Critical Thinking Group 4 - HW5 - Wine

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Overview

The objective of this assignment is to predict the number of cases of wine that will be sold based on the properties of the wine. A count regression model will be used to predict wine sales.

Dataset
Wine - Training data
Wine - Evaluation Data

Data Exploration

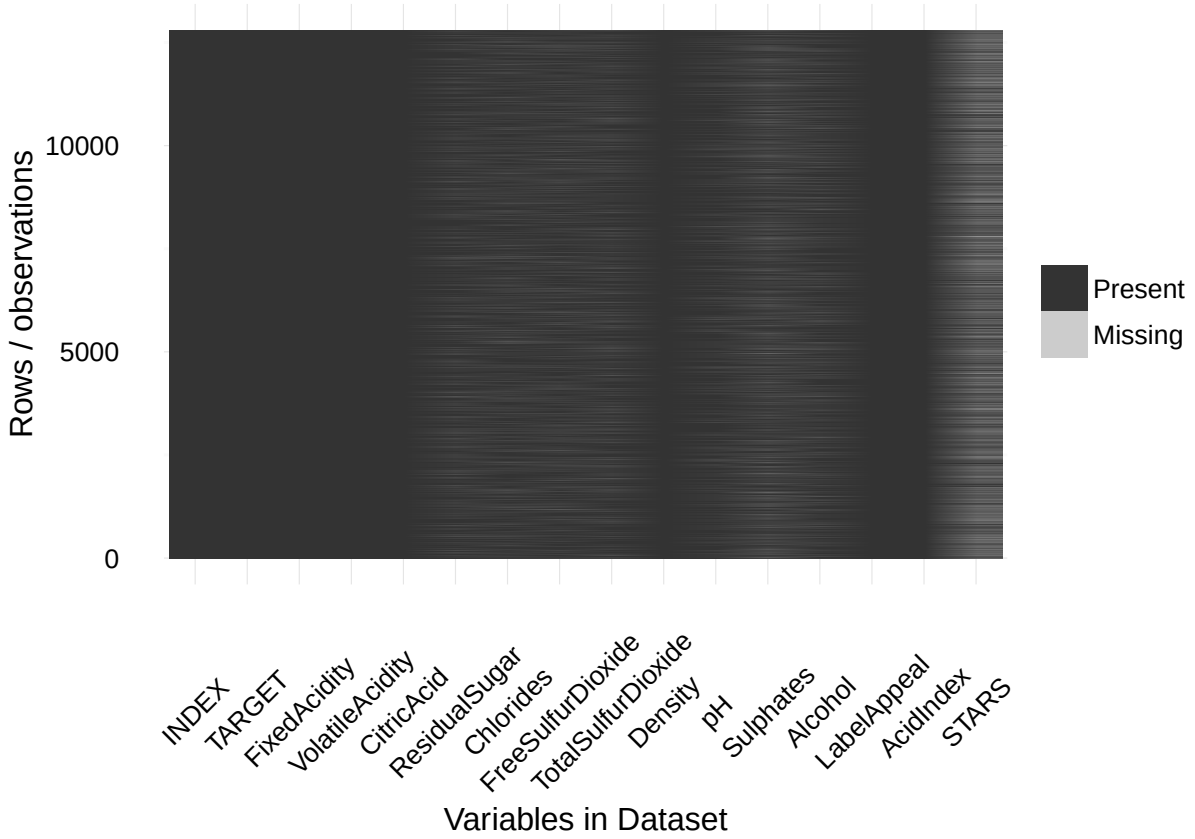
Looks like the INDEX column name need to be corrected.

Missing Data

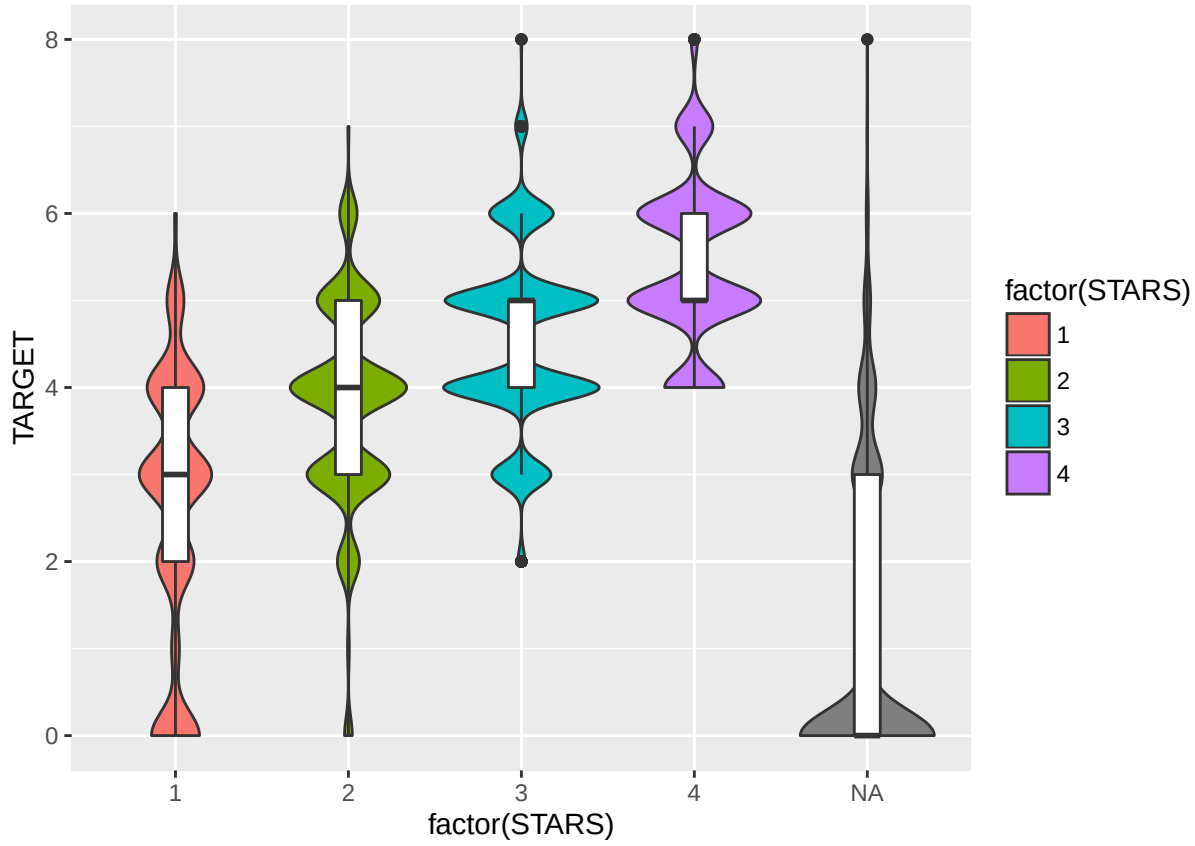
Eight of the variables have missing data.

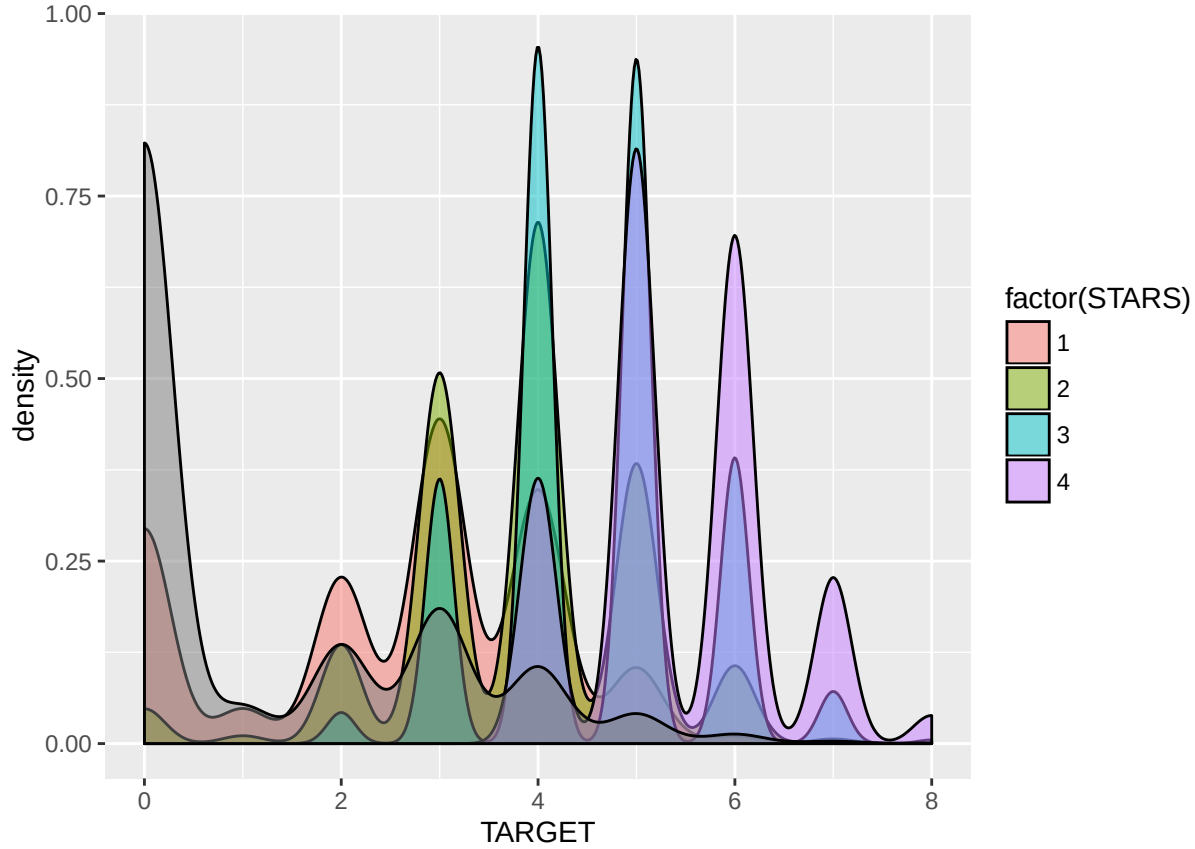
ColName	NA_Count	NA_Percent
ResidualSugar	616	4.81
Chlorides	638	4.99
FreeSulfurDioxide	647	5.06
TotalSulfurDioxide	682	5.33
pH	395	3.09
Sulphates	1210	9.46
Alcohol	653	5.10
STARS	3359	26.25

Lets explore more on the missing values here:



Though there are lot of missing values, we could not see a definite pattern here, but we difinitely notice that there are highest number of missing values for $STARS$ variable.

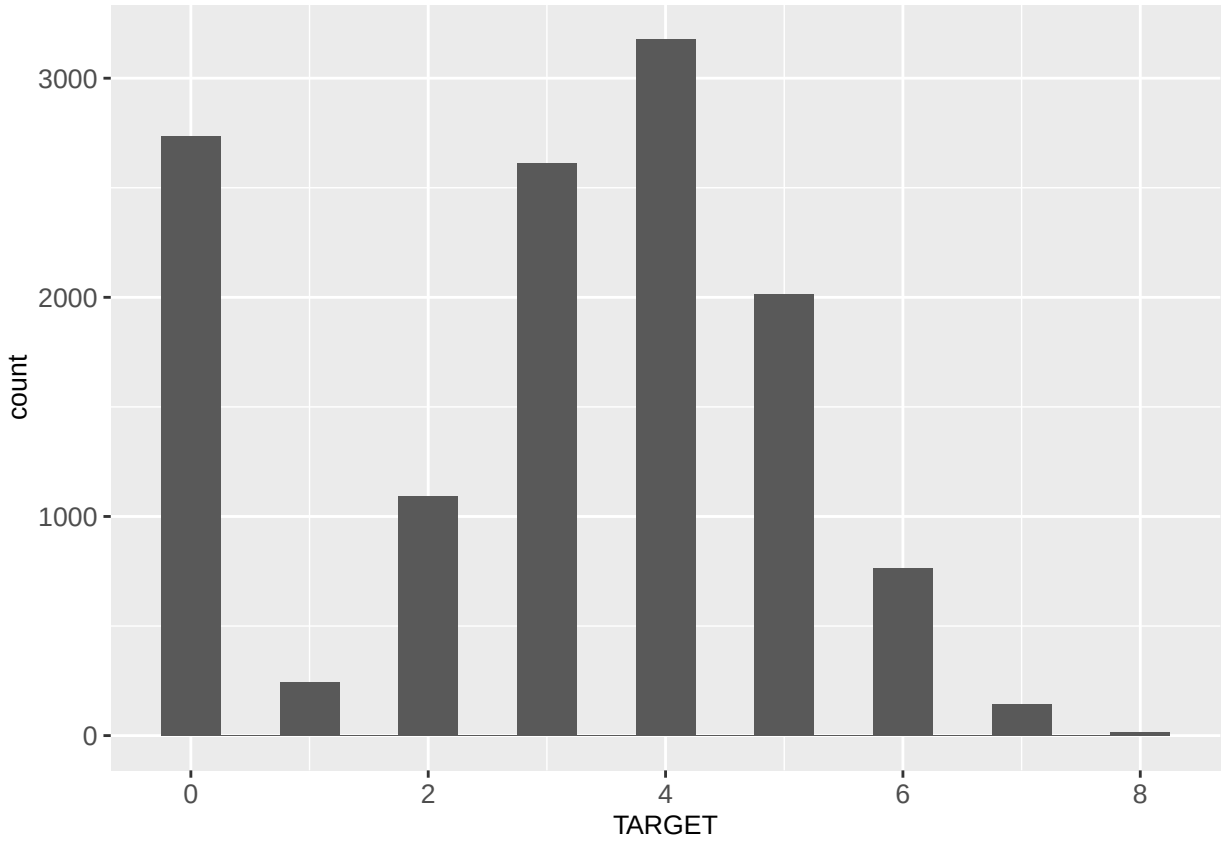

8
6
4
2
0
TARGET
1
2
3
4
NA
factor(STARS)
factor(STARS)
1
2
3
4



From the above diagrams, we notice that the NAs for STARS showing us a different distribution. So, we have to take care of this in the data preparation.

