3      <NA> 1      0      0 0      0      NA
## 2 1      1      1      1      <NA>      NA <NA>      0      NA
## 3 3      3      2      1      0      2 0      0      21
## 4 2      2      1      1      0      2 0      0      NA
## 5 2      2      <NA> <NA> <NA>      NA <NA>      <NA>      NA
## 6 2      1      1      1      1      3 0      0      NA
## 7 1      3      <NA> 1      0      1 1      0      NA
## 8 2      3      <NA> <NA> <NA>      NA <NA>      <NA>      20
## 9 2      3      <NA> 1      1      2 1      0      22
## 10 2     3      3      2      0      2 1      0      21
## # i 3,103 more rows
## # i 4 more variables: cf1hhinc <dbl>, k5d1f <fct>, k5f1f <fct>, y_binary <fct>
data_imputed <- mice(data, m = 5, method = 'pmm', seed = 123)
```

```
##
## iter imp variable
## 1 1 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 1 2 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 1 3 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 1 4 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 1 5 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 2 1 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 2 2 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 2 3 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 2 4 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 2 5 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 3 1 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 3 2 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 3 3 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 3 4 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 3 5 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 4 1 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 4 2 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 4 3 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 4 4 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 4 5 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 5 1 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 5 2 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 5 3 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 5 4 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
## 5 5 cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7 cf1hhinc k5d
data_imputed <- complete(data_imputed, 5)
data_imputed
```

```
##      cf1edu cm1edu f2b32 m2d2 cf3marm cf3kids cf3md_case_lib cf4cohms t4d7
## 1      3      3      2      1      0      0      0      0      25
## 2      1      1      1      1      0      0      0      0      22
## 3      3      3      2      1      0      2      0      0      21
## 4      2      2      1      1      0      2      0      0      18
## 5      2      2      1      1      0      0      0      0      18
## 6      2      1      1      1      1      3      0      0      23
```

## 7	1	3	2	1	0	1	1	0	22
## 8	2	3	1	1	1	0	0	0	20
## 9	2	3	1	1	1	2	1	0	22
## 10	2	3	3	2	0	2	1	0	21
## 11	1	3	1	1	1	3	0	0	19
## 12	2	3	1	1	0	0	0	0	14
## 13	3	3	1	1	0	1	0	1	20
## 14	3	3	2	1	1	3	0	0	18
## 15	2	1	2	1	0	0	0	1	26
## 16	4	2	1	1	1	0	1	1	15
## 17	4	4	1	1	1	2	0	0	18
## 18	1	3	2	1	0	4	1	0	22
## 19	1	2	2	1	0	1	0	0	22
## 20	2	2	1	1	0	2	0	1	23
## 21	3	3	1	1	0	0	0	0	22
## 22	2	2	4	1	0	0	1	0	21
## 23	3	3	1	1	0	2	1	0	18
## 24	3	3	3	2	0	5	0	0	24
## 25	2	4	2	1	1	1	0	0	22
## 26	1	1	1	1	1	2	0	0	15
## 27	2	3	3	1	1	3	0	0	16
## 28	2	2	1	1	0	1	0	0	17
## 29	3	3	1	1	0	0	0	0	23
## 30	2	1	1	1	0	0	0	0	22
## 31	1	1	1	1	0	0	0	0	16
## 32	1	1	1	1	0	2	0	0	31
## 33	3	3	1	1	1	2	0	0	24
## 34	2	2	3	2	0	2	0	0	6
## 35	3	3	2	1	0	1	0	0	13
## 36	4	4	1	1	1	0	0	0	22
## 37	1	1	1	1	1	1	0	0	17
## 38	3	3	1	1	1	1	0	0	23
## 39	2	1	1	1	0	0	1	1	23
## 40	2	1	1	1	0	2	0	1	20
## 41	2	3	1	1	0	1	0	0	28
## 42	1	3	1	1	1	3	0	0	25
## 43	1	1	1	1	0	2	0	1	22
## 44	1	2	2	1	1	3	1	0	20
## 45	4	4	1	1	1	1	0	0	23
## 46	1	2	2	1	1	3	0	0	23
## 47	2	1	1	1	0	0	0	0	22
## 48	2	3	1	1	0	0	0	0	23
## 49	4	4	2	1	1	1	0	0	22
## 50	1	1	1	1	1	0	0	0	20
## 51	1	1	1	1	0	4	0	0	21
## 52	4	4	1	1	1	1	0	0	20
## 53	2	1	1	1	0	1	0	0	24
## 54	2	2	4	1	0	1	0	0	17
## 55	1	1	2	1	0	0	0	1	16
## 56	1	1	4	1	1	3	0	0	20
## 57	2	1	3	2	0	1	0	0	18
## 58	3	3	1	1	0	0	0	0	20
## 59	1	1	3	1	1	0	0	0	10
## 60	1	2	1	1	0	2	0	1	22

## 61	2	3	2	1	0	0	0	0	22
## 62	2	2	1	1	0	3	0	0	21
## 63	1	2	1	1	0	4	0	0	18
## 64	1	1	2	1	0	2	0	0	19
## 65	1	2	1	1	0	1	0	0	24
## 66	2	2	1	1	0	0	0	0	13
## 67	2	2	2	1	0	3	0	0	14
## 68	1	2	1	1	1	1	0	0	20
## 69	2	1	1	1	0	0	0	0	16
## 70	2	2	1	1	0	2	0	0	23
## 71	1	2	1	1	0	0	0	0	22
## 72	4	4	2	1	1	1	0	0	22
## 73	2	2	1	1	0	2	0	0	21
## 74	1	1	1	1	0	1	1	0	17
## 75	3	2	3	1	0	0	0	0	21
## 76	2	1	1	1	0	4	0	0	30
## 77	1	3	1	1	0	1	0	0	18
## 78	3	2	1	1	1	1	0	0	21
## 79	2	3	1	1	0	0	0	0	25
## 80	2	3	1	1	0	0	0	1	15
## 81	1	1	1	1	0	4	0	1	24
## 82	2	4	1	1	1	3	0	0	26
## 83	1	2	1	1	0	3	0	1	18
## 84	2	2	1	1	0	2	0	1	15
## 85	1	1	1	1	0	1	0	1	24
## 86	3	1	4	1	0	0	0	0	23
## 87	3	2	2	1	0	0	0	0	19
## 88	3	3	1	1	1	1	0	0	20
## 89	1	2	2	1	0	5	1	0	20
## 90	1	2	1	1	1	3	0	0	15
## 91	1	2	1	1	0	1	0	0	22
## 92	4	4	1	1	1	0	0	0	20
## 93	3	2	1	1	0	0	0	0	18
## 94	3	2	4	1	0	0	1	0	20
## 95	2	1	2	1	0	2	0	0	25
## 96	2	4	2	1	1	0	0	0	24
## 97	1	1	2	1	0	0	0	0	20
## 98	2	2	1	1	0	3	0	0	18
## 99	2	2	1	1	0	2	0	1	6
## 100	1	1	1	1	1	2	0	0	20
## 101	2	2	1	1	0	1	0	0	20
## 102	3	3	1	1	1	2	0	0	21
## 103	4	4	1	1	1	3	0	0	12
## 104	3	3	1	1	0	0	0	0	30
## 105	2	4	2	1	1	2	0	0	12
## 106	2	1	1	1	0	4	0	1	27
## 107	2	1	1	1	0	1	0	0	21
## 108	1	2	1	1	0	0	0	0	20
## 109	3	1	1	1	1	1	0	0	21
## 110	1	1	1	1	0	0	0	1	23
## 111	1	1	3	2	0	2	1	0	20
## 112	1	1	3	1	0	0	0	0	17
## 113	2	2	1	1	0	2	0	0	22
## 114	3	2	4	1	1	2	0	0	20

## 115	1	1	1	1	0	1	1	0	23
## 116	2	1	2	1	1	0	0	0	23
## 117	4	3	1	1	1	1	0	0	8
## 118	4	4	1	1	1	1	0	0	20
## 119	1	2	1	1	0	4	0	1	30
## 120	3	3	1	1	1	0	1	0	17
## 121	2	3	3	1	0	0	0	0	26
## 122	3	3	2	1	0	2	0	1	22
## 123	2	2	1	1	1	0	0	0	24
## 124	2	2	1	1	0	0	1	0	21
## 125	3	3	1	1	1	2	1	0	7
## 126	2	1	1	1	0	1	0	0	15
## 127	3	4	2	1	0	1	1	1	13
## 128	1	2	3	1	0	3	0	1	22
## 129	2	2	1	1	0	0	0	0	18
## 130	3	1	2	1	0	0	0	0	29
## 131	2	3	1	1	0	1	1	1	22
## 132	3	2	2	1	0	3	0	0	27
## 133	1	2	1	1	0	3	1	1	14
## 134	4	4	1	1	1	1	0	0	24
## 135	3	2	1	1	0	0	0	1	18
## 136	3	3	1	1	0	1	0	0	28
## 137	2	2	3	1	0	2	0	1	24
## 138	2	3	1	1	1	0	0	0	17
## 139	2	2	3	1	0	1	0	0	19
## 140	1	3	1	1	0	1	0	1	26
## 141	2	1	1	1	1	2	1	0	20
## 142	1	2	1	1	0	3	1	1	27
## 143	2	2	1	1	0	1	0	0	16
## 144	2	3	1	1	0	0	0	0	19
## 145	3	3	1	1	0	0	0	0	17
## 146	2	1	2	1	0	0	1	0	23
## 147	1	1	3	2	0	3	0	0	21
## 148	1	1	1	1	1	0	0	0	19
## 149	1	2	2	1	0	1	0	0	19
## 150	3	1	1	1	0	1	0	1	29
## 151	2	4	1	1	1	2	0	0	22
## 152	1	2	2	1	0	0	0	0	17
## 153	4	4	1	1	1	3	0	0	21
## 154	1	3	1	1	0	1	1	0	17
## 155	3	2	1	1	0	0	0	0	20
## 156	2	2	1	1	0	2	0	1	22
## 157	3	2	1	1	0	1	0	0	22
## 158	3	2	1	1	1	4	0	0	18
## 159	4	4	1	1	1	2	0	0	16
## 160	2	2	2	1	0	0	0	0	20
## 161	1	2	1	1	1	3	0	0	21
## 162	2	2	2	1	1	3	0	0	28
## 163	2	2	1	1	0	0	0	0	32
## 164	1	2	1	1	0	2	0	0	17
## 165	3	1	4	1	0	2	0	1	27
## 166	2	2	2	1	0	2	0	1	20
## 167	3	2	1	1	0	0	0	1	25
## 168	3	3	3	1	1	1	0	0	17

## 169	4	4	1	1	1	2	1	0	20
## 170	2	1	2	1	1	0	0	0	14
## 171	2	2	3	1	0	4	0	0	19
## 172	2	2	1	1	0	2	1	0	24
## 173	3	4	2	1	0	0	1	0	17
## 174	2	1	1	1	0	1	1	0	15
## 175	2	1	2	1	0	0	0	0	29
## 176	1	1	2	1	0	0	1	0	18
## 177	1	2	1	1	0	2	0	1	13
## 178	4	4	1	1	1	0	0	0	20
## 179	1	1	3	1	0	1	0	1	11
## 180	1	2	1	1	0	2	0	0	19
## 181	2	1	1	1	0	2	0	0	17
## 182	2	3	1	1	0	1	0	0	11
## 183	1	2	1	1	1	2	0	0	33
## 184	4	3	2	1	1	3	0	0	20
## 185	1	2	1	1	0	4	0	1	15
## 186	1	1	2	1	0	1	0	0	27
## 187	2	1	1	1	1	2	0	0	22
## 188	1	2	1	1	1	2	0	0	19
## 189	3	2	5	1	0	2	1	0	28
## 190	1	1	3	1	1	0	1	0	25
## 191	4	4	1	1	1	2	0	0	23
## 192	1	2	2	1	0	3	0	0	25
## 193	1	1	1	1	1	0	0	0	18
## 194	2	1	1	2	0	3	1	0	18
## 195	2	1	3	1	0	0	0	0	15
## 196	2	2	1	1	1	4	0	0	20
## 197	1	1	2	1	0	2	0	1	23
## 198	2	2	1	1	0	2	0	1	20
## 199	2	1	1	1	0	3	0	0	20
## 200	2	2	1	1	1	3	0	0	20
## 201	3	2	1	1	0	3	0	0	9
## 202	3	3	2	1	0	4	1	0	25
## 203	3	3	1	1	0	0	0	0	10
## 204	4	4	2	1	1	2	0	0	19
## 205	3	3	1	1	1	3	0	0	22
## 206	1	1	1	1	1	2	0	0	18
## 207	2	1	1	1	0	6	1	1	22
## 208	3	3	2	1	0	2	0	0	24
## 209	1	1	1	1	0	3	1	0	12
## 210	2	1	2	1	0	4	0	1	16
## 211	2	2	1	1	0	2	0	0	25
## 212	3	4	2	1	0	1	0	0	22
## 213	2	1	2	1	1	5	0	0	25
## 214	4	4	1	1	1	2	0	0	20
## 215	2	1	1	1	0	2	0	1	19
## 216	2	2	3	1	0	1	0	0	15
## 217	1	1	1	1	0	3	0	0	24
## 218	2	1	1	1	0	0	0	0	15
## 219	3	3	3	1	0	2	0	0	24
## 220	3	3	1	1	0	0	0	0	26
## 221	1	1	3	2	0	2	1	0	22
## 222	2	1	3	2	0	3	1	0	25

## 223	3	2	1	1	1	2	0	0	20
## 224	1	2	1	1	0	2	0	0	21
## 225	2	2	1	1	0	1	0	0	20
## 226	2	2	1	1	0	1	0	1	18
## 227	4	4	1	1	1	2	0	0	18
## 228	4	4	1	1	1	1	0	0	30
## 229	4	2	3	1	1	1	0	0	20
## 230	2	3	1	1	1	2	0	0	18
## 231	2	3	2	1	0	1	0	0	27
## 232	3	3	1	1	0	0	0	1	17
## 233	1	2	3	1	0	4	1	0	25
## 234	2	3	2	1	0	1	0	1	21
## 235	4	3	1	1	1	1	0	0	21
## 236	4	3	1	1	0	0	0	0	18
## 237	1	2	1	1	1	6	0	0	30
## 238	2	1	1	1	0	0	0	0	19
## 239	1	1	2	1	0	0	0	1	22
## 240	3	3	1	1	1	4	0	0	19
## 241	1	2	1	1	0	1	0	0	24
## 242	1	1	1	1	0	0	0	0	22
## 243	2	3	1	1	0	2	0	0	17
## 244	3	3	1	1	0	0	0	0	16
## 245	1	3	1	1	1	0	1	0	20
## 246	1	3	2	1	0	0	1	0	12
## 247	3	2	2	1	1	3	0	0	20
## 248	1	1	1	1	0	1	0	0	24
## 249	3	2	1	1	0	0	0	0	20
## 250	3	3	1	1	0	0	0	0	20
## 251	1	1	1	1	0	0	0	1	17
## 252	4	4	1	1	1	4	0	0	24
## 253	2	3	1	1	1	2	0	0	20
## 254	4	3	1	1	0	1	1	0	18
## 255	2	3	1	1	0	0	0	0	20
## 256	3	2	1	1	0	0	0	0	23
## 257	1	1	2	1	0	3	0	1	24
## 258	1	1	4	1	0	0	0	1	20
## 259	3	3	1	1	1	1	0	0	22
## 260	1	1	3	1	0	4	0	1	21
## 261	1	1	1	1	0	1	0	1	25
## 262	1	1	1	1	0	0	0	0	21
## 263	2	2	1	1	1	0	0	0	22
## 264	1	4	2	1	0	2	0	0	20
## 265	2	2	1	1	0	2	0	1	21
## 266	4	4	1	1	1	2	0	0	27
## 267	1	2	1	1	0	2	0	0	17
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## 269	1	2	1	1	1	4	0	0	22