Data Distributions

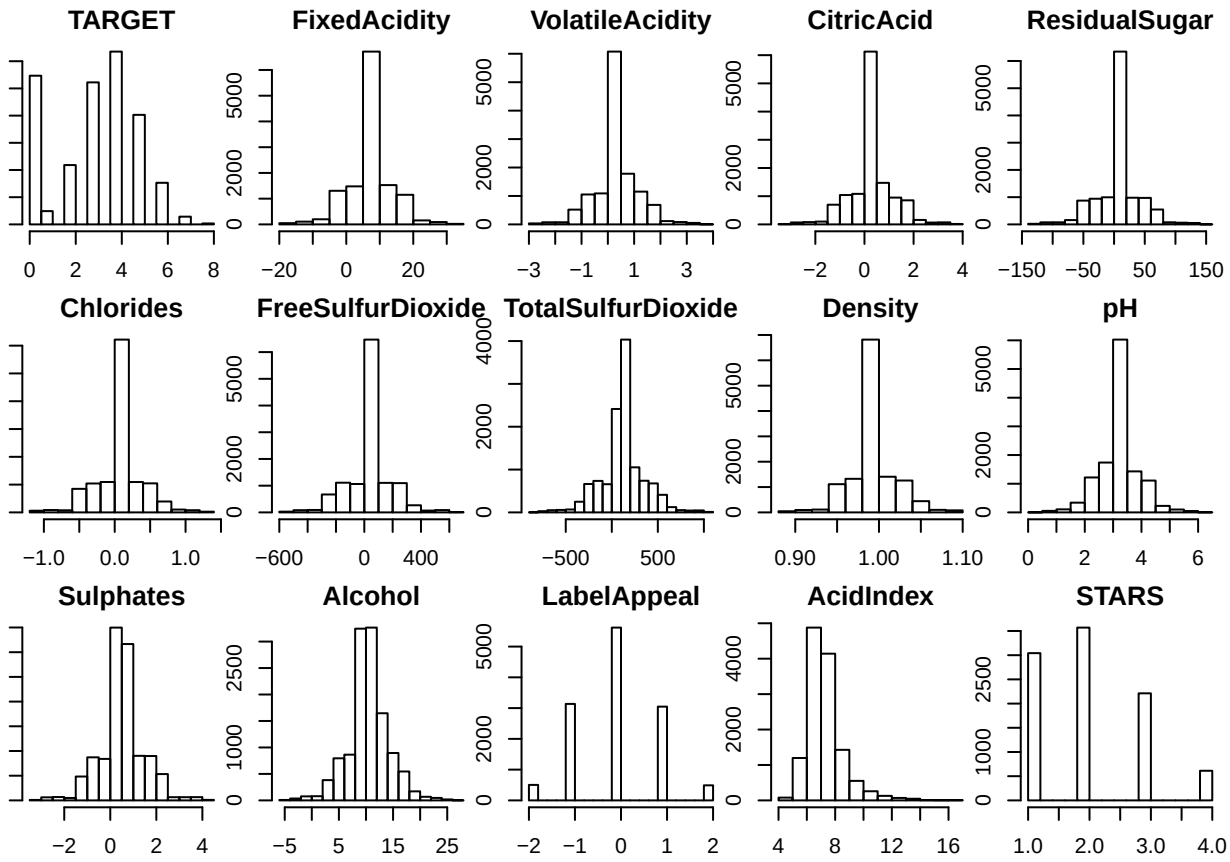
Lets check the overall distribution of the TAGET variable (which is a *count variable* indicating the number of sample cases):

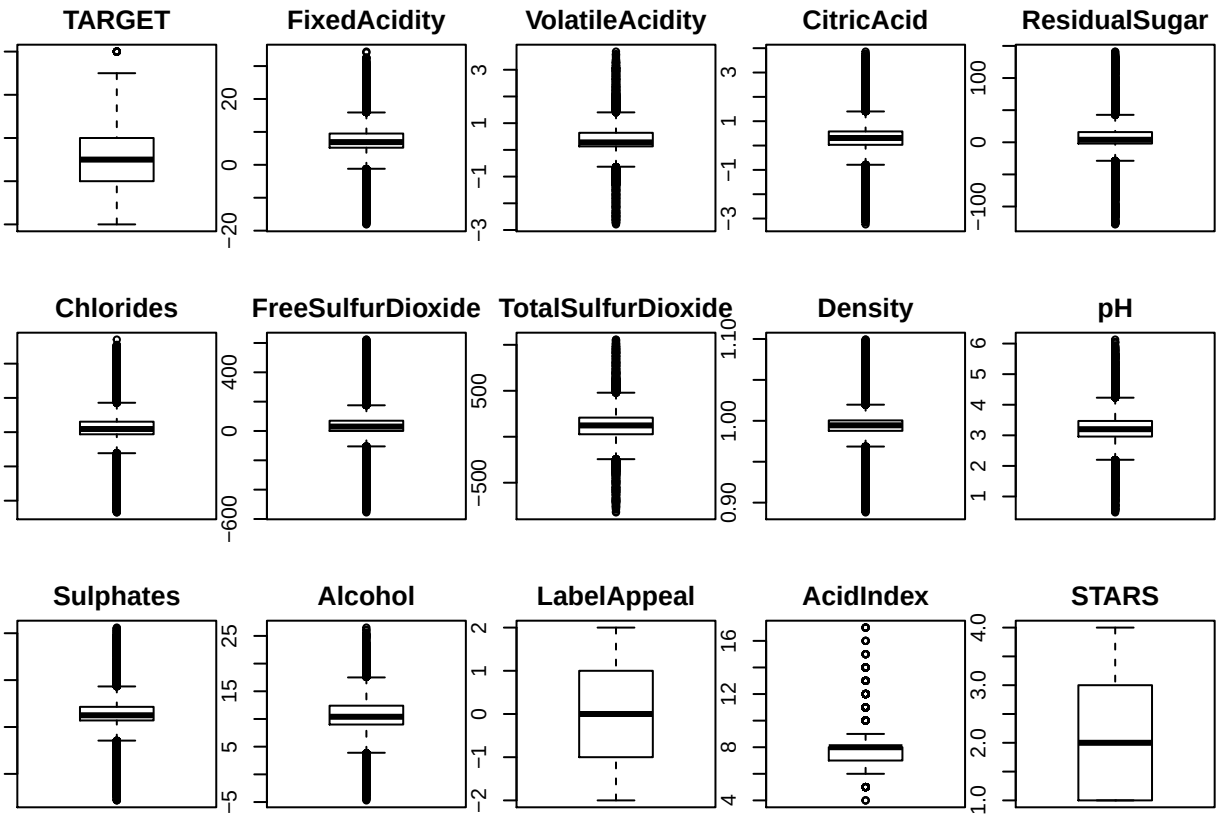


The above *TARGET* distribution has lot of *ZERO* values, which would indicate the *no sample cases purchased*, which could be due to NA values presence Or, some business reasons. But overall this appears close to *Poisson* distribution.

Lets check other variables distributions:

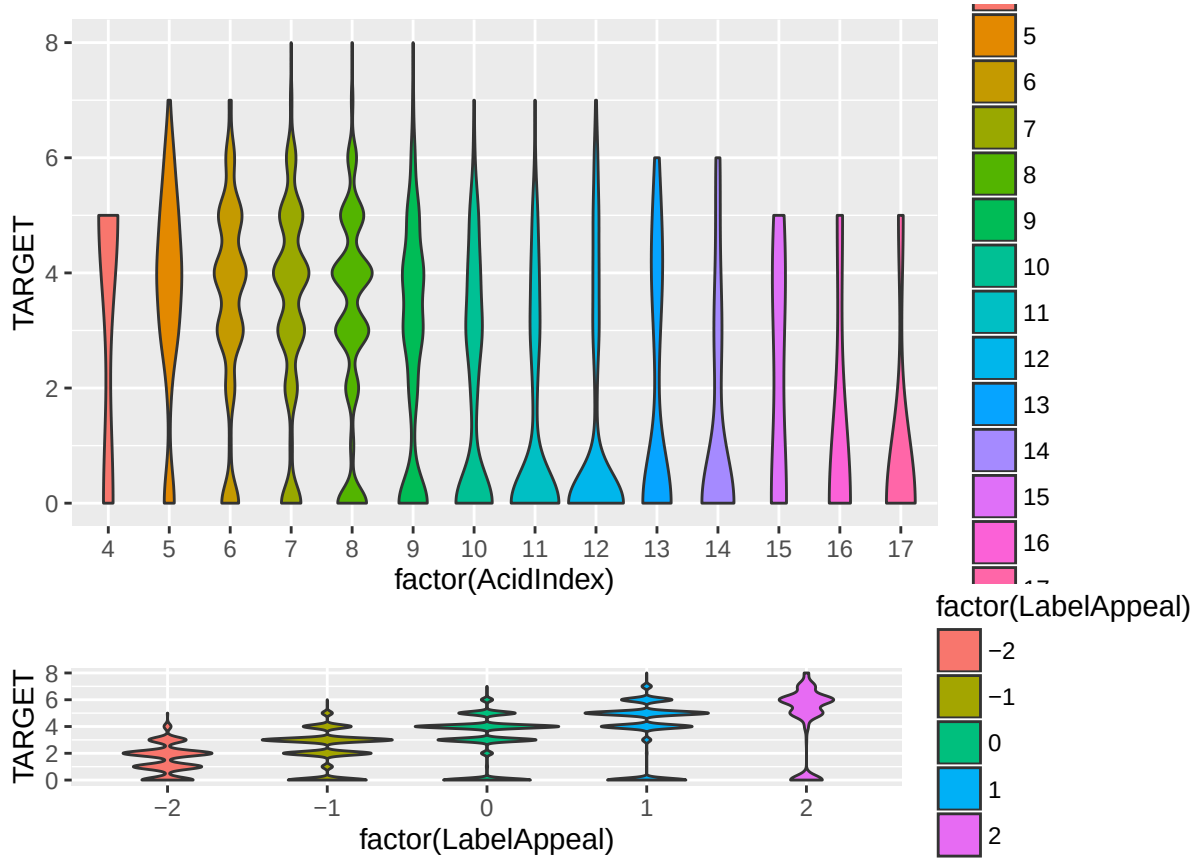
```
##  [1] "INDEX"             "TARGET"             "FixedAcidity"
##  [4] "VolatileAcidity"   "CitricAcid"         "ResidualSugar"
##  [7] "Chlorides"         "FreeSulfurDioxide"  "TotalSulfurDioxide"
## [10] "Density"           "pH"                 "Sulphates"
## [13] "Alcohol"           "LabelAppeal"        "AcidIndex"
## [16] "STARS"
```


TARGET
FixedAcidity
VolatileAcidity
CitricAcid
ResidualSugar
Chlorides
FreeSulfurDioxide
TotalSulfurDioxide
Density
pH
Sulphates
Alcohol
LabelAppeal
AcidIndex
STARS



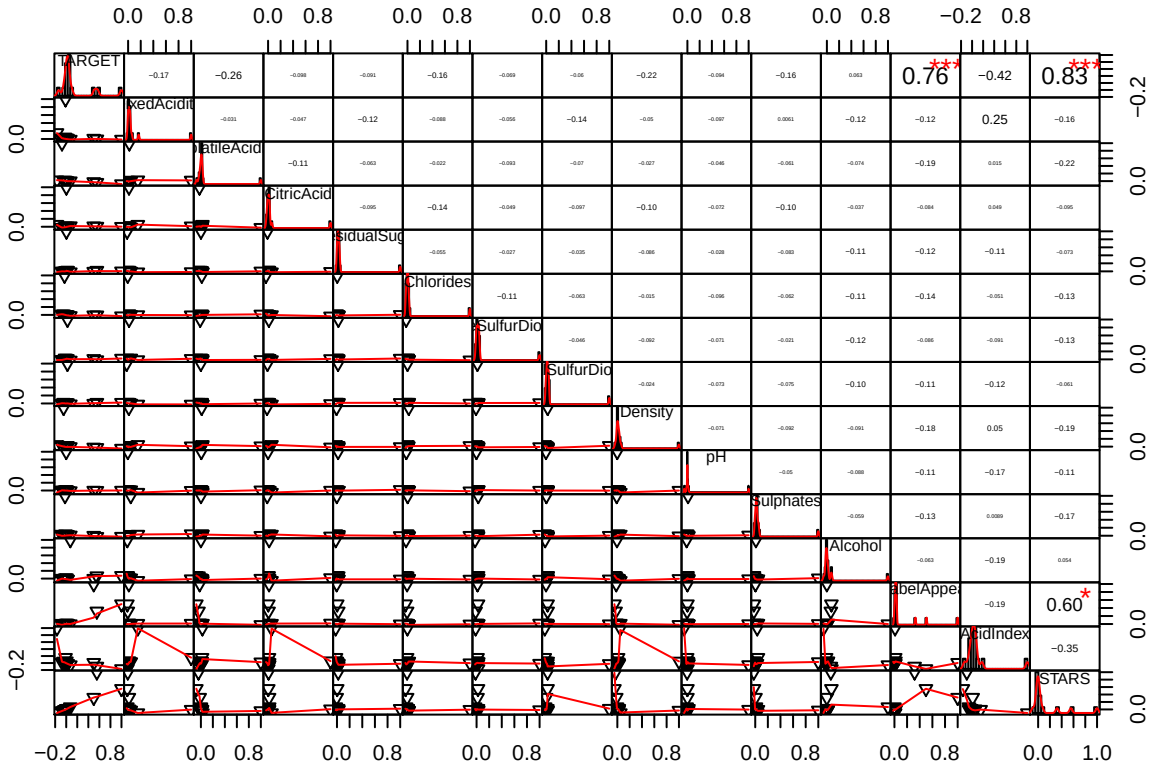
Majority of the variables appears to be numerical and normally distributed.Lets review the Ordinal variables here:

We have seen the *STARS* distribution previosly in *Missing Data* section, lets now review the *Acid Index*, and *LabelAppeal*, which can be treated as categorical similar to *STARS*:



Correlations

Lets visualize the correlation graph:



The above indicates the *STARS* and *LabelAppeal* are significant variables from correlation perspective. And *AcidIndex* and *VolatileAcidity* also got moderately correlated with the TARGET variable.