## 270	3	2	1	1	0	1	1	0	16
## 271	1	3	2	1	0	2	0	0	22
## 272	2	3	2	1	0	0	0	1	22
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## 274	2	4	1	1	1	1	0	0	21
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## 280	3	1	1	1	0	2	0	1	13
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## 285	2	1	1	1	0	1	0	0	26
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## 991	3	2	1	1	0	1	0	0	24
## 992	1	2	1	1	0	3	0	0	16
## 993	2	2	1	1	0	2	0	0	16
## 994	1	2	4	1	0	2	1	0	28
## 995	3	3	3	1	1	3	0	0	26
## 996	2	3	1	1	0	4	0	1	20
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## 998	2	3	1	1	0	2	0	0	22
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## 1002	1	1	3	2	0	1	1	0	20
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## 1004	1	1	2	1	0	1	0	0	19
## 1005	3	2	2	1	0	0	1	0	20
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## 1009	2	2	2	1	1	1	0	0	25
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## 1011	2	3	2	1	1	3	0	0	13
## 1012	1	3	1	1	0	3	0	1	25
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## 1019	3	2	1	1	1	2	0	0	22
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## 1022	3	2	1	1	1	0	0	0	22
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## 1038	1	2	1	1	0	0	1	1	17
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## 1129	2	2	3	1	0	2	0	0	24
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## 1132	4	4	3	1	1	3	0	0	20
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## 1135	2	3	2	1	1	2	0	0	28
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## 1138	1	1	3	2	0	3	0	0	28
## 1139	3	3	1	1	1	3	0	0	24
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## 1141	1	1	1	1	0	2	0	0	20
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## 1143	4	4	1	1	1	2	0	0	23
## 1144	1	1	1	1	0	0	0	0	17
## 1145	3	1	1	1	0	3	1	1	23
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## 1153	1	3	3	1	0	1	0	0	18
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## 1177	1	1	1	1	0	2	0	1	18
## 1178	2	1	1	1	0	0	1	0	30
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## 1192	1	3	1	1	0	1	0	0	22
## 1193	1	2	1	1	0	1	0	0	30
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## 1240	2	1	1	1	0	1	0	0	18
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## 1245	3	3	1	1	1	2	0	0	20
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## 1247	4	4	1	1	1	2	0	0	20
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## 1252	2	2	1	1	0	2	0	0	22
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## 1292	2	3	1	1	1	1	0	0	25
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## 1294	2	3	2	1	0	0	0	0	23
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## 1331	1	1	1	1	0	0	0	1	24
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## 1333	2	1	1	1	0	0	0	1	19
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## 1335	3	1	2	1	0	0	0	0	18
## 1336	3	1	1	1	1	4	0	0	22
## 1337	3	4	2	1	0	3	0	0	20
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## 1339	2	1	1	1	1	2	1	0	23
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## 1341	2	2	2	1	0	6	0	1	22
## 1342	1	2	1	1	0	3	0	0	16
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## 2059	2	1	1	1	0	1	0	0	17
## 2060	2	1	1	1	1	2	0	1	20
## 2061	2	1	1	1	0	0	0	0	23
## 2062	2	2	1	1	0	0	0	0	12
## 2063	3	4	1	1	1	2	0	0	15
## 2064	1	2	1	1	1	0	0	0	25
## 2065	4	4	1	1	1	0	0	0	26
## 2066	2	1	1	1	0	2	0	1	25
## 2067	1	1	1	1	0	3	0	1	23
## 2068	2	3	1	1	0	0	0	0	20
## 2069	2	1	2	1	0	0	0	0	12
## 2070	2	1	1	1	0	2	0	0	25
## 2071	3	1	2	1	0	1	0	0	25
## 2072	3	4	1	1	1	2	0	0	15
## 2073	2	4	2	1	0	0	0	0	16
## 2074	1	1	1	1	0	3	0	0	21
## 2075	4	1	1	1	1	0	0	0	18
## 2076	3	1	1	2	1	2	0	0	15
## 2077	3	3	3	1	1	2	0	0	24
## 2078	3	3	2	1	0	0	1	0	12
## 2079	4	4	1	1	1	2	0	0	15
## 2080	2	2	2	1	0	0	0	0	25
## 2081	2	1	1	1	0	2	0	0	23
## 2082	3	1	1	1	0	0	0	0	23
## 2083	3	2	2	1	1	1	0	0	21
## 2084	2	1	2	1	1	3	0	0	32
## 2085	3	1	1	2	0	1	0	0	21
## 2086	2	3	1	1	1	2	0	0	20
## 2087	1	4	1	1	1	0	0	0	18
## 2088	2	1	2	1	1	0	0	0	16
## 2089	3	2	1	1	1	0	0	0	22
## 2090	2	2	1	1	0	0	1	1	22
## 2091	2	1	1	1	0	1	0	1	20
## 2092	2	3	1	1	1	1	0	0	7
## 2093	2	1	1	1	0	5	0	1	30
## 2094	1	2	1	1	0	0	0	1	22
## 2095	1	1	2	1	0	0	1	1	13
## 2096	4	4	2	1	1	4	0	0	13
## 2097	1	1	2	1	0	1	1	1	25
## 2098	2	2	2	1	0	2	1	0	20
## 2099	1	2	1	1	0	1	1	0	12
## 2100	1	2	1	1	0	2	0	1	23
## 2101	2	3	1	1	0	0	1	0	15
## 2102	3	3	1	1	1	2	0	0	24
## 2103	3	2	1	1	1	2	0	0	22
## 2104	1	1	3	1	0	2	0	0	13
## 2105	4	3	1	1	1	1	0	0	20
## 2106	1	3	1	1	0	0	0	0	28
## 2107	1	1	1	1	0	2	1	0	40
## 2108	3	1	1	1	0	2	0	1	21
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## 2110	3	4	2	1	0	0	1	1	25
## 2111	4	4	1	1	1	4	0	0	21
## 2112	2	2	1	1	0	3	0	0	20

## 2113	3	1	4	1	1	2	0	0	27
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## 2115	1	1	1	1	0	0	0	1	30
## 2116	1	1	3	1	0	3	0	0	23
## 2117	1	1	1	1	0	0	0	1	30
## 2118	4	2	1	1	1	0	0	0	18
## 2119	2	3	2	1	1	3	0	0	18
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## 2128	3	4	3	1	0	0	0	0	20
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## 2130	3	1	2	1	0	1	0	1	22
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## 2134	2	2	1	1	0	0	0	0	23
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## 2136	2	2	1	1	1	2	0	0	17
## 2137	2	1	2	1	0	2	1	0	20
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## 2142	2	2	1	1	0	2	0	0	21
## 2143	1	2	1	1	0	2	0	0	27
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## 2149	1	2	2	1	0	4	0	1	28
## 2150	3	2	1	1	1	0	1	0	21
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## 2152	3	2	1	1	1	2	0	0	19
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## 2157	3	1	2	1	1	0	0	0	20
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## 2159	2	2	2	1	0	0	0	0	18
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## 2162	1	3	1	1	1	4	1	0	22
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## 2164	1	3	1	1	1	1	0	0	17
## 2165	1	2	2	1	0	0	0	0	20
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## 2184	1	2	1	1	0	2	0	0	15
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## 2186	2	2	1	1	0	1	0	1	20
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## 2207	3	3	1	1	0	0	0	0	15
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## 2209	1	1	2	1	0	1	0	1	15
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## 2211	1	2	2	1	0	0	0	1	22
## 2212	2	1	1	1	0	2	0	0	20
## 2213	3	3	1	1	1	2	0	0	18
## 2214	4	4	1	1	1	3	1	0	25
## 2215	4	4	2	1	1	1	0	0	15
## 2216	1	2	1	1	0	1	0	0	18
## 2217	1	2	1	1	1	1	0	0	18
## 2218	2	1	1	1	0	0	0	0	19
## 2219	1	1	1	1	1	2	0	0	15
## 2220	3	3	3	1	0	0	0	0	22

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## 2224	3	2	2	1	0	3	0	1	22
## 2225	3	3	2	1	0	1	0	0	26
## 2226	3	2	1	1	0	1	0	0	18
## 2227	1	3	2	1	0	0	0	0	28
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## 2230	2	2	1	1	0	4	1	0	20
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## 2232	1	3	1	1	1	2	0	0	19
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## 2234	2	3	3	1	0	2	0	1	11
## 2235	1	1	3	2	0	3	0	0	19
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## 2237	3	3	1	1	0	1	0	1	20
## 2238	1	3	1	1	0	0	1	0	17
## 2239	3	3	1	1	1	0	0	0	18
## 2240	2	2	1	1	0	0	1	0	19
## 2241	2	2	1	1	0	2	0	0	26
## 2242	2	3	1	1	1	0	1	0	18
## 2243	2	3	1	1	1	2	0	0	20
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## 2246	3	1	2	1	0	2	0	0	22
## 2247	4	4	1	1	1	2	0	0	20
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## 2249	3	2	2	1	0	2	0	1	3
## 2250	2	2	1	1	1	5	0	0	25
## 2251	1	2	1	1	0	1	0	0	19
## 2252	2	2	1	1	0	0	0	0	16
## 2253	3	4	1	1	1	1	0	0	21
## 2254	2	3	1	1	0	1	0	0	20
## 2255	3	3	2	1	0	0	0	0	19
## 2256	3	3	1	1	1	0	0	0	15
## 2257	2	2	1	1	0	1	1	0	18
## 2258	2	2	1	1	0	3	0	0	27
## 2259	2	4	1	1	1	2	0	1	19
## 2260	4	4	1	1	1	3	0	0	16
## 2261	1	3	1	1	0	1	0	0	24
## 2262	1	1	2	1	0	2	0	1	19
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## 2265	1	2	1	1	0	0	0	0	19
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## 2267	1	1	1	1	0	2	0	0	22
## 2268	1	2	1	1	0	0	0	0	30
## 2269	3	3	2	1	1	3	0	0	20
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## 2283	1	1	1	1	0	1	0	0	14
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## 2286	1	2	1	1	0	2	0	0	25
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## 2289	2	2	2	1	0	0	0	0	22
## 2290	1	3	1	1	0	0	0	0	29
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## 2293	1	1	1	1	0	2	0	0	24
## 2294	2	1	2	1	0	5	0	1	15
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## 2302	3	2	2	1	0	0	0	0	26
## 2303	1	1	3	1	0	0	0	0	24
## 2304	1	1	1	1	0	4	0	1	21
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## 2308	3	4	1	1	1	2	0	0	19
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## 2311	2	3	1	1	1	2	0	0	25
## 2312	1	2	1	1	0	2	0	0	21
## 2313	2	2	3	1	1	1	0	0	20
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## 2315	2	1	2	1	0	1	0	1	19
## 2316	3	3	1	1	0	1	0	1	23
## 2317	4	4	1	1	1	2	1	0	26
## 2318	1	2	1	1	0	1	0	1	15
## 2319	1	2	1	1	0	5	0	1	23
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## 2340	2	1	1	1	0	0	0	1	30
## 2341	3	3	2	1	0	0	0	1	23
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## 2351	2	2	1	1	0	1	0	0	19
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## 2353	3	2	3	1	1	1	0	0	21
## 2354	4	4	2	1	1	2	0	0	21
## 2355	2	1	2	1	0	1	1	0	23
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## 2357	2	3	1	1	1	1	0	0	23
## 2358	1	1	2	1	1	3	0	0	18
## 2359	3	2	1	2	0	2	0	0	20
## 2360	1	1	1	1	1	1	0	0	24
## 2361	1	1	1	1	0	1	0	1	23
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## 2364	1	2	3	1	1	2	0	1	22
## 2365	4	4	1	1	1	0	0	0	22
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## 2368	3	3	1	1	0	1	0	0	22
## 2369	2	3	1	1	0	0	0	0	21
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## 2371	2	2	2	1	0	1	0	0	21
## 2372	1	1	3	1	1	5	1	0	15
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## 2374	2	3	1	1	0	0	0	0	17
## 2375	1	1	1	1	1	1	0	0	20
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## 2381	3	2	1	1	1	2	0	0	20
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## 2383	2	1	1	1	0	2	0	0	22
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## 2393	3	3	2	1	0	2	0	0	10
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## 2402	1	1	1	1	0	2	0	1	24
## 2403	1	2	1	1	0	3	0	0	18
## 2404	3	3	1	2	0	3	0	0	27
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## 2407	1	1	1	1	0	1	0	0	26
## 2408	1	1	1	1	0	1	0	0	30
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## 2410	2	2	2	1	1	2	0	0	24
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## 2415	2	2	1	1	1	4	1	0	23
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## 2423	1	1	1	1	0	2	0	0	19
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## 2425	3	2	1	1	1	3	1	0	29
## 2426	1	2	2	1	0	1	1	0	15
## 2427	2	1	1	1	0	0	0	0	13
## 2428	3	1	1	1	1	4	0	0	18
## 2429	3	1	2	1	1	0	0	0	22
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## 2431	2	2	2	1	0	0	0	0	23
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## 2433	2	1	1	1	0	3	0	1	19
## 2434	2	2	2	1	0	2	1	0	7
## 2435	1	2	3	2	0	1	1	0	24
## 2436	1	1	1	1	1	2	0	0	18

## 2437	1	1	3	1	0	2	1	0	30
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## 2439	1	1	1	1	0	0	0	0	29
## 2440	3	3	1	1	0	0	0	0	22
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## 2442	3	3	1	1	0	0	0	0	25
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## 2447	1	3	1	1	0	1	0	0	34
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## 2767	1	1	2	1	0	2	0	1	27
## 2768	2	2	2	1	1	2	0	0	18
## 2769	3	3	1	1	1	3	0	0	20
## 2770	2	2	3	1	0	1	0	0	23
## 2771	2	1	1	1	0	1	0	0	19
## 2772	1	1	1	1	1	0	0	0	17
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## 2774	2	1	2	1	0	0	0	0	20
## 2775	2	3	2	1	1	0	0	0	30
## 2776	1	2	1	1	0	2	0	1	17
## 2777	2	1	1	1	0	2	0	0	24
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## 2779	2	2	2	1	0	2	0	0	21
## 2780	1	1	1	1	1	3	0	0	40
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## 2782	2	2	1	2	1	6	0	0	16
## 2783	1	1	2	1	0	0	0	0	19
## 2784	4	3	3	1	0	0	0	1	22
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## 2788	4	4	1	1	1	3	0	0	21
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## 2790	4	4	1	1	1	3	0	0	20
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## 2792	1	2	1	1	0	1	1	1	23
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##	cf1hhinc	k5d1f	k5f1f	y_binary					
## 1	22500	0	2	1					
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## 3	62500	1	2	0					
## 4	30000	1	2	0					
## 5	42500	1	2	0					
## 6	21063	4	2	0					
## 7	30000	2	2	1					
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## 9	22500	1	2	0					
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## 13	62500	4	2	1					
## 14	17500	1	2	0					
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## 18	37619	2	2	0					
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## 635	12500	1	2	0
## 636	42500	0	2	1
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## 662	49592	1	2	0
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## 1794	123631	4	2	0
## 1795	3750	1	2	1
## 1796	62500	1	2	0
## 1797	12500	2	2	0
## 1798	62500	1	2	0
## 1799	17500	3	2	0
## 1800	62500	3	2	1
## 1801	62500	4	2	1
## 1802	3750	0	2	0
## 1803	22500	1	2	1
## 1804	25428	2	2	1
## 1805	3750	1	2	1
## 1806	42500	3	2	0

## 1807	17500	1	2	1
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## 1809	42500	4	2	0