Data Preparation

Transform NAs

Factorize

lets take complete cases only, as we have got sufficient number of observations after we took care of the NAs for STARS and Alcohol variables.

```
## Observations: 9,133
## Variables: 15
## $ TARGET             <int> 3, 5, 3, 0, 0, 6, 0, 3, 4, 0, 4, 5, 4, 3, 2...
## $ FixedAcidity       <dbl> 4.5, 7.1, 5.7, 11.3, 7.7, 5.5, -17.2, 6.0, ...
## $ VolatileAcidity    <dbl> 0.160, 2.640, 0.385, 0.320, 0.290, -0.220, ...
## $ CitricAcid         <dbl> -0.81, -0.88, 0.04, 0.59, -0.40, 0.39, 0.15...
## $ ResidualSugar      <dbl> 26.10, 14.80, 18.80, 2.20, 21.50, 1.80, -33...
## $ Chlorides          <dbl> -0.425, 0.037, -0.425, 0.556, 0.060, -0.277...
## $ FreeSulfurDioxide  <dbl> 15, 214, 22, -37, 287, 62, 551, 5, -49, 15,...
## $ TotalSulfurDioxide <dbl> -327, 142, 115, 15, 156, 180, 65, 378, 45, ...
## $ Density            <dbl> 1.02792, 0.99518, 0.99640, 0.99940, 0.99572...
## $ pH                 <dbl> 3.38, 3.12, 2.24, 3.20, 3.49, 3.09, 4.31, 3...
## $ Sulphates          <dbl> 0.70, 0.48, 1.83, 1.29, 1.21, 0.75, 0.56, -...
```

```
## $ Alcohol            <dbl> 0.0, 22.0, 6.2, 15.4, 10.3, 12.6, 13.1, 3.9...
## $ LabelAppeal        <fctr> -1, -1, -1, 0, 0, 0, 1, 1, 0, 1, 0, 1, -1,...
## $ AcidIndex          <fctr> 7, 8, 6, 11, 8, 8, 5, 7, 9, 9, 8, 11, 8, 6...
## $ STARS              <fctr> 3, 3, 1, 0, 0, 4, 1, 2, 0, 0, 3, 2, 2, 1, ...
```

Multicollinearity

Lets check for Multicollinearity in the predictors:

	Multicolinearity score
AcidIndex7	216.4659703
AcidIndex8	201.6610282
AcidIndex9	92.2911942
AcidIndex6	77.1844205
AcidIndex10	39.3035671
AcidIndex11	19.5030397
AcidIndex12	10.5988711
AcidIndex5	5.5846113
AcidIndex13	5.2930521
AcidIndex14	4.5463148
LabelAppeal0	4.2704399
LabelAppeal-1	3.3390954
LabelAppeal1	3.2363811
AcidIndex17	1.5074415
AcidIndex16	1.2042507
AcidIndex15	1.1046126
STARS1	0.8934462
STARS2	0.8645223
LabelAppeal2	0.8417245
STARS3	0.6851982
FixedAcidity	0.3430885
STARS4	0.3388301
VolatileAcidity	0.3361709
TotalSulfurDioxide	0.3355376
Alcohol	0.3353972
ResidualSugar	0.3353051
Chlorides	0.3347751
pH	0.3346397
Sulphates	0.3338405
Density	0.3331687
FreeSulfurDioxide	0.3319512
CitricAcid	0.3305677

Multicollinearity noticed for AcidIndex dummy variables AcidIndex values 6, 7 , 8, 9, 10, 11, 12.

Lets try consolidating those rows and retry the vif again.

	Multicolinearity score
AcidIndex5	10.1576511
AcidIndex13	5.2928877
AcidIndex14	4.5462571
LabelAppeal0	4.2669710

	Multicolinearity score
LabelAppeal-1	3.3370975
LabelAppeal1	3.2315314
AcidIndex17	1.5074156
AcidIndex16	1.2042184
AcidIndex15	1.1046116
STARS1	0.8876861
STARS2	0.8534218
LabelAppeal2	0.8404632
STARS3	0.6715474
VolatileAcidity	0.3363584
FixedAcidity	0.3359405
Alcohol	0.3348208
ResidualSugar	0.3344179
TotalSulfurDioxide	0.3342609
STARS4	0.3340824
Chlorides	0.3339860
pH	0.3332575
Sulphates	0.3327584
FreeSulfurDioxide	0.3318813
Density	0.3317041
CitricAcid	0.3299254

The above variables looks good enough to proceed with model building.

Split the dataset into training and test:

We will randomly split our dataset into training (80%) and test (20%).

```
set.seed(3)
s = sample(1:nrow(wine.trn.omit.na), 0.8 * nrow(wine.trn.omit.na))
wine.training = wine.trn.omit.na[s, ]
wine.test = wine.trn.omit.na[-s, ]
```

Number of observations in *training* dataset is 7306

Number of observations in *test* dataset is 1827

Build Models

Poisson Model - Stepwise Backward

First, Include all variables and build the model. And then use the stepwise backward.

```
##                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)            1.54       0.52    2.97     0.00
## FixedAcidity           0.00       0.00   -1.78     0.08
## VolatileAcidity       -0.03       0.01   -3.61     0.00
## Chlorides             -0.04       0.02   -2.06     0.04
## FreeSulfurDioxide      0.00       0.00    2.46     0.01
## TotalSulfurDioxide     0.00       0.00    3.50     0.00
```

```
## Density               -0.49       0.25   -1.91     0.06
## Sulphates             -0.01       0.01   -1.88     0.06
## LabelAppeal-1          0.25       0.05    5.00     0.00
## LabelAppeal0           0.45       0.05    9.12     0.00
## LabelAppeal1           0.57       0.05   11.31     0.00
## LabelAppeal2           0.70       0.06   12.29     0.00
## AcidIndex5            -1.27       0.45   -2.83     0.00
## AcidIndex13           -1.74       0.46   -3.75     0.00
## AcidIndex14           -1.69       0.47   -3.58     0.00
## AcidIndex15           -1.36       0.53   -2.55     0.01
## AcidIndex16           -1.57       0.63   -2.48     0.01
## AcidIndex17           -1.97       0.63   -3.11     0.00
## STARS1                 0.80       0.03   30.87     0.00
## STARS2                 1.12       0.02   46.27     0.00
## STARS3                 1.25       0.03   49.51     0.00
## STARS4                 1.38       0.03   42.39     0.00
```

```
## TARGET ~ FixedAcidity + VolatileAcidity + Chlorides + FreeSulfurDioxide +
##     TotalSulfurDioxide + Density + Sulphates + LabelAppeal +
##     AcidIndex + STARS
```

We can notice that *STARS*, *LableAppeal*, *AcidIndex*, *VolatileAcidity* and *TotalSulfurDioxide* are the significant variables.

For example, for each one-unit increase in VolatileAcidity, the expected log count of the number of sample units sold is decreases by 0.03.

The factor variable shown as STARS4 is the expected difference in log count between group 4 and the reference group zero (/NA).

Lets check if there is overdispersion (c-hat, to check if mean exceeding the variance) here, (Residual Deviance)/(Residual df). (If c-hat is 1, then no overdispersion occur)

c-hat for overdispersion check is 1.079219

Poisson Model - Stepwise Forward

```
##                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)            1.54       0.52    2.97     0.00
## STARS1                 0.80       0.03   30.87     0.00
## STARS2                 1.12       0.02   46.27     0.00
## STARS3                 1.25       0.03   49.51     0.00
## STARS4                 1.38       0.03   42.39     0.00
## LabelAppeal-1          0.25       0.05    5.00     0.00
## LabelAppeal0           0.45       0.05    9.12     0.00
## LabelAppeal1           0.57       0.05   11.31     0.00
## LabelAppeal2           0.70       0.06   12.29     0.00
## AcidIndex5            -1.27       0.45   -2.83     0.00
## AcidIndex13           -1.74       0.46   -3.75     0.00
## AcidIndex14           -1.69       0.47   -3.58     0.00
## AcidIndex15           -1.36       0.53   -2.55     0.01
## AcidIndex16           -1.57       0.63   -2.48     0.01
## AcidIndex17           -1.97       0.63   -3.11     0.00
## VolatileAcidity       -0.03       0.01   -3.61     0.00
## TotalSulfurDioxide     0.00       0.00    3.50     0.00
```

```
## FreeSulfurDioxide      0.00       0.00    2.46     0.01
## Chlorides             -0.04       0.02   -2.06     0.04
## Density               -0.49       0.25   -1.91     0.06
## Sulphates             -0.01       0.01   -1.88     0.06
## FixedAcidity           0.00       0.00   -1.78     0.08
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity +
##     TotalSulfurDioxide + FreeSulfurDioxide + Chlorides + Density +
##     Sulphates + FixedAcidity
```

c-hat for overdispersion check is 1.079219

We notice the very similar results here. (Similar to Stepwise Backward), Hence the same interpretation applies here.

Poisson Model - Manual

Lets include only significant predictors noticed from the data exploration section.

```
##                 Estimate Std. Error z value Pr(>|z|)
## (Intercept)         1.02       0.45    2.28     0.02
## STARS1              0.81       0.03   31.08     0.00
## STARS2              1.12       0.02   46.54     0.00
## STARS3              1.26       0.03   49.89     0.00
## STARS4              1.38       0.03   42.59     0.00
## LabelAppeal-1       0.26       0.05    5.03     0.00
## LabelAppeal0        0.45       0.05    9.17     0.00
## LabelAppeal1        0.57       0.05   11.36     0.00
## LabelAppeal2        0.70       0.06   12.29     0.00
## AcidIndex5         -1.25       0.45   -2.79     0.01
## AcidIndex13        -1.74       0.46   -3.75     0.00
## AcidIndex14        -1.69       0.47   -3.58     0.00
## AcidIndex15        -1.34       0.53   -2.52     0.01
## AcidIndex16        -1.60       0.63   -2.53     0.01
## AcidIndex17        -2.02       0.63   -3.19     0.00
## VolatileAcidity    -0.03       0.01   -3.72     0.00
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity
```

We only included the above significant variables we noticed from our correlation here, so this model has got few co-efficients compared with the above.

c-hat for overdispersion check is 1.0829459

Negative Binomial Model - Stepwise Backward

Lets now try with Negative Binomial modeling, which fits greately for over-dispersed count outcome variables.

First, Include all variables and build the model. And then use the stepwise backward.

```
##                   Estimate Std. Error z value Pr(>|z|)
## (Intercept)           1.54       0.52    2.97     0.00
## FixedAcidity          0.00       0.00   -1.78     0.08
```

```
## VolatileAcidity       -0.03       0.01   -3.61     0.00
## Chlorides             -0.04       0.02   -2.06     0.04
## FreeSulfurDioxide      0.00       0.00    2.46     0.01
## TotalSulfurDioxide     0.00       0.00    3.50     0.00
## Density               -0.49       0.25   -1.91     0.06
## Sulphates             -0.01       0.01   -1.88     0.06
## LabelAppeal-1          0.25       0.05    5.00     0.00
## LabelAppeal0           0.45       0.05    9.12     0.00
## LabelAppeal1           0.57       0.05   11.31     0.00
## LabelAppeal2           0.70       0.06   12.29     0.00
## AcidIndex5            -1.27       0.45   -2.83     0.00
## AcidIndex13           -1.74       0.46   -3.75     0.00
## AcidIndex14           -1.69       0.47   -3.58     0.00
## AcidIndex15           -1.36       0.53   -2.55     0.01
## AcidIndex16           -1.57       0.63   -2.48     0.01
## AcidIndex17           -1.97       0.63   -3.11     0.00
## STARS1                 0.80       0.03   30.87     0.00
## STARS2                 1.12       0.02   46.27     0.00
## STARS3                 1.25       0.03   49.50     0.00
## STARS4                 1.38       0.03   42.38     0.00
```

```
## TARGET ~ FixedAcidity + VolatileAcidity + Chlorides + FreeSulfurDioxide +
##     TotalSulfurDioxide + Density + Sulphates + LabelAppeal +
##     AcidIndex + STARS
```

We noticed that our dataset do NOT has lot of overdispersion (based on poission model above), so the negative binomial results are very much close to the poission.