## 1810	62500	0	2	0
## 1811	7500	4	2	1
## 1812	62500	3	2	0
## 1813	30000	1	2	0
## 1814	12500	0	2	0
## 1815	12500	3	2	0
## 1816	22500	4	2	1
## 1817	7500	1	2	0
## 1818	130183	0	2	0
## 1819	30000	1	2	0
## 1820	3750	1	2	0
## 1821	42500	2	2	0
## 1822	22500	4	1	0
## 1823	42500	2	2	0
## 1824	17500	1	2	0
## 1825	25186	3	2	0
## 1826	123631	3	2	0
## 1827	127243	1	2	1
## 1828	30000	2	2	0
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## 1830	15289	1	2	1
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## 1832	7500	0	2	1
## 1833	3750	0	2	0
## 1834	62500	0	1	1
## 1835	30000	4	2	1
## 1836	7500	0	2	0
## 1837	7500	1	2	0
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## 1839	62500	4	2	0
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## 1841	0	4	2	0
## 1842	30000	4	2	1
## 1843	3750	0	2	0
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## 1845	3750	4	2	0
## 1846	7500	0	2	0
## 1847	22500	1	2	0
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## 1854	42500	1	2	1
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## 1856	30000	1	2	0
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## 1858	62500	0	2	1
## 1859	87376	3	2	1
## 1860	7500	4	2	0

## 1861	35153	3	2	0
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## 1863	62500	2	2	0
## 1864	18217	2	2	1
## 1865	42500	0	2	0
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## 1876	36018	3	2	0
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## 1878	49773	0	2	0
## 1879	21124	1	2	1
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## 1887	8933	4	2	1
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## 1893	30000	2	2	0
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## 1961	62500	1	2	1
## 1962	62500	4	2	1
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## 1964	17500	2	2	0
## 1965	62500	3	2	0
## 1966	17500	4	2	0
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## 1968	42500	4	1	0

## 1969	62500	3	2	0
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## 1971	30000	3	2	0
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## 1976	17500	0	2	0
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## 1981	12500	0	2	0
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## 1987	62500	3	2	1
## 1988	17500	3	2	0
## 1989	62500	0	2	1
## 1990	62500	0	2	0
## 1991	7500	4	2	1
## 1992	65420	0	2	0
## 1993	25325	0	2	0
## 1994	36937	1	2	1
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## 1999	42500	3	2	1
## 2000	123691	0	2	0
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## 2002	62500	1	2	1
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## 2008	6362	0	2	0
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## 2010	42500	2	2	1
## 2011	23586	4	2	0
## 2012	133750	0	2	0
## 2013	22500	0	2	0
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## 2016	22500	2	2	1
## 2017	0	0	2	0
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## 2021	62500	2	2	0
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##	2917	62500	2	2	0
##	2918	7500	3	2	0
##	2919	3750	0	1	0
##	2920	22500	1	2	1
##	2921	17738	3	2	1
##	2922	30000	4	2	0
##	2923	30000	2	2	0
##	2924	62500	1	2	1
##	2925	123970	0	2	0
##	2926	7500	0	2	0
##	2927	12500	0	1	0
##	2928	30000	2	2	0
##	2929	29027	1	2	1
##	2930	42500	4	2	0
##	2931	7500	0	2	1
##	2932	79409	1	2	0
##	2933	62500	4	2	0
##	2934	17500	3	2	1
##	2935	62500	1	2	1
##	2936	24432	4	2	0
##	2937	7500	0	2	0
##	2938	40348	1	2	0
##	2939	42500	0	2	0
##	2940	3750	4	2	0

##	2941	34490	4	2	0
##	2942	7500	2	2	0
##	2943	7500	2	2	0
##	2944	38732	2	2	0
##	2945	39141	2	2	1
##	2946	42500	4	2	0
##	2947	3750	2	2	0
##	2948	12500	1	2	0
##	2949	62500	1	2	0
##	2950	7500	4	1	0
##	2951	37163	3	2	0
##	2952	5415	0	2	0
##	2953	42500	3	2	1
##	2954	131508	0	2	0
##	2955	123970	1	2	0
##	2956	0	4	2	1
##	2957	62500	0	2	0
##	2958	62500	4	2	0
##	2959	62500	2	2	1
##	2960	42500	0	1	0
##	2961	30000	4	2	0
##	2962	123631	2	2	1
##	2963	14555	0	2	0
##	2964	62500	3	2	1
##	2965	30000	3	2	1
##	2966	12500	1	2	0
##	2967	133750	1	2	1
##	2968	7500	1	2	0
##	2969	30000	1	2	1
##	2970	42500	3	2	1
##	2971	42500	4	2	0
##	2972	42500	1	2	0
##	2973	61173	2	2	0
##	2974	62500	1	2	1
##	2975	62500	0	2	1
##	2976	18729	1	2	1
##	2977	133750	0	2	0
##	2978	9234	3	1	0
##	2979	62500	3	2	1
##	2980	12500	1	2	0
##	2981	7500	2	2	0
##	2982	26062	3	2	1
##	2983	127243	2	2	0
##	2984	7500	4	2	0
##	2985	133750	1	2	0
##	2986	42500	3	2	0
##	2987	7500	0	2	1
##	2988	62500	2	2	1
##	2989	30000	1	2	0
##	2990	30000	4	2	0
##	2991	62500	3	2	0
##	2992	31992	1	2	0
##	2993	42500	1	2	0
##	2994	42500	0	2	0

##	2995	42500	1	2	1
##	2996	62500	1	2	0
##	2997	42500	4	2	0
##	2998	62500	0	2	1
##	2999	42500	4	2	0
##	3000	3750	1	2	0
##	3001	17500	3	2	0
##	3002	17500	0	2	0
##	3003	125975	4	2	0
##	3004	42500	2	2	0
##	3005	42500	1	2	0
##	3006	19498	4	2	0
##	3007	17500	1	2	1
##	3008	62500	0	2	1
##	3009	17500	0	2	0
##	3010	62500	3	2	0
##	3011	17500	2	2	1
##	3012	34215	0	2	0
##	3013	22500	0	2	0
##	3014	17500	0	2	1
##	3015	12500	3	2	0
##	3016	30000	1	2	1
##	3017	62500	3	2	0
##	3018	17500	1	2	0
##	3019	130183	2	2	1
##	3020	17500	0	2	0
##	3021	29988	0	2	0
##	3022	127243	4	2	1
##	3023	30000	2	2	0
##	3024	17500	1	2	0
##	3025	1957	0	2	0
##	3026	29541	4	2	0
##	3027	62500	2	2	0
##	3028	7500	0	2	0
##	3029	63281	0	2	0
##	3030	22500	1	2	0
##	3031	3750	2	2	0
##	3032	22500	0	2	0
##	3033	0	1	2	0
##	3034	123631	2	2	1
##	3035	12500	4	2	0
##	3036	3750	0	2	0
##	3037	22500	1	2	0
##	3038	22500	3	2	0
##	3039	7500	4	2	0
##	3040	17500	3	2	0
##	3041	122507	2	2	0
##	3042	62500	3	2	0
##	3043	62500	4	2	1
##	3044	42500	4	2	0
##	3045	17500	1	2	1
##	3046	7500	1	2	0
##	3047	22500	0	2	1
##	3048	62500	1	2	0

## 3049	22500	2	2	0
## 3050	127243	2	2	0
## 3051	19272	2	2	0
## 3052	62500	0	2	0
## 3053	123631	1	2	0
## 3054	22500	2	2	1
## 3055	17500	0	2	0
## 3056	30000	2	2	1
## 3057	3750	0	2	1
## 3058	110617	4	1	0
## 3059	62500	0	2	1
## 3060	0	1	2	1
## 3061	62500	1	2	0
## 3062	133750	1	2	0
## 3063	42500	1	2	0
## 3064	42500	1	2	0
## 3065	12500	0	1	0
## 3066	7500	4	2	1
## 3067	3750	4	2	1
## 3068	125975	4	2	0
## 3069	25186	0	2	0
## 3070	17500	2	2	0
## 3071	0	3	2	0
## 3072	62500	0	2	0
## 3073	30000	4	2	0
## 3074	12500	0	2	0
## 3075	17500	4	1	1
## 3076	30000	4	2	0
## 3077	12500	1	2	0
## 3078	12500	1	2	0
## 3079	130183	2	1	1
## 3080	62500	4	2	0
## 3081	22500	1	2	0
## 3082	123631	2	2	0
## 3083	3750	0	2	1
## 3084	30000	1	2	1
## 3085	7500	3	2	0
## 3086	53186	1	2	1
## 3087	30000	4	2	1
## 3088	22500	3	2	1
## 3089	42500	3	2	0
## 3090	12500	1	2	1
## 3091	30000	2	2	0
## 3092	42500	1	2	1
## 3093	62500	1	2	1
## 3094	62500	3	2	1
## 3095	62500	1	2	0
## 3096	7500	0	2	1
## 3097	17500	0	2	0
## 3098	12500	2	2	0
## 3099	7500	1	2	0
## 3100	7500	0	2	1
## 3101	22500	2	2	0
## 3102	17500	0	2	0

```
## 3103    22500      1      2      0
## 3104    42500      1      2      0
## 3105    42500      0      2      0
## 3106    22500      1      2      0
## 3107     7500      3      2      0
## 3108     7034      1      2      0
## 3109   118768      3      2      0
## 3110    33292      4      2      1
## 3111    29194      0      2      1
## 3112    12551      1      2      0
## 3113     4681      1      2      0
```

```
set.seed(283)

data_y1 <- data_imputed[data_imputed$y_binary ==
  1, ]
data_y0 <- data_imputed[data_imputed$y_binary ==
  0, ]

test_indices_y1 <- sample(nrow(data_y1),
  150)
test_indices_y0 <- sample(nrow(data_y0),
  150)

test <- rbind(data_y1[test_indices_y1, ],
  data_y0[test_indices_y0, ])
train <- data_imputed[!rownames(data_imputed) %in%
  rownames(test), ]
```

Model Fitting

```
options(scipen = 999, digits=3)
logistic_model <- glm(y_binary ~ ., data = train, family = binomial)
summary(logistic_model)
```

```
##
## Call:
## glm(formula = y_binary ~ ., family = binomial, data = train)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.87131901  0.30429532  -2.86  0.00419 **
## cf1edu2      -0.11902838  0.10482928  -1.14  0.25619
## cf1edu3       0.12505701  0.12187302   1.03  0.30483
## cf1edu4       0.69834087  0.18577467   3.76  0.00017 ***
## cm1edu2       0.31038086  0.10873799   2.85  0.00431 **
## cm1edu3       0.32719265  0.12026739   2.72  0.00652 **
## cm1edu4       0.75778164  0.18259176   4.15  0.000033 ***
## f2b322      -0.04500933  0.10307683  -0.44  0.66236
## f2b323      -0.25641403  0.14844750  -1.73  0.08411 .
## f2b324      -0.02922856  0.31987052  -0.09  0.92719
## f2b325     -14.01262170 311.17451870  -0.05  0.96408
```

```
## m2d22          0.27749851  0.26844492   1.03  0.30126
## cf3marm1       0.24517206  0.10173929   2.41  0.01596 *
## cf3kids        0.03555893  0.02987321   1.19  0.23392
## cf3md_case_lib1 -0.22208109  0.12202069  -1.82  0.06875 .
## cf4cohml       -0.06537501  0.11326740  -0.58  0.56382
## t4d7           -0.01267076  0.00905441  -1.40  0.16169
## cf1hhinc       0.00000142  0.00000141   1.00  0.31511
## k5d1f1         -0.11592365  0.11153104  -1.04  0.29863
## k5d1f2         -0.11030737  0.13135793  -0.84  0.40105
## k5d1f3         -0.26352664  0.13003075  -2.03  0.04270 *
## k5d1f4         -0.18355105  0.13622067  -1.35  0.17783
## k5f1f2         0.14883251  0.19688363   0.76  0.44968
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
## Null deviance: 3630.6 on 2812 degrees of freedom
## Residual deviance: 3450.5 on 2790 degrees of freedom
## AIC: 3497
##
## Number of Fisher Scoring iterations: 13
anova(logistic_model, test = "Chisq")