For example, for each one-unit increase in VolatileAcidity, the expected log count of the number of sample units sold is decreases by 0.031.

The factor variable shown as STARS1 is the expected difference [0.80] in log count between group 1 and the reference group zero (/NA).

Negative Binomial Model - Stepwise Forward

```
##                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)            1.54       0.52    2.97     0.00
## STARS1                 0.80       0.03   30.87     0.00
## STARS2                 1.12       0.02   46.27     0.00
## STARS3                 1.25       0.03   49.50     0.00
## STARS4                 1.38       0.03   42.38     0.00
## LabelAppeal-1          0.25       0.05    5.00     0.00
## LabelAppeal0           0.45       0.05    9.12     0.00
## LabelAppeal1           0.57       0.05   11.31     0.00
## LabelAppeal2           0.70       0.06   12.29     0.00
## AcidIndex5            -1.27       0.45   -2.83     0.00
## AcidIndex13           -1.74       0.46   -3.75     0.00
## AcidIndex14           -1.69       0.47   -3.58     0.00
## AcidIndex15           -1.36       0.53   -2.55     0.01
## AcidIndex16           -1.57       0.63   -2.48     0.01
## AcidIndex17           -1.97       0.63   -3.11     0.00
## VolatileAcidity       -0.03       0.01   -3.61     0.00
## TotalSulfurDioxide     0.00       0.00    3.50     0.00
```

```
## FreeSulfurDioxide      0.00       0.00    2.46     0.01
## Chlorides             -0.04       0.02   -2.06     0.04
## Density               -0.49       0.25   -1.91     0.06
## Sulphates             -0.01       0.01   -1.88     0.06
## FixedAcidity           0.00       0.00   -1.78     0.08
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity +
##     TotalSulfurDioxide + FreeSulfurDioxide + Chlorides + Density +
##     Sulphates + FixedAcidity
```

This provides us with the similar results as Stepwise Backward.

Negative Binomial Model - Manual

Lets include only significant predictors noticed from the data exploration section.

```
##                 Estimate Std. Error z value Pr(>|z|)
## (Intercept)         1.02       0.45    2.27     0.02
## STARS1              0.81       0.03   31.08     0.00
## STARS2              1.12       0.02   46.54     0.00
## STARS3              1.26       0.03   49.89     0.00
## STARS4              1.38       0.03   42.59     0.00
## LabelAppeal-1       0.26       0.05    5.03     0.00
## LabelAppeal0        0.45       0.05    9.17     0.00
## LabelAppeal1        0.57       0.05   11.36     0.00
## LabelAppeal2        0.70       0.06   12.29     0.00
## AcidIndex5         -1.25       0.45   -2.79     0.01
## AcidIndex13        -1.74       0.46   -3.75     0.00
## AcidIndex14        -1.69       0.47   -3.58     0.00
## AcidIndex15        -1.34       0.53   -2.52     0.01
## AcidIndex16        -1.60       0.63   -2.53     0.01
## AcidIndex17        -2.02       0.63   -3.19     0.00
## VolatileAcidity    -0.03       0.01   -3.72     0.00
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity
```

We only included the above significant variables we noticed from our correlation here, so this model has got few co-efficients compared with the above.

Linear Model - Stepwise Backward

Lets now just try with multiple linear regression model, and see the outcome.

```
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)            5.14       1.45    3.54     0.00
## FixedAcidity          -0.01       0.00   -2.24     0.02
## VolatileAcidity       -0.10       0.02   -4.96     0.00
## Chlorides             -0.14       0.05   -2.79     0.01
## FreeSulfurDioxide      0.00       0.00    3.18     0.00
## TotalSulfurDioxide     0.00       0.00    4.75     0.00
## Density               -1.49       0.59   -2.53     0.01
```

```
## Sulphates             -0.04       0.02   -2.15     0.03
## Alcohol                0.01       0.00    1.57     0.12
## LabelAppeal-1          0.40       0.09    4.64     0.00
## LabelAppeal0           0.88       0.08   10.58     0.00
## LabelAppeal1           1.30       0.09   14.92     0.00
## LabelAppeal2           1.85       0.12   16.05     0.00
## AcidIndex5            -3.25       1.33   -2.45     0.01
## AcidIndex13           -4.32       1.34   -3.22     0.00
## AcidIndex14           -3.87       1.34   -2.88     0.00
## AcidIndex15           -3.36       1.43   -2.35     0.02
## AcidIndex16           -3.99       1.53   -2.61     0.01
## AcidIndex17           -4.40       1.45   -3.03     0.00
## STARS1                 1.45       0.04   32.87     0.00
## STARS2                 2.48       0.04   58.08     0.00
## STARS3                 3.08       0.05   62.90     0.00
## STARS4                 3.78       0.08   46.86     0.00
```

```
## TARGET ~ FixedAcidity + VolatileAcidity + Chlorides + FreeSulfurDioxide +
##     TotalSulfurDioxide + Density + Sulphates + Alcohol + LabelAppeal +
##     AcidIndex + STARS
```

Linear Model - Stepwise Forward

```
##                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)            5.14       1.45    3.54     0.00
## STARS1                 1.45       0.04   32.87     0.00
## STARS2                 2.48       0.04   58.08     0.00
## STARS3                 3.08       0.05   62.90     0.00
## STARS4                 3.78       0.08   46.86     0.00
## LabelAppeal-1          0.40       0.09    4.64     0.00
## LabelAppeal0           0.88       0.08   10.58     0.00
## LabelAppeal1           1.30       0.09   14.92     0.00
## LabelAppeal2           1.85       0.12   16.05     0.00
## AcidIndex5            -3.25       1.33   -2.45     0.01
## AcidIndex13           -4.32       1.34   -3.22     0.00
## AcidIndex14           -3.87       1.34   -2.88     0.00
## AcidIndex15           -3.36       1.43   -2.35     0.02
## AcidIndex16           -3.99       1.53   -2.61     0.01
## AcidIndex17           -4.40       1.45   -3.03     0.00
## VolatileAcidity       -0.10       0.02   -4.96     0.00
## TotalSulfurDioxide     0.00       0.00    4.75     0.00
## FreeSulfurDioxide      0.00       0.00    3.18     0.00
## Chlorides             -0.14       0.05   -2.79     0.01
## Density               -1.49       0.59   -2.53     0.01
## FixedAcidity          -0.01       0.00   -2.24     0.02
## Sulphates             -0.04       0.02   -2.15     0.03
## Alcohol                0.01       0.00    1.57     0.12
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity +
##     TotalSulfurDioxide + FreeSulfurDioxide + Chlorides + Density +
##     FixedAcidity + Sulphates + Alcohol
```

Linear Model - Manual

```
##                 Estimate Std. Error t value Pr(>|t|)
## (Intercept)         3.66       1.33    2.75     0.01
## STARS1              1.47       0.04   33.11     0.00
## STARS2              2.50       0.04   58.42     0.00
## STARS3              3.11       0.05   63.43     0.00
## STARS4              3.81       0.08   47.03     0.00
## LabelAppeal-1       0.40       0.09    4.65     0.00
## LabelAppeal0        0.89       0.08   10.60     0.00
## LabelAppeal1        1.30       0.09   14.89     0.00
## LabelAppeal2        1.85       0.12   15.96     0.00
## AcidIndex5         -3.23       1.33   -2.43     0.02
## AcidIndex13        -4.36       1.35   -3.23     0.00
## AcidIndex14        -3.92       1.35   -2.91     0.00
## AcidIndex15        -3.35       1.44   -2.33     0.02
## AcidIndex16        -4.06       1.54   -2.65     0.01
## AcidIndex17        -4.48       1.46   -3.07     0.00
## VolatileAcidity    -0.10       0.02   -5.04     0.00
```

```
## TARGET ~ STARS + LabelAppeal + AcidIndex + VolatileAcidity
```

Model Selection

Lets prepare a validation results data frame by deriving the validation metrics like, RMSE, R^2 (for linear model only) and AIC and number of coefficients etc., to help decide a better model out of the above 9 models.

ModelType	RMSE	Adj_R2	AIC	Coefs
Poisson - Stepwise Backward	2.5827	NA	26200.19	21
Poisson - Stepwise Forward	2.5827	NA	26200.19	21
Poisson - Manual	2.5833	NA	26221.83	15
Negative Binomial - Backward	2.5827	NA	26202.43	21
Negative Binomial - Forward	2.5827	NA	26202.43	21
Negative Binomial - Manual	2.5833	NA	26224.08	15
Linear - Stepwise Backward	1.3576	0.52	24869.78	22
Linear - Stepwise Forward	1.3576	0.52	24869.78	22
Linear - Manual	1.3632	0.52	24916.90	15

Since we are comparing different types of models, its tricky to select a common metric for these.

For our evaluation, lets consider the model that had least RMSE, AIC - which in our case is the linear model (both barkward and forward resluted in the same metrics)

Evaluation

Lets do the data transformation first for our eval data frame, and then predict.

```
## Observations: 3,335
## Variables: 16
## $ IN                <int> 3, 9, 10, 18, 21, 30, 31, 37, 39, 47, 60, 6...
## $ TARGET            <lgl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA,...
```

```
## $ FixedAcidity       <dbl> 5.4, 12.4, 7.2, 6.2, 11.4, 17.6, 15.5, 15.9...
## $ VolatileAcidity    <dbl> -0.860, 0.385, 1.750, 0.100, 0.210, 0.040, ...
## $ CitricAcid         <dbl> 0.27, -0.76, 0.17, 1.80, 0.28, -1.15, -0.53...
## $ ResidualSugar      <dbl> -10.70, -19.70, -33.00, 1.00, 1.20, 1.40, 4...
## $ Chlorides          <dbl> 0.092, 1.169, 0.065, -0.179, 0.038, 0.535, ...
## $ FreeSulfurDioxide  <dbl> 23, -37, 9, 104, 70, -250, 10, 115, 35, 40,...
## $ TotalSulfurDioxide <dbl> 398, 68, 76, 89, 53, 140, 17, 381, 83, 129,...
## $ Density            <dbl> 0.98527, 0.99048, 1.04641, 0.98877, 1.02899...
## $ pH                 <dbl> 5.02, 3.37, 4.61, 3.20, 2.54, 3.06, 3.07, 2...
## $ Sulphates          <dbl> 0.64, 1.09, 0.68, 2.11, -0.07, -0.02, 0.75,...
## $ Alcohol            <dbl> 12.30, 16.00, 8.55, 12.30, 4.80, 11.40, 8.5...
## $ LabelAppeal        <int> -1, 0, 0, -1, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0,...
## $ AcidIndex          <int> 6, 6, 8, 8, 10, 8, 12, 7, 12, 7, 8, 10, 9, ...
## $ STARS              <int> NA, 2, 1, 1, NA, 4, 3, NA, NA, NA, 1, NA, 2...
```

INDEX	STARS	LabelAppeal	TARGET
3	0	-1	1
9	2	0	4
10	1	0	3
18	1	-1	2
21	0	0	1
30	4	1	5
31	3	0	4
37	0	1	2
39	0	0	1
47	0	0	2
60	1	0	NA
62	0	1	1
63	2	0	4
64	0	0	NA
68	0	-1	1
75	2	-1	3
76	1	-1	3
83	0	1	0
87	2	0	4
92	3	1	5
98	2	-2	3
106	0	0	1
107	0	2	2
113	1	-1	2
120	2	0	4
123	2	2	5
125	2	-1	3
126	4	1	5
128	4	0	5
129	1	-1	2
131	3	0	NA
135	0	1	2
141	3	0	5
147	1	0	3
148	0	-1	1
151	2	0	4
156	1	1	3

INDEX	STARS	LabelAppeal	TARGET
157	3	-1	4
174	0	-1	1
186	0	1	2
193	1	-1	2
195	0	0	NA
212	0	0	1
213	0	0	1
217	1	0	NA
223	2	0	4
226	1	0	3
228	2	1	4
230	3	0	4
241	1	0	3
243	2	0	4
249	0	0	1
281	3	0	5
288	0	0	1
294	1	-2	2
295	1	-2	2
300	2	2	NA
302	2	1	4
303	0	0	1
308	0	-1	1
319	2	1	NA
320	0	0	NA
324	1	0	NA
331	1	-1	2
343	1	0	3
347	1	-1	2
348	2	0	4
350	2	1	4
357	0	-2	0
358	2	0	4
360	3	0	NA
366	1	1	3
367	1	-1	2
368	3	1	5
376	1	-1	2
380	1	0	3
388	0	-2	0
396	2	1	NA
398	4	0	5
403	3	0	NA
410	1	0	3
412	0	2	3
420	1	-1	2
434	1	-1	2
440	1	0	3
450	2	0	4
453	1	0	3
464	4	0	5
465	2	1	NA

INDEX	STARS	LabelAppeal	TARGET
466	4	0	5
473	1	-1	2
476	0	0	1
478	0	0	1
479	2	-1	4
493	1	-1	2
497	3	-1	NA
503	2	0	4
504	2	0	3
505	2	-2	3
507	0	1	2
513	1	0	2
519	1	-1	2
521	2	0	4
522	2	0	4
545	1	0	NA
549	0	0	2
551	0	0	1
556	3	2	NA
557	4	1	6
559	0	-1	1
560	1	-1	NA
566	2	0	4
569	2	1	4
573	1	-1	NA
578	0	0	1
579	3	1	NA
582	3	1	5
596	3	0	NA
598	1	-1	NA
599	0	-1	1
602	1	0	3
605	0	-1	1
617	1	-1	NA
619	4	1	5
630	1	1	3
634	2	0	4
643	1	-1	NA
645	0	-1	1
647	2	1	4
649	1	1	3
656	2	0	4
657	3	1	5
658	1	0	NA
667	3	-1	4
692	1	0	NA
693	3	0	4
698	0	1	1
699	2	0	4
700	4	2	NA
704	2	-1	3
707	1	1	NA

INDEX	STARS	LabelAppeal	TARGET
708	2	1	4
709	1	0	3
713	0	-1	1
714	2	-1	3
716	1	-1	2
718	2	0	4
722	3	0	4
729	3	2	NA
731	1	0	3
733	2	0	4
746	1	0	3
747	2	0	4
748	0	-1	NA
753	0	-1	NA
757	0	-1	1
763	2	-1	3
767	3	1	5
774	1	0	3
776	0	1	2
788	0	0	1
794	2	0	4
799	0	0	2
803	3	0	4
806	3	0	4
807	2	0	4
811	3	0	5
816	3	2	NA
818	2	0	4
819	0	-1	1
831	3	1	5
835	3	1	5
837	0	-1	1
841	0	1	NA
846	0	-1	1
856	4	1	NA
861	2	1	4
862	0	2	NA
863	2	-1	3
865	2	0	NA
871	1	-1	2
879	0	0	1
880	1	-1	2
881	2	0	4
885	2	0	4
887	1	0	NA
892	0	1	NA
898	2	0	4
900	0	-2	0
904	0	0	NA
906	3	1	5
910	2	0	4
912	3	0	4

INDEX	STARS	LabelAppeal	TARGET
913	1	-1	2
919	4	0	5
924	0	-1	NA
925	1	0	3
930	2	-1	3
940	1	-2	NA
941	1	1	3
946	0	0	1
949	3	1	5
951	0	-1	1
962	2	0	4
966	1	-1	2
967	4	0	5
971	0	1	2
981	3	-1	4
982	2	-1	NA
983	0	0	1
984	0	1	2
989	2	-2	3
990	2	1	4
992	1	0	3
995	3	1	5
996	0	-1	1
998	0	-1	1
1001	4	-1	5
1007	0	0	1
1008	1	-1	NA
1016	1	-1	2
1022	1	-1	NA
1027	3	1	5
1032	0	1	NA
1033	2	0	3
1041	3	1	5
1065	0	-1	NA
1074	0	0	2
1075	0	0	1
1081	0	-1	1
1094	3	0	4
1099	2	-1	3
1105	1	0	3
1123	0	1	2
1135	0	0	NA
1142	1	-1	2
1155	1	-1	2
1169	1	0	NA
1176	1	1	NA
1178	2	0	4
1180	2	0	4
1184	0	0	1
1185	0	-1	1
1193	0	0	1
1196	0	-1	1

INDEX	STARS	LabelAppeal	TARGET
1199	0	-2	1
1203	2	-1	3
1205	1	-1	2
1207	1	-1	2
1208	0	0	1
1212	0	-2	NA
1213	0	0	NA
1222	0	-1	1
1223	0	0	1
1226	3	0	4
1227	3	2	5
1229	0	-1	1
1230	3	0	4
1231	1	0	3
1241	0	-1	1
1243	3	0	4
1244	4	1	6
1246	3	0	5
1248	1	-1	2
1249	2	0	4
1252	2	0	4
1261	1	1	3
1275	3	-1	4
1281	0	0	2
1285	3	0	NA
1288	0	1	2
1290	2	0	4
1291	0	0	1
1304	2	1	4
1305	3	-2	4
1323	2	1	4
1342	0	0	NA
1348	1	-1	NA
1353	2	0	4
1363	2	-1	3
1371	2	0	4
1372	0	-1	1
1378	0	0	1
1381	3	0	4
1382	3	0	4
1393	2	1	NA
1394	3	1	5
1398	3	2	5
1404	1	1	NA
1405	2	0	4
1419	0	0	1
1421	2	-2	3
1426	0	-1	1
1431	0	0	NA
1435	2	-1	NA
1437	0	0	1
1438	0	1	NA

INDEX	STARS	LabelAppeal	TARGET
1442	0	-2	NA
1464	0	-1	NA
1471	1	1	NA
1473	2	1	4
1476	2	-1	3
1478	1	-1	2
1479	2	0	4
1487	3	1	5
1492	2	1	4
1496	2	-1	3
1497	0	1	2
1515	1	0	NA
1519	0	0	1
1522	2	-1	3
1526	1	1	3
1537	1	0	3
1538	3	0	5
1540	1	-1	2
1543	2	0	NA
1548	0	-1	1
1549	0	0	1
1556	2	-1	3
1564	0	0	2
1570	3	-1	4
1577	1	-1	2
1585	3	0	4
1590	2	1	4
1592	0	-1	1
1594	0	-1	1
1596	4	2	6
1598	4	0	5
1603	0	0	2
1607	0	-1	1
1612	4	1	6
1627	2	1	4
1629	1	1	3
1630	2	-1	3
1640	4	1	5
1641	3	0	4
1646	2	0	4
1662	0	1	2
1668	0	0	NA
1671	0	1	2
1672	3	0	5
1673	4	1	NA
1686	2	0	4
1688	3	0	4
1696	3	-1	4
1701	4	0	5
1707	2	0	NA
1708	1	1	3
1713	2	0	4

INDEX	STARS	LabelAppeal	TARGET
1715	3	-1	NA
1717	1	0	3
1721	2	-1	3
1724	1	0	NA
1725	2	-1	3
1730	2	0	4
1731	3	0	4
1734	1	2	4
1740	1	1	3
1748	1	0	3
1749	2	1	4
1750	4	1	5
1763	1	0	3
1768	3	0	4
1773	1	-1	NA
1777	0	1	2
1778	0	0	1
1780	1	0	3
1782	0	0	1
1784	2	1	4
1786	2	0	4
1787	2	1	NA
1792	0	0	1
1800	1	-1	NA
1801	2	-1	3
1803	1	0	3
1804	3	-1	4
1807	1	-1	2
1818	3	2	5
1821	1	1	3
1822	3	0	5
1828	1	0	3
1833	2	0	4
1844	3	0	4
1847	1	0	3
1850	1	-1	2
1854	2	0	4
1858	3	1	5
1864	3	0	4
1867	1	0	NA
1876	1	0	NA
1880	0	0	NA
1881	1	-1	NA
1891	1	0	3
1894	2	0	NA
1895	2	1	4
1901	0	1	NA
1905	2	1	4
1912	3	2	5
1918	2	-1	3
1921	2	0	4
1923	2	-1	3

INDEX	STARS	LabelAppeal	TARGET
1924	0	1	2
1931	1	-1	NA
1941	3	0	4
1950	0	-2	1
1951	3	0	5
1954	2	1	4
1961	2	0	4
1966	2	0	NA
1979	2	0	4
1982	0	0	NA
1987	1	0	3
1997	1	0	NA
2004	3	0	4
2011	4	0	5
2015	1	1	3
2025	4	2	6
2033	0	0	NA
2034	2	1	4
2035	0	0	NA
2036	0	-2	1
2053	1	0	3
2059	3	-1	NA
2060	0	-1	1
2073	1	0	NA
2084	1	0	3
2089	3	-1	4
2092	0	-1	1
2109	4	0	5
2129	3	1	5
2134	3	2	5
2135	2	1	4
2148	1	1	NA
2149	0	1	NA
2150	1	-1	2
2165	1	0	3
2166	1	0	NA
2168	4	0	NA
2170	0	-2	0
2171	1	-1	2
2172	1	1	3
2176	3	1	5
2182	2	-1	3
2189	1	-1	2
2191	2	1	NA
2197	1	0	3
2202	0	1	2
2203	2	0	4
2204	0	-1	0
2206	2	1	4
2218	1	0	3
2219	2	0	4
2221	0	0	1

INDEX	STARS	LabelAppeal	TARGET
2226	0	0	1
2228	2	-1	NA
2232	2	0	NA
2236	0	0	1
2241	1	-1	2
2245	3	1	5
2251	3	-1	NA
2255	3	1	5
2256	2	0	4
2259	0	0	1
2263	2	0	4
2264	2	0	NA
2267	0	0	1
2273	1	-1	2
2277	2	1	4
2287	3	0	5
2289	2	-1	3
2291	0	-1	1
2296	1	-1	2
2299	0	-1	NA
2306	2	-1	3
2314	0	1	2
2317	1	-1	2
2318	3	0	4
2321	3	0	4
2324	2	1	NA
2340	2	-1	3
2343	2	-2	NA
2349	0	-1	1
2352	3	1	5
2353	0	-1	1
2365	1	0	3
2370	0	0	NA
2378	2	-1	NA
2390	0	-1	1
2399	0	1	2
2402	0	0	1
2403	0	1	2
2404	0	0	1
2414	3	1	5
2422	2	0	4
2424	0	1	1
2430	2	0	4
2435	2	-1	3
2439	0	0	NA
2442	2	1	4
2445	2	0	4
2449	0	1	2
2451	0	0	1
2461	1	1	3
2464	2	0	NA
2465	2	0	4

INDEX	STARS	LabelAppeal	TARGET
2472	2	-1	3
2476	1	-1	2
2482	1	0	3
2487	3	1	5
2498	2	1	4
2501	2	0	NA
2504	1	0	3
2511	0	0	1
2518	3	1	5
2521	3	1	NA
2530	2	-1	3
2543	2	1	4
2545	2	1	4
2561	3	-1	NA
2566	2	0	NA
2572	1	0	3
2577	1	1	3
2578	0	0	1
2580	1	1	3
2581	3	0	4
2582	2	1	4
2584	1	0	NA
2590	3	0	4
2598	2	-1	3
2602	0	0	NA
2605	3	1	5
2616	2	0	4
2618	2	0	3
2619	0	-1	1
2624	3	1	5
2632	0	0	1
2640	2	0	4
2646	3	0	4
2651	0	1	NA
2660	0	0	1
2661	3	-1	4
2668	0	-2	0
2670	0	1	2
2680	1	1	3
2681	2	-1	4
2689	0	0	NA
2694	2	2	5
2695	0	0	NA
2696	1	0	NA
2702	1	0	3
2704	2	0	4
2708	4	1	5
2709	1	1	3
2714	3	0	NA
2716	2	1	NA
2723	0	0	1
2725	2	-1	NA

INDEX	STARS	LabelAppeal	TARGET
2738	0	2	NA
2750	2	0	4
2756	0	0	1
2758	3	0	4
2766	1	0	NA
2767	0	1	2
2771	2	-2	3
2775	2	0	4
2776	2	-1	NA
2779	0	0	1
2780	1	0	3
2781	0	0	1
2782	3	0	4
2783	2	0	4
2796	2	0	4
2798	2	2	5
2800	1	1	NA
2803	4	2	6
2806	3	1	NA
2813	2	-1	4
2818	0	-1	1
2821	3	1	5
2825	3	0	4
2829	1	-1	2
2830	1	0	3
2833	3	0	4
2839	0	-1	NA
2843	4	0	5
2846	2	1	4
2847	1	1	3
2848	4	1	NA
2856	1	1	NA
2863	0	1	1
2867	3	1	5
2869	2	0	4
2873	3	0	4
2874	2	0	4
2875	2	-1	3
2880	0	-1	1
2886	3	-1	4
2887	2	0	NA
2888	2	0	4
2889	1	-1	2
2890	0	1	2
2892	0	-1	1
2901	1	1	NA
2902	1	0	3
2905	1	-1	2
2917	1	0	NA
2922	1	0	3
2924	1	2	4
2930	0	2	2

INDEX	STARS	LabelAppeal	TARGET
2931	3	1	5
2946	0	-1	1
2955	2	0	4
2962	2	-1	NA
2964	0	0	1
2965	0	0	1
2967	2	2	5
2970	4	1	5
2973	3	2	6
2974	0	-1	1
2976	0	0	1
2977	0	0	1
2978	0	0	NA
2986	3	0	5
2988	3	1	5
2989	0	1	NA
2995	2	0	4
3005	3	1	5
3011	3	1	5
3013	1	0	3
3019	2	0	NA
3021	1	-2	2
3022	3	1	5
3029	0	-1	1
3037	2	0	4
3042	1	-1	2
3043	2	0	4
3049	2	0	4
3050	4	1	5
3053	0	-1	1
3058	0	0	1
3062	0	1	2
3063	3	0	NA
3065	0	1	NA
3080	1	-1	3
3088	0	1	NA
3093	0	-1	1
3096	3	1	NA
3101	4	1	6
3103	0	-2	0
3107	3	2	5
3109	3	0	4
3111	4	1	6
3113	2	1	4
3116	3	1	5
3132	1	0	NA
3141	3	1	5
3153	0	0	NA
3154	0	0	1
3160	0	0	1
3167	0	1	2
3170	2	-1	3

INDEX	STARS	LabelAppeal	TARGET
3173	1	-1	2
3174	2	0	4
3177	3	1	5
3179	3	0	NA
3184	0	-1	1
3190	1	0	NA
3193	3	0	NA
3199	3	0	5
3201	0	0	NA
3202	1	-1	2
3203	1	1	3
3206	2	-1	NA
3209	2	-1	3
3210	1	0	2
3217	3	0	5
3220	3	0	NA
3228	1	-1	NA
3232	1	0	3
3239	0	0	NA
3243	2	0	4
3245	1	0	3
3246	2	1	NA
3251	4	0	5
3253	4	0	5
3257	3	0	NA
3260	0	0	1
3261	1	1	3
3263	3	1	5
3278	2	0	4
3281	1	0	3
3283	3	1	5
3290	1	-1	2
3297	2	0	4
3304	3	0	4
3305	2	-1	3
3307	2	2	5
3308	1	1	3
3313	1	1	3
3314	1	0	3
3317	0	2	2
3348	0	1	2
3350	1	-1	2
3359	2	0	4
3367	3	0	4
3376	1	0	3
3378	3	-1	4
3384	0	0	1
3386	1	0	3
3387	2	0	NA
3388	2	-1	3
3390	2	1	4
3391	0	0	1

INDEX	STARS	LabelAppeal	TARGET
3396	0	-1	0
3398	2	0	4
3404	4	0	5
3406	0	1	2
3407	1	1	3
3414	3	1	5
3419	2	-1	3
3423	1	-1	NA
3427	1	0	3
3432	0	0	0
3434	1	0	3
3438	0	0	1
3442	0	0	1
3443	0	0	1
3448	0	0	1
3456	2	-1	3
3464	4	1	5
3470	0	0	1
3475	2	0	4
3477	3	-1	NA
3490	1	0	NA
3493	2	0	4
3502	2	-1	NA
3508	3	0	NA
3516	0	-1	NA
3517	3	1	NA
3525	1	0	NA
3532	2	0	4
3535	2	0	NA
3536	2	1	4
3540	2	-1	3
3547	1	0	3
3550	3	-1	4
3557	1	-1	NA
3562	0	-1	1
3563	2	-1	3
3564	0	-1	1
3570	1	1	3
3573	1	1	NA
3577	1	1	3
3579	3	-1	NA
3581	0	-1	1
3587	2	0	4
3602	3	-1	4
3609	2	0	4
3612	2	1	5
3621	1	1	3
3642	0	1	NA
3647	0	0	1
3649	1	0	NA
3654	1	0	NA
3660	2	1	4

INDEX	STARS	LabelAppeal	TARGET
3665	3	0	NA
3669	2	0	4
3673	2	0	4
3675	0	0	1
3678	2	0	4
3680	1	1	3
3686	3	2	5
3693	2	1	4
3710	1	0	3
3713	3	0	4
3718	3	1	NA
3725	2	-1	3
3726	1	1	3
3747	1	0	3
3753	0	0	2
3754	4	0	5
3760	4	0	5
3763	1	-1	2
3765	3	0	4
3769	4	0	5
3771	2	0	4
3784	1	1	3
3787	2	1	NA
3794	0	0	1
3796	2	0	4
3798	2	1	4
3809	2	0	4
3812	3	1	5
3819	0	-2	0
3828	3	0	NA
3831	3	1	5
3833	1	1	3
3837	3	1	5
3839	0	-1	1
3843	0	0	1
3846	2	0	NA
3854	3	1	5
3861	0	0	1
3864	2	0	4
3868	1	0	3
3869	3	1	5
3870	1	0	3
3883	1	-1	2
3886	1	0	3
3889	2	0	NA
3894	0	-1	1
3907	1	0	3
3910	2	0	4
3913	0	0	1
3914	1	0	3
3921	2	2	5
3923	0	1	2

INDEX	STARS	LabelAppeal	TARGET
3929	2	-2	3
3931	0	-2	1
3932	3	1	5
3937	0	0	NA
3943	1	1	3
3956	2	1	4
3957	1	0	3
3961	4	1	6
3971	1	1	3
4004	0	-1	1
4005	1	1	3
4006	3	0	4
4011	1	-1	2
4013	3	1	5
4014	3	2	5
4016	0	-1	1
4017	3	1	5
4020	1	0	NA
4022	2	0	4
4026	0	0	1
4032	0	-1	1
4043	1	-1	2
4045	1	1	3
4048	3	1	5
4051	3	1	NA
4052	2	0	4
4056	2	-1	3
4059	1	0	2
4069	3	1	NA
4074	2	0	4
4076	1	0	3
4077	0	-1	NA
4079	1	0	NA
4081	2	0	NA
4088	0	0	1
4105	1	1	NA
4125	2	0	4
4134	2	-1	3
4139	1	0	3
4146	1	-1	2
4149	3	0	NA
4151	0	1	2
4155	1	0	NA
4157	1	1	3
4168	3	1	NA
4170	1	-1	2
4174	1	-1	2
4179	3	1	5
4185	3	0	4
4199	0	-1	1
4205	0	0	1
4208	1	1	NA

INDEX	STARS	LabelAppeal	TARGET
4211	2	-2	3
4212	0	-1	0
4215	1	0	3
4217	2	-1	NA
4219	0	0	1
4226	3	0	4
4227	2	-1	NA
4229	0	-1	1
4231	1	0	3
4233	0	-1	1
4237	1	0	NA
4243	2	1	4
4248	3	0	5
4255	3	1	5
4262	1	-1	2
4266	0	-1	1
4268	0	1	2
4270	1	-1	NA
4273	0	1	NA
4276	2	1	4
4277	2	0	4
4279	1	-1	NA
4299	2	0	3
4313	0	1	2
4322	3	0	NA
4324	0	0	1
4328	2	-1	3
4331	1	0	3
4335	1	-1	2
4337	2	0	4
4338	0	-1	1
4343	1	-1	2
4347	1	-2	2
4355	2	0	4
4357	1	0	NA
4359	4	1	5
4362	1	-2	NA
4368	1	-1	2
4374	3	1	NA
4375	3	1	5
4378	2	0	4
4381	0	0	1
4387	2	1	4
4400	1	-1	2
4423	2	1	4
4424	1	0	NA
4428	3	0	5
4433	3	2	6
4436	0	-1	NA
4437	0	0	1
4439	4	1	6
4449	2	0	4

INDEX	STARS	LabelAppeal	TARGET
4456	2	0	4
4463	4	1	6
4467	1	-1	NA
4468	0	0	1
4469	1	0	3
4472	2	0	4
4473	3	0	4
4476	1	0	3
4500	1	-1	3
4509	2	0	4
4513	1	-1	NA
4521	0	0	1
4527	1	0	3
4530	1	-2	2
4532	1	1	3
4533	2	-1	3
4535	1	-1	2
4536	3	1	5
4542	2	0	4
4551	1	0	3
4554	2	0	4
4555	1	-2	2
4564	0	0	1
4572	1	-1	NA
4573	4	2	6
4577	0	-1	1
4579	3	1	NA
4583	2	0	NA
4584	4	1	5
4596	2	-1	3
4599	2	0	4
4607	2	0	4
4609	0	-1	1
4610	0	0	1
4616	1	-2	2
4617	1	0	3
4633	3	0	5
4638	2	0	NA
4641	1	0	NA
4653	4	2	6
4655	3	0	4
4659	0	1	2
4669	0	-1	1
4678	0	0	1
4685	2	1	4
4686	2	0	NA
4691	0	-1	1
4695	2	1	4
4698	2	0	4
4700	4	0	5
4711	2	-1	3
4722	3	0	NA

INDEX	STARS	LabelAppeal	TARGET
4727	3	-1	4
4756	4	1	6
4762	0	0	1
4763	2	-1	NA
4766	4	0	5
4770	0	0	1
4784	3	-1	4
4791	1	1	3
4795	3	1	5
4799	0	-1	1
4802	3	0	4
4805	2	0	4
4814	2	1	4
4816	0	0	1
4817	2	0	4
4822	1	0	3
4827	1	-1	2
4833	4	0	5
4836	0	1	1
4842	1	0	NA
4844	1	0	NA
4845	1	-1	2
4849	3	0	4
4850	0	0	1
4860	3	0	4
4863	1	0	3
4871	2	0	4
4878	2	0	4
4881	1	0	3
4888	1	2	NA
4900	4	2	6
4906	1	1	3
4909	0	1	NA
4916	2	1	4
4918	4	1	5
4926	1	0	NA
4928	1	-1	NA
4941	1	0	3
4946	3	0	5
4949	0	0	1
4956	1	0	3
4966	3	0	4
4969	1	0	3
4973	2	0	4
4978	3	1	5
4982	2	0	3
4985	2	1	4
4991	1	1	3
4998	2	0	4
5000	1	-1	2
5004	2	0	NA
5005	1	-1	2

INDEX	STARS	LabelAppeal	TARGET
5011	2	1	4
5016	0	0	0
5018	3	-1	4
5034	2	0	4
5038	0	0	1
5042	3	2	NA
5046	1	0	3
5051	0	0	NA
5054	0	0	NA
5057	3	0	4
5062	2	0	4
5063	2	1	NA
5065	1	0	NA
5066	0	-1	1
5076	1	-1	2
5089	2	-1	3
5092	2	-2	3
5093	3	0	4
5094	3	0	4
5098	2	0	4
5102	3	-2	4
5112	3	1	5
5117	1	0	3
5127	2	0	NA
5130	1	-1	2
5131	1	-1	2
5132	2	0	NA
5135	0	0	1
5136	1	0	NA
5147	2	1	4
5157	2	0	4
5160	1	-1	2
5165	0	-1	1
5166	0	0	1
5172	1	-1	2
5173	1	-1	2
5179	0	0	NA
5184	3	1	5
5187	1	-1	NA
5191	1	0	3
5193	0	-1	1
5194	0	0	1
5199	1	-1	NA
5212	0	0	1
5213	1	0	3
5224	2	0	4
5226	3	0	4
5239	3	1	5
5252	2	1	NA
5264	0	0	1
5266	1	-2	NA
5271	3	1	5

INDEX	STARS	LabelAppeal	TARGET
5273	2	0	4
5276	2	-2	3
5278	3	0	4
5281	1	-1	2
5283	3	0	4
5291	0	2	2
5294	3	2	5
5296	2	0	4
5297	0	0	1
5313	2	0	4
5314	1	0	3
5321	2	-1	NA
5325	2	-1	3
5326	0	0	1
5328	3	-1	NA
5334	1	0	3
5338	2	1	4
5344	1	-2	2
5348	0	-1	1
5352	0	0	1
5353	2	0	4
5354	0	1	2
5361	0	-1	NA
5364	1	1	3
5365	2	0	4
5367	0	-2	0
5379	3	1	5
5382	2	-1	3
5386	3	1	NA
5395	2	0	4
5410	2	1	NA
5411	1	1	3
5416	3	1	5
5424	1	2	4
5426	1	0	3
5428	0	0	1
5430	4	0	NA
5433	0	0	2
5437	2	-1	3
5440	1	1	NA
5442	3	1	5
5445	1	0	3
5449	2	0	NA
5452	2	0	4
5460	0	-1	1
5461	1	-1	2
5465	0	-1	1
5467	3	0	NA
5471	2	1	4
5474	0	0	1
5475	2	-1	NA
5480	0	-1	NA

INDEX	STARS	LabelAppeal	TARGET
5481	2	0	4
5484	0	0	1
5494	2	2	5
5495	0	-1	1
5497	0	0	2
5499	2	-1	3
5507	0	0	1
5510	1	1	3
5515	0	0	1
5516	1	-2	2
5517	0	-1	1
5524	3	0	4
5530	3	2	5
5534	1	-1	3
5543	0	0	1
5545	1	0	3
5558	2	0	4
5562	0	0	1
5573	4	2	6
5581	3	0	4
5583	3	1	5
5587	3	-1	4
5589	1	-1	2
5591	4	1	5
5596	1	0	3
5606	3	0	4
5608	2	1	4
5611	2	-1	3
5612	2	1	4
5614	3	0	NA
5620	2	0	4
5623	3	1	5
5624	1	2	4
5626	3	2	5
5633	0	-2	0
5635	2	-1	3
5640	2	1	NA
5643	1	0	NA
5644	4	1	6
5653	3	1	5
5663	3	0	NA
5664	3	1	5
5667	1	-1	2
5671	0	0	1
5673	2	0	4
5676	2	-2	3
5678	1	0	3
5698	1	-1	2
5700	4	1	5
5705	2	0	4
5706	2	2	NA
5711	0	0	NA

INDEX	STARS	LabelAppeal	TARGET
5712	3	1	5
5716	2	-1	3
5719	1	1	3
5725	1	-1	NA
5728	4	2	6
5734	0	-1	1
5735	3	0	5
5743	1	-1	3
5754	0	-1	1
5755	1	0	NA
5756	2	1	NA
5766	1	0	3
5770	2	0	4
5774	0	0	1
5775	1	-1	2
5776	2	0	4
5778	4	1	5
5786	2	-1	3
5787	2	0	4
5791	3	1	5
5794	2	-1	NA
5803	1	0	3
5804	1	1	NA
5808	0	1	2
5810	2	0	4
5813	2	0	4
5828	2	-1	3
5839	4	1	6
5842	3	0	4
5843	2	-1	3
5844	2	0	3
5847	1	0	3
5851	1	-1	2
5854	3	-1	NA
5857	0	0	1
5866	0	-2	1
5874	0	0	NA
5886	2	0	NA
5895	1	0	2
5897	1	-1	2
5898	1	0	3
5900	0	1	2
5902	0	1	2
5908	0	0	1
5909	1	0	3
5912	4	1	6
5913	0	0	1
5917	4	0	5
5918	1	0	3
5921	3	-1	NA
5931	0	-2	1
5942	2	0	4

INDEX	STARS	LabelAppeal	TARGET
5943	2	-1	NA
5950	2	0	NA
5954	0	0	1
5983	2	-1	NA
5995	1	0	NA
6002	1	0	3
6005	2	0	4
6009	4	2	6
6011	1	-1	NA
6012	4	0	5
6019	0	-1	NA
6021	1	1	3
6029	3	1	NA
6036	2	1	NA
6037	1	0	3
6038	0	-1	1
6043	1	1	2
6045	3	0	4
6047	0	-1	1
6048	1	0	3
6061	2	0	4
6063	1	1	3
6064	3	1	4
6068	3	0	4
6069	0	0	1
6070	2	0	4
6071	3	1	5
6074	3	0	NA
6079	2	0	4
6082	1	0	NA
6088	3	0	4
6094	1	0	3
6095	0	0	1
6098	1	0	3
6102	2	0	NA
6105	0	0	1
6113	4	1	NA
6116	1	0	3
6120	0	0	1
6121	1	-1	2
6126	2	-2	3
6144	2	1	4
6145	2	1	4
6153	1	-1	2
6156	2	0	NA
6159	3	0	4
6162	0	1	NA
6184	1	-1	3
6188	1	0	3
6189	2	-1	3
6191	1	-1	NA
6211	0	1	2

INDEX	STARS	LabelAppeal	TARGET
6216	2	0	4
6218	0	-1	1
6222	0	0	1
6235	2	-1	3
6245	0	-1	1
6248	2	0	4
6253	2	0	4
6256	0	1	2
6257	2	1	4
6259	0	-2	NA
6266	2	1	4
6268	2	0	NA
6275	0	-2	0
6280	1	0	3
6283	1	-1	NA
6288	4	0	NA
6289	1	-1	2
6301	2	2	5
6308	2	1	4
6314	2	0	4
6315	0	-1	1
6316	2	0	4
6317	1	0	3
6318	3	-2	4
6323	3	-1	4
6329	3	-1	4
6336	0	-1	1
6341	2	1	4
6348	3	-1	4
6349	2	1	NA
6365	0	0	1
6372	2	0	4
6376	1	0	NA
6378	0	0	2
6379	2	1	NA
6382	0	-1	1
6383	2	-1	3
6389	3	1	5
6390	1	-2	NA
6392	3	0	5
6394	0	1	2
6402	0	1	2
6404	1	2	4
6405	1	-1	2
6406	0	0	1
6409	4	0	NA
6410	3	1	5
6411	2	0	4
6421	3	1	5
6428	4	2	6
6429	1	-1	2
6432	3	0	4

INDEX	STARS	LabelAppeal	TARGET
6436	0	-1	NA
6437	2	0	4
6438	0	2	2
6445	1	0	3
6447	3	0	NA
6450	2	1	4
6462	2	1	4
6467	2	0	4
6478	2	0	4
6484	2	1	4
6492	2	1	4
6497	3	2	NA
6504	2	-1	3
6505	0	-1	1
6513	2	-1	3
6525	4	0	5
6526	2	1	NA
6528	1	-1	2
6540	0	1	NA
6542	0	1	NA
6544	3	1	5
6548	2	0	4
6552	2	-1	NA
6558	2	0	4
6567	2	-2	3
6569	3	0	4
6572	4	1	5
6577	3	2	5
6581	2	-1	3
6588	2	-1	3
6591	0	1	2
6594	1	-1	2
6600	2	2	5
6602	1	1	NA
6604	1	0	2
6605	2	0	4
6614	1	-1	NA
6616	0	-2	NA
6621	0	0	2
6640	3	0	5
6641	2	-1	NA
6643	1	0	3
6644	0	-1	NA
6649	1	-2	2
6650	2	0	NA
6655	4	1	5
6661	1	-1	2
6672	4	0	5
6677	0	-1	NA
6688	1	0	3
6689	3	1	NA
6691	1	-1	NA

INDEX	STARS	LabelAppeal	TARGET
6692	2	1	4
6694	3	-1	4
6702	1	-1	NA
6714	0	0	NA
6716	3	1	5
6724	2	0	3
6725	0	-1	1
6730	2	0	4
6735	1	0	3
6738	1	0	3
6739	1	0	3
6743	2	0	4
6747	1	0	3
6750	4	2	6
6751	2	-1	NA
6753	3	0	4
6754	1	1	3
6755	0	-2	1
6762	2	0	4
6764	2	0	4
6772	0	1	2
6774	0	-1	1
6787	2	-2	3
6789	2	0	4
6793	3	0	4
6798	0	1	2
6799	0	1	2
6800	2	0	4
6802	0	-1	NA
6808	0	-1	1
6809	2	0	4
6812	2	1	NA
6814	1	0	NA
6816	1	-1	2
6822	0	0	1
6829	2	0	NA
6834	1	-1	2
6836	3	0	5
6839	3	-1	NA
6840	0	-1	NA
6843	0	1	2
6846	1	-1	2
6848	0	-1	1
6852	1	-1	NA
6856	4	1	5
6860	2	1	4
6866	3	0	5
6870	3	0	4
6878	0	1	NA
6880	3	1	5
6885	2	2	NA
6897	3	0	4

INDEX	STARS	LabelAppeal	TARGET
6902	3	-1	4
6904	3	0	4
6907	3	0	4
6909	0	1	2
6914	1	-2	2
6915	2	2	5
6922	0	-1	1
6924	1	-1	2
6933	2	0	4
6934	2	1	4
6941	2	0	4
6957	1	0	NA
6960	1	2	4
6969	0	0	NA
6975	1	0	3
6980	0	-1	1
6983	0	-1	1
6987	2	-2	3
6994	1	1	3
6997	2	1	5
7002	1	1	3
7010	1	-1	2
7015	1	1	NA
7019	1	0	3
7022	2	1	NA
7025	1	-1	2
7029	1	2	4
7031	1	-1	2
7037	1	-1	NA
7038	2	0	4
7043	0	-2	1
7049	1	1	3
7052	1	1	3
7053	3	0	5
7056	2	-1	3
7057	3	0	4
7080	0	0	NA
7086	0	-1	1
7087	2	0	4
7105	2	0	NA
7108	2	-2	NA
7121	0	-2	0
7122	1	-1	2
7125	0	0	1
7132	1	1	3
7134	2	0	3
7151	1	0	NA
7152	3	-1	4
7157	1	0	3
7159	0	0	1
7166	0	1	1
7167	0	0	1

INDEX	STARS	LabelAppeal	TARGET
7177	1	0	3
7179	0	-1	1
7181	0	2	2
7183	2	2	5
7186	2	0	4
7193	3	1	5
7205	2	-1	NA
7207	0	0	1
7209	3	0	4
7216	0	1	NA
7232	1	0	NA
7235	0	-1	NA
7238	1	0	3
7240	1	-1	2
7243	0	-1	0
7252	1	-1	2
7269	1	-1	2
7275	2	0	NA
7281	1	0	NA
7283	0	-2	1
7287	3	2	5
7289	3	2	6
7291	3	0	NA
7294	0	2	NA
7304	3	1	5
7308	2	1	4
7313	2	-1	3
7319	0	0	1
7325	0	-1	NA
7326	1	0	3
7330	3	1	5
7332	2	1	4
7337	0	-1	1
7341	0	0	1
7346	3	-1	4
7353	0	-2	1
7354	3	0	5
7361	0	0	NA
7366	0	1	2
7368	3	1	5
7372	3	0	4
7375	2	-1	3
7377	3	2	5
7380	0	1	2
7382	3	0	NA
7385	1	0	3
7392	1	0	3
7395	2	1	4
7397	3	-1	4
7403	3	-1	4
7406	3	-1	NA
7409	0	0	1

INDEX	STARS	LabelAppeal	TARGET
7410	2	0	4
7412	2	1	4
7419	2	-1	3
7425	2	-1	3
7435	4	2	6
7438	2	0	4
7440	2	1	4
7447	2	-1	NA
7449	2	-2	NA
7456	3	-1	4
7464	2	0	4
7478	1	-1	NA
7480	2	-1	NA
7481	3	1	5
7483	2	0	4
7484	0	-1	1
7491	3	0	4
7494	1	-1	2
7501	1	-1	NA
7503	2	0	NA
7509	1	-1	2
7517	0	1	1
7518	4	1	6
7519	1	-2	2
7521	3	1	NA
7522	1	-1	NA
7536	2	0	4
7539	0	-1	1
7547	3	2	5
7549	1	0	3
7552	1	0	NA
7554	0	-1	NA
7556	2	0	4
7564	2	0	NA
7566	0	0	1
7570	3	0	4
7571	1	1	3
7572	2	0	4
7575	1	-1	2
7586	2	1	3
7589	3	1	5
7590	1	0	3
7597	2	0	4
7602	2	1	4
7604	3	0	4
7605	1	0	3
7612	1	0	3
7615	3	0	4
7617	1	0	NA
7624	2	0	4
7632	3	0	4
7639	2	1	4

INDEX	STARS	LabelAppeal	TARGET
7642	1	1	3
7643	2	0	4
7649	2	0	4
7650	0	-1	NA
7653	2	0	4
7654	1	1	NA
7657	3	1	5
7662	0	-1	1
7669	2	0	4
7671	1	0	3
7675	0	0	1
7678	3	0	4
7682	3	0	NA
7688	0	-1	1
7689	0	-1	1
7690	3	1	5
7692	1	0	3
7699	0	1	2
7705	2	-1	3
7712	3	-1	NA
7726	2	1	4
7728	1	-2	NA
7735	2	1	4
7737	1	-1	2
7739	2	0	3
7743	0	1	2
7744	2	2	NA
7746	1	-1	2
7749	0	-1	1
7750	3	0	5
7752	2	0	4
7755	3	1	5
7756	2	0	NA
7762	3	0	NA
7764	0	1	1
7769	1	-1	2
7770	1	-1	2
7776	3	1	5
7778	3	1	5
7784	1	-1	2
7786	2	-1	NA
7789	2	-1	3
7793	2	1	4
7794	0	-1	1
7804	2	-1	NA
7811	2	1	NA
7813	1	0	3
7815	1	1	3
7817	0	0	1
7818	2	0	NA
7821	4	1	6
7825	3	-1	4

INDEX	STARS	LabelAppeal	TARGET
7830	3	1	5
7832	2	0	NA
7835	0	0	NA
7839	3	2	5
7842	3	1	5
7849	3	0	5
7856	1	-1	NA
7857	1	-1	2
7863	2	1	4
7866	3	0	5
7871	2	-1	3
7875	1	-1	NA
7882	1	-1	2
7887	1	0	2
7888	3	-1	4
7891	1	-2	2
7895	2	1	NA
7901	3	0	4
7906	1	-1	2
7908	0	0	1
7917	1	-2	2
7924	1	0	3
7948	2	0	4
7950	4	1	6
7955	1	0	3
7957	0	1	2
7959	1	-1	NA
7967	4	0	5
7969	1	0	NA
7971	2	1	4
7974	2	-1	3
7976	1	0	NA
7986	4	1	6
7987	0	-1	1
7993	3	0	4
7996	2	0	4
7998	1	1	3
8018	3	-1	4
8019	1	-1	NA
8027	0	-1	NA
8036	0	0	1
8040	2	1	4
8044	1	2	4
8050	2	-1	4
8052	0	0	1
8054	0	1	2
8057	2	0	4
8058	3	0	5
8059	1	0	NA
8066	3	-2	4
8070	3	2	6
8072	3	2	5

INDEX	STARS	LabelAppeal	TARGET
8078	1	-1	2
8079	2	-1	3
8080	3	0	4
8081	3	0	4
8088	0	0	1
8091	1	0	3
8094	1	0	3
8095	1	-1	NA
8099	3	0	4
8101	3	1	5
8102	3	1	5
8116	3	0	5
8125	3	0	5
8134	0	2	2
8139	0	1	2
8141	2	1	4
8147	1	0	3
8158	4	1	NA
8160	1	-1	2
8165	2	-1	NA
8187	1	-1	2
8205	0	0	NA
8209	1	1	3
8211	2	0	NA
8232	2	0	4
8236	2	1	4
8237	3	1	5
8238	4	1	6
8245	3	0	4
8256	1	0	NA
8268	3	-1	NA
8269	1	-1	2
8270	2	1	NA
8286	1	0	2
8289	2	0	NA
8301	3	-1	4
8305	0	-1	1
8310	1	0	3
8312	0	-2	NA
8318	3	1	5
8321	3	0	4
8328	0	1	NA
8331	2	1	NA
8334	1	0	NA
8344	2	0	4
8345	1	-1	2
8352	3	0	5
8358	2	0	NA
8359	1	-1	NA
8360	1	-1	2
8365	2	-1	3
8366	2	-1	3

INDEX	STARS	LabelAppeal	TARGET
8369	3	1	5
8373	3	1	5
8378	2	0	4
8392	2	-1	3
8397	2	-1	3
8399	1	-1	2
8400	1	1	3
8405	1	0	3
8406	2	1	4
8410	0	1	2
8413	3	0	4
8414	0	-1	1
8416	4	1	NA
8426	1	-1	2
8434	2	1	4
8439	0	2	NA
8440	0	-2	1
8475	3	0	4
8480	3	1	5
8497	1	-1	2
8499	0	1	1
8500	1	1	3
8501	2	-1	4
8502	2	-1	NA
8518	2	2	5
8520	2	0	4
8523	2	1	4
8525	0	-2	0
8532	1	0	NA
8535	1	0	3
8543	0	0	1
8554	0	1	2
8560	4	0	5
8561	4	-1	5
8563	0	-1	1
8566	0	0	1
8570	2	0	4
8572	3	-1	4
8582	1	-1	1
8583	0	-1	1
8587	0	0	1
8592	1	-1	2
8593	0	1	2
8607	0	-1	1
8609	2	1	4
8610	2	0	NA
8614	2	0	NA
8616	4	0	5
8622	4	-1	5
8623	2	0	4
8624	0	-1	1
8633	4	1	6

INDEX	STARS	LabelAppeal	TARGET
8641	3	2	NA
8644	4	1	6
8649	2	1	4
8653	1	0	3
8657	3	2	5
8658	1	0	3
8663	2	0	4
8672	1	-1	2
8680	0	-1	1
8684	1	0	3
8687	0	0	1
8688	2	0	4
8690	2	0	4
8712	0	1	1
8717	1	1	3
8730	3	1	5
8739	2	0	4
8744	2	1	4
8747	3	1	5
8748	3	0	4
8751	2	-1	3
8758	2	0	4
8761	0	-1	NA
8763	0	1	2
8764	2	0	4
8765	3	2	5
8773	4	0	NA
8780	1	0	3
8781	2	-1	3
8782	2	0	NA
8785	0	0	0
8786	1	1	NA
8797	0	-1	1
8799	3	0	4
8807	0	-1	NA
8816	2	0	NA
8817	3	-1	4
8826	3	1	NA
8833	1	0	3
8834	1	0	NA
8835	1	-1	NA
8840	3	1	5
8843	1	1	3
8849	2	-1	3
8855	1	1	3
8861	1	0	3
8862	3	0	4
8865	3	-2	NA
8868	4	0	5
8870	2	1	4
8880	2	1	NA
8885	0	0	1

INDEX	STARS	LabelAppeal	TARGET
8894	0	0	2
8895	3	0	5
8899	3	0	5
8912	0	0	2
8922	1	-1	2
8924	2	-1	NA
8928	2	0	4
8932	0	1	2
8943	3	1	5
8945	4	1	NA
8946	2	1	4
8954	1	0	3
8958	2	0	NA
8960	0	-1	1
8965	1	0	2
8966	2	1	4
8967	1	-1	2
8969	2	-1	3
8980	3	0	NA
8984	3	0	NA
8985	1	0	NA
8988	1	0	NA
8989	2	1	4
8995	0	0	1
9004	1	1	3
9010	1	0	NA
9012	0	0	1
9018	2	0	4
9036	0	-2	0
9037	1	-1	2
9040	0	1	NA
9041	2	2	5
9044	4	1	5
9045	1	0	NA
9047	1	0	3
9049	0	0	NA
9061	0	0	2
9062	1	0	3
9076	2	0	4
9079	1	-1	2
9081	2	0	4
9082	2	1	4
9089	0	-1	1
9092	2	-1	3
9094	0	1	NA
9115	0	0	1
9117	3	0	4
9118	1	0	3
9120	0	-1	1
9124	1	0	NA
9128	0	-2	NA
9135	0	0	1

INDEX	STARS	LabelAppeal	TARGET
9136	1	0	3
9138	3	0	4
9157	3	0	NA
9176	0	0	1
9183	0	0	1
9187	1	0	3
9188	0	-1	1
9190	3	0	4
9197	2	0	NA
9200	3	-1	4
9201	0	0	1
9203	0	0	1
9212	2	0	4
9213	0	-1	1
9214	3	0	NA
9217	1	1	3
9219	1	1	3
9220	3	1	5
9221	4	1	5
9237	0	0	1
9240	2	1	4
9241	1	-1	3
9248	2	-1	4
9253	4	2	6
9259	2	1	4
9267	0	1	2
9271	1	0	3
9273	0	-1	0
9285	4	1	5
9290	2	0	NA
9291	2	0	4
9293	0	0	1
9294	2	0	4
9301	2	-1	4
9302	3	0	NA
9312	1	0	3
9316	2	0	4
9319	0	1	2
9328	3	1	5
9331	2	1	4
9338	0	-1	1
9350	1	0	3
9356	2	0	4
9359	1	-1	2
9362	1	1	3
9364	1	0	3
9370	1	1	3
9380	0	-1	0
9386	2	1	NA
9394	0	0	1
9407	2	0	4
9411	1	0	3

INDEX	STARS	LabelAppeal	TARGET
9422	2	0	4
9423	0	0	1
9429	0	0	1
9433	0	-1	1
9439	0	0	1
9451	3	0	4
9452	1	1	3
9453	0	-1	NA
9460	3	1	NA
9465	2	2	5
9470	3	0	4
9476	2	0	NA
9485	2	0	4
9486	0	-1	1
9488	1	0	3
9507	4	1	5
9508	0	-1	1
9517	4	2	6
9521	2	2	5
9528	2	-1	3
9532	1	0	NA
9536	2	-1	3
9540	3	1	5
9542	2	1	4
9546	3	-1	4
9548	3	0	4
9549	4	1	NA
9554	4	0	5
9555	2	1	4
9558	0	-1	1
9573	0	0	1
9575	4	0	5
9584	2	-1	3
9586	2	0	4
9588	3	1	5
9591	0	0	1
9592	3	0	NA
9597	3	2	NA
9600	3	0	4
9603	2	0	NA
9605	1	-1	2
9614	0	0	NA
9616	3	1	NA
9622	2	0	4
9624	3	0	4
9629	0	0	1
9633	2	0	NA
9640	3	0	5
9644	1	-1	2
9645	0	0	1
9646	1	0	3
9648	1	0	3

INDEX	STARS	LabelAppeal	TARGET
9649	0	-1	1
9660	2	0	4
9664	2	1	NA
9675	0	1	NA
9679	1	0	3
9680	2	-1	3
9682	0	0	NA
9697	1	0	3
9701	3	-1	4
9704	2	-1	3
9705	0	1	2
9707	3	0	4
9714	0	1	2
9718	1	0	3
9722	3	1	5
9739	1	0	3
9747	4	1	5
9751	0	-1	1
9757	1	-1	2
9759	3	-1	4
9760	3	0	NA
9764	2	-1	3
9776	0	0	NA
9778	1	0	3
9786	0	-1	1
9803	2	0	4
9804	2	1	NA
9815	3	1	5
9824	1	-2	NA
9825	0	0	1
9826	1	0	3
9827	2	0	4
9833	2	0	4
9835	0	-1	1
9860	2	0	4
9865	1	1	3
9871	3	-1	4
9874	0	-1	1
9880	1	1	3
9882	0	-1	NA
9885	1	0	3
9888	2	1	4
9892	1	-2	2
9893	3	1	5
9896	0	-1	1
9902	1	1	3
9906	2	0	4
9910	3	1	5
9914	0	1	2
9918	0	1	2
9920	0	-1	1
9926	2	2	5

INDEX	STARS	LabelAppeal	TARGET
9931	3	2	5
9935	2	0	4
9945	2	1	4
9953	0	1	2
9957	1	0	NA
9963	2	1	NA
9972	2	1	4
9976	3	0	NA
9979	1	0	NA
9980	0	0	1
9982	0	1	NA
9991	2	0	NA
10000	2	2	5
10003	2	0	4
10005	1	-1	2
10014	2	0	4
10032	1	1	3
10034	1	0	NA
10041	1	-1	NA
10042	2	0	4
10044	3	1	5
10045	0	-2	0
10054	2	0	4
10061	4	1	NA
10062	0	1	2
10073	1	1	NA
10081	0	1	2
10084	0	0	NA
10086	0	1	1
10093	0	-1	NA
10101	3	1	NA
10105	3	0	4
10110	2	0	NA
10113	1	0	3
10115	1	0	3
10119	2	0	4
10121	3	-1	4
10124	0	1	1
10126	4	1	5
10127	1	1	3
10145	1	0	3
10147	0	-1	1
10148	1	-1	2
10162	1	-1	NA
10163	1	0	3
10166	1	-2	2
10172	2	0	4
10173	1	0	3
10175	1	-1	2
10180	2	-1	NA
10186	0	1	2
10192	3	-1	4

INDEX	STARS	LabelAppeal	TARGET
10199	2	-1	3
10209	0	0	1
10210	4	2	6
10214	2	0	NA
10215	0	1	NA
10216	0	0	NA
10232	1	1	3
10239	3	1	5
10249	2	1	4
10253	3	1	5
10255	0	0	1
10262	2	-1	NA
10264	1	-1	2
10266	0	1	2
10268	0	0	1
10271	2	-1	3
10272	3	1	5
10276	0	0	1
10277	1	0	3
10279	2	-1	3
10281	1	-1	2
10285	1	-1	NA
10294	0	-1	1
10300	2	-1	3
10304	1	0	3
10307	1	1	NA
10309	3	1	5
10310	0	0	1
10312	0	0	NA
10321	2	-1	3
10332	0	1	2
10336	2	0	4
10368	1	0	3
10369	2	2	5
10375	0	-2	0
10376	0	-1	1
10379	2	0	NA
10380	1	0	3
10383	1	-1	NA
10385	3	1	5
10387	2	0	NA
10397	1	0	3
10412	1	1	NA
10413	0	1	NA
10418	1	-1	NA
10420	2	-1	4
10426	2	0	4
10427	1	0	3
10428	2	-1	3
10430	0	0	2
10435	0	0	NA
10436	0	-2	NA

INDEX	STARS	LabelAppeal	TARGET
10446	4	1	6
10448	3	-1	4
10449	2	1	4
10463	1	-1	2
10469	1	-1	2
10470	3	0	NA
10471	2	0	NA
10473	3	1	NA
10476	2	-1	3
10482	1	0	3
10500	2	-1	3
10511	3	1	5
10512	2	1	4
10514	2	0	4
10515	3	0	5
10526	0	0	NA
10546	0	-1	NA
10549	2	0	4
10553	0	-1	NA
10558	1	-1	2
10575	0	0	1
10581	1	0	3
10583	1	1	NA
10584	0	-1	1
10585	0	1	1
10610	0	1	2
10611	0	-1	1
10616	2	2	4
10618	1	0	3
10628	0	-1	1
10632	0	-1	1
10642	2	0	4
10648	1	1	3
10649	2	0	4
10650	2	-1	NA
10654	1	-2	2
10656	3	1	5
10661	3	1	5
10663	0	2	2
10672	1	0	3
10678	3	1	5
10685	3	0	NA
10690	3	1	5
10702	2	0	4
10706	1	1	3
10708	1	-1	2
10716	2	-1	4
10717	4	0	NA
10720	3	1	5
10729	0	0	1
10730	3	1	5
10745	0	1	2

INDEX	STARS	LabelAppeal	TARGET
10753	1	-1	NA
10754	1	-1	2
10762	1	-1	2
10766	0	-1	NA
10776	0	-2	0
10783	1	0	3
10789	2	-1	3
10790	2	2	5
10797	0	1	2
10807	1	0	3
10810	0	0	1
10817	1	1	3
10820	1	-1	2
10822	2	0	4
10828	2	1	4
10829	1	-1	NA
10830	2	-2	3
10831	4	1	6
10841	3	2	5
10847	2	-1	NA
10856	0	-1	1
10860	0	0	NA
10861	3	1	NA
10863	1	0	3
10875	1	0	NA
10884	3	0	4
10895	0	-1	1
10897	1	0	3
10898	1	0	NA
10903	0	1	1
10908	0	1	2
10924	1	0	3
10926	1	-1	2
10927	1	0	3
10928	1	0	3
10933	0	0	1
10939	4	1	6
10942	2	1	4
10945	2	-1	3
10949	2	0	4
10950	1	0	3
10958	3	2	5
10963	2	0	4
10967	2	-1	4
10971	0	0	NA
10972	0	0	2
10974	2	0	4
10976	4	0	5
10980	1	0	3
10991	0	0	2
10995	3	0	NA
11014	3	1	5

INDEX	STARS	LabelAppeal	TARGET
11017	2	1	NA
11019	2	1	4
11022	0	0	NA
11030	3	0	4
11031	2	-1	3
11041	0	0	1
11042	2	0	4
11044	3	0	NA
11047	2	1	NA
11048	1	0	NA
11049	1	0	3
11052	1	0	3
11058	0	0	1
11069	2	-1	4
11070	2	-1	NA
11073	3	1	NA
11074	0	-1	1
11078	0	0	2
11079	0	0	1
11085	0	0	1
11088	2	0	4
11106	0	0	1
11110	4	1	NA
11114	3	-1	4
11118	1	-1	2
11129	2	1	4
11130	2	0	4
11131	2	0	4
11133	1	-1	NA
11138	3	-1	4
11143	2	0	4
11146	4	0	5
11153	2	0	4
11162	1	2	4
11170	4	2	6
11171	0	0	1
11201	2	-1	3
11216	3	1	5
11219	1	0	3
11222	2	1	5
11234	0	0	1
11238	2	0	4
11244	2	-1	4
11246	0	-2	0
11248	0	2	2
11250	0	0	1
11256	2	1	4
11259	1	-1	2
11263	0	0	1
11264	1	0	NA
11270	0	-1	1
11274	0	0	1

INDEX	STARS	LabelAppeal	TARGET
11281	2	-1	NA
11285	0	0	1
11300	1	-1	2
11305	2	-1	3
11317	3	-1	4
11319	1	-1	2
11330	0	1	NA
11334	3	1	5
11335	4	1	NA
11336	1	0	3
11356	3	0	4
11358	2	0	4
11360	0	0	1
11364	0	0	1
11373	4	1	5
11379	3	-1	4
11382	3	0	NA
11383	0	0	1
11385	3	0	5
11387	2	-1	NA