## Analysis of Deviance Table
##
## Model: binomial, link: logit
##
## Response: y_binary
##
## Terms added sequentially (first to last)
##
##
```

	Df	Deviance	Resid. Df	Resid. Dev	Pr(>Chi)
## NULL			2812	3631	
## cf1edu	3	115.9	2809	3515	< 0.00000000000000002 ***
## cm1edu	3	30.6	2806	3484	0.000001 ***
## f2b32	4	9.5	2802	3475	0.050 .
## m2d2	1	1.0	2801	3474	0.327
## cf3marm	1	10.8	2800	3463	0.001 **
## cf3kids	1	0.9	2799	3462	0.334
## cf3md_case_lib	1	3.1	2798	3459	0.077 .
## cf4cohml	1	0.3	2797	3459	0.596
## t4d7	1	1.9	2796	3457	0.173
## cf1hhinc	1	0.9	2795	3456	0.335
## k5d1f	4	4.6	2791	3451	0.329
## k5f1f	1	0.6	2790	3451	0.446

```
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

coef_summary <- summary(logistic_model)$coefficients
coef_summary <- as.data.frame(coef_summary)
names(coef_summary) <- c("Estimate", "Std. Error", "z value", "Pr(>|z|)")
```

```

z_score <- qnorm(0.975)
coef_summary$`CI Lower` <- round(coef_summary$Estimate - z_score * coef_summary$`Std. Error`, 4)
coef_summary$`CI Upper` <- round(coef_summary$Estimate + z_score * coef_summary$`Std. Error`, 4)
coef_summary$Estimate <- round(coef_summary$Estimate, 4)
coef_summary$`Std. Error` <- round(coef_summary$`Std. Error`, 4)
coef_summary$`Pr(>|z|)` <- round(coef_summary$`Pr(>|z|)`, 4)

coef_summary$`Confidence Interval` <- paste("[", coef_summary$`CI Lower`, ", ", coef_summary$`CI Upper`
final_summary <- coef_summary[, c("Estimate", "Std. Error", "Confidence Interval", "Pr(>|z|)")]
print(final_summary)

```

```

##           Estimate Std. Error  Confidence Interval Pr(>|z|)
## (Intercept)   -0.8713    0.3043    [-1.4677, -0.2749]  0.0042
## cf1edu2       -0.1190    0.1048    [-0.3245, 0.0864]  0.2562
## cf1edu3        0.1251    0.1219    [-0.1138, 0.3639]  0.3048
## cf1edu4        0.6983    0.1858     [0.3342, 1.0625]  0.0002
## cm1edu2        0.3104    0.1087     [0.0973, 0.5235]  0.0043
## cm1edu3        0.3272    0.1203     [0.0915, 0.5629]  0.0065
## cm1edu4        0.7578    0.1826     [0.3999, 1.1157]  0.0000
## f2b322        -0.0450    0.1031     [-0.247, 0.157]  0.6624
## f2b323        -0.2564    0.1484     [-0.5474, 0.0345]  0.0841
## f2b324        -0.0292    0.3199     [-0.6562, 0.5977]  0.9272
## f2b325       -14.0126   311.1745  [-623.9035, 595.8782]  0.9641
## m2d22          0.2775    0.2684     [-0.2486, 0.8036]  0.3013
## cf3marm1       0.2452    0.1017     [0.0458, 0.4446]  0.0160
## cf3kids        0.0356    0.0299     [-0.023, 0.0941]  0.2339
## cf3md_case_lib1 -0.2221    0.1220     [-0.4612, 0.0171]  0.0688
## cf4cohml       -0.0654    0.1133     [-0.2874, 0.1566]  0.5638
## t4d7           -0.0127    0.0091     [-0.0304, 0.0051]  0.1617
## cf1hhinc       0.0000    0.0000          [0, 0]  0.3151
## k5d1f1        -0.1159    0.1115     [-0.3345, 0.1027]  0.2986
## k5d1f2        -0.1103    0.1314     [-0.3678, 0.1471]  0.4011
## k5d1f3        -0.2635    0.1300     [-0.5184, -0.0087]  0.0427
## k5d1f4        -0.1836    0.1362     [-0.4505, 0.0834]  0.1778
## k5f1f2         0.1488    0.1969     [-0.2371, 0.5347]  0.4497

```

```

latex_table <- xtable(final_summary, caption = "Logistic Regression Coefficients", label = "table:coeff",
  digits=c(0, 4, 4, 4, 4))

```

```

# Printing the xtable with four digits for all numeric columns
print(latex_table, include.rownames = TRUE, floating = FALSE,
  hline.after = c(-1, 0, nrow(final_summary)), digits = c(0, 4, 4, 4, 4))

```

```

## % latex table generated in R 4.3.3 by xtable 1.8-4 package
## % Tue Apr 30 22:43:00 2024
## \begin{tabular}{rrrrl}
##   \hline
##   & Estimate & Std. Error & Confidence Interval & Pr(>|z|) \\
##   \hline
## (Intercept) & -0.8713 & 0.3043 & [-1.4677, -0.2749] & 0.0042 \\
## cf1edu2 & -0.1190 & 0.1048 & [-0.3245, 0.0864] & 0.2562 \\
## cf1edu3 & 0.1251 & 0.1219 & [-0.1138, 0.3639] & 0.3048 \\
## cf1edu4 & 0.6983 & 0.1858 & [0.3342, 1.0625] & 0.0002 \\

```



```
## cm1edu2 & 0.3104 & 0.1087 & [0.0973, 0.5235] & 0.0043 \\
## cm1edu3 & 0.3272 & 0.1203 & [0.0915, 0.5629] & 0.0065 \\
## cm1edu4 & 0.7578 & 0.1826 & [0.3999, 1.1157] & 0.0000 \\
## f2b322 & -0.0450 & 0.1031 & [-0.247, 0.157] & 0.6624 \\
## f2b323 & -0.2564 & 0.1484 & [-0.5474, 0.0345] & 0.0841 \\
## f2b324 & -0.0292 & 0.3199 & [-0.6562, 0.5977] & 0.9272 \\
## f2b325 & -14.0126 & 311.1745 & [-623.9035, 595.8782] & 0.9641 \\
## m2d22 & 0.2775 & 0.2684 & [-0.2486, 0.8036] & 0.3013 \\
## cf3marm1 & 0.2452 & 0.1017 & [0.0458, 0.4446] & 0.0160 \\
## cf3kids & 0.0356 & 0.0299 & [-0.023, 0.0941] & 0.2339 \\
## cf3md\_case\_lib1 & -0.2221 & 0.1220 & [-0.4612, 0.0171] & 0.0688 \\
## cf4cohm1 & -0.0654 & 0.1133 & [-0.2874, 0.1566] & 0.5638 \\
## t4d7 & -0.0127 & 0.0091 & [-0.0304, 0.0051] & 0.1617 \\
## cf1hhinc & 0.0000 & 0.0000 & [0, 0] & 0.3151 \\
## k5d1f1 & -0.1159 & 0.1115 & [-0.3345, 0.1027] & 0.2986 \\
## k5d1f2 & -0.1103 & 0.1314 & [-0.3678, 0.1471] & 0.4011 \\
## k5d1f3 & -0.2635 & 0.1300 & [-0.5184, -0.0087] & 0.0427 \\
## k5d1f4 & -0.1836 & 0.1362 & [-0.4505, 0.0834] & 0.1778 \\
## k5f1f2 & 0.1488 & 0.1969 & [-0.2371, 0.5347] & 0.4497 \\
## \hline
## \end{tabular}
```

```
test_predict <- predict(logistic_model,
  newdata = test, type = "response")
test_predict <- ifelse(test_predict >
  0.5, 1, 0)

compare_test <- table(test$y_binary,
  test_predict, dnn = c("Actual",
    "Predicted"))
accuracy <- sum(diag(compare_test))/sum(compare_test)
print(accuracy)
```

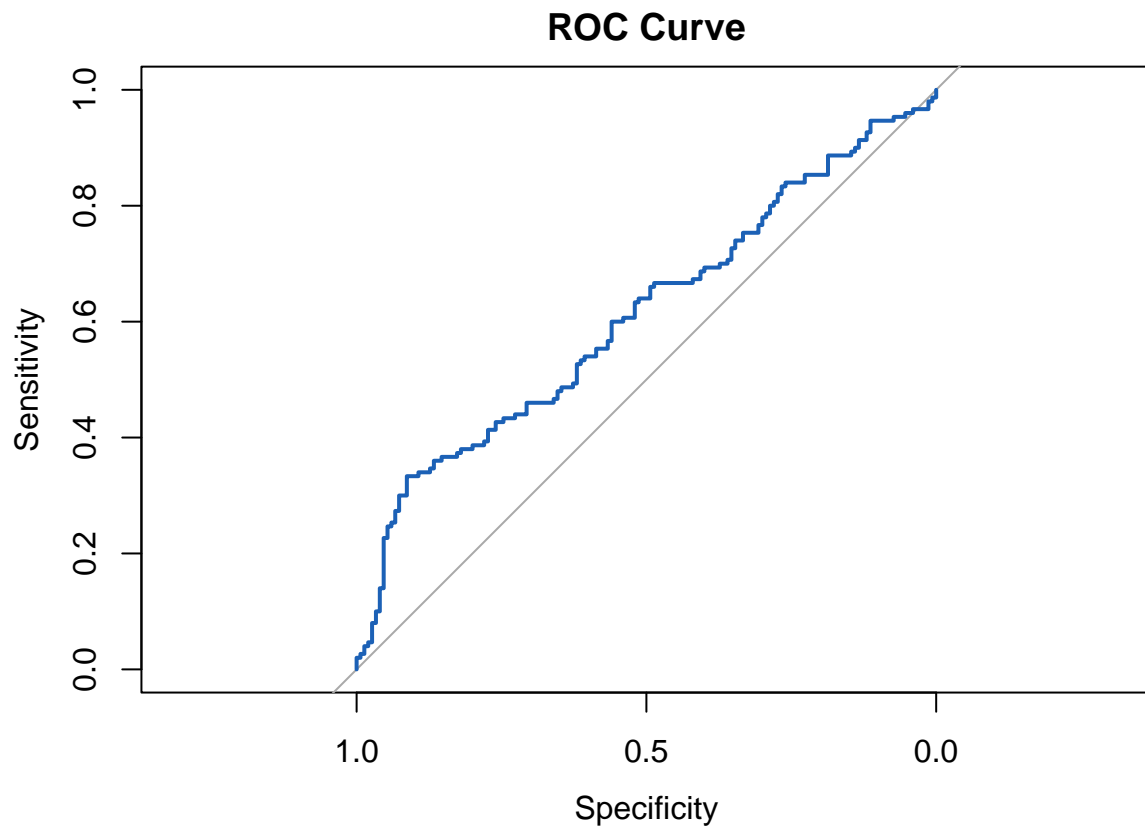
```
## [1] 0.603
```

```
predictions <- predict(logistic_model,
  newdata = test, type = "response")
roc_curve <- roc(test$y_binary,
  predictions)
```

```
## Setting levels: control = 0, case = 1
```

```
## Setting direction: controls < cases
```

```
plot(roc_curve, main = "ROC Curve",
  col = "#1c61b6")
```



```
print(auc(roc_curve))

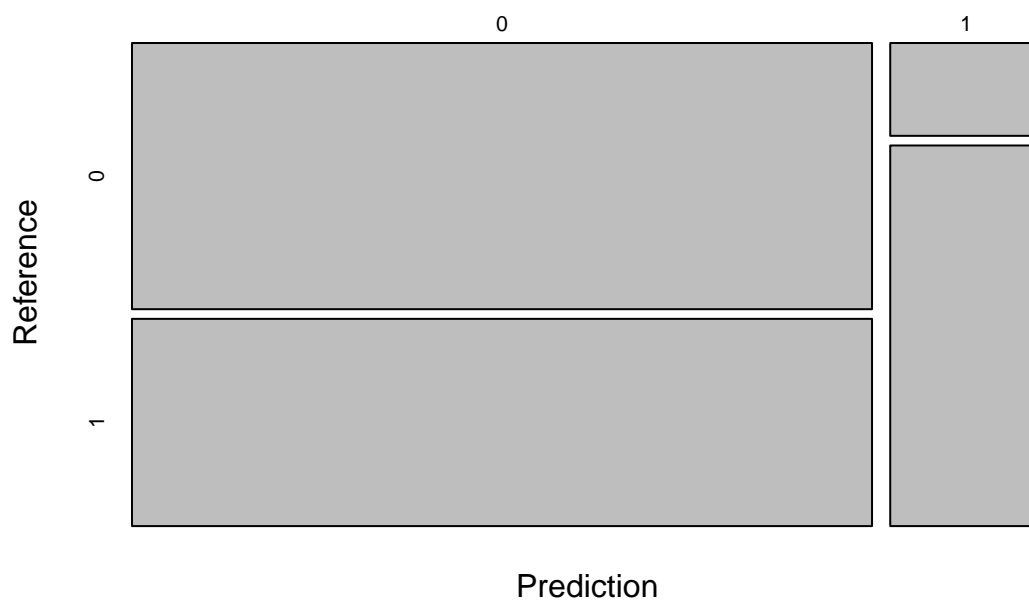
## Area under the curve: 0.611

conf_matrix <- confusionMatrix(as.factor(test_predict),
                                as.factor(test$y_binary))
print(conf_matrix$table)

##           Reference
## Prediction  0    1
##           0 140 109
##           1  10  41

plot(conf_matrix$table,
     main = "Confusion Matrix")
```

Confusion Matrix



```
library(caret)
set.seed(42)

# initialization
# for K-fold CV
K <- 5
ctrl <- trainControl(method = "cv",
  number = K, verboseIter = FALSE)

# perform K-fold
# cross-validation
model <- train(y_binary ~
  ., data = data_imputed,
  method = "glm", family = "binomial",
  trControl = ctrl)

accuracy_results <- model$results
print(accuracy_results)

##   parameter Accuracy Kappa AccuracySD KappaSD
## 1      none      0.67 0.168      0.0139 0.0321
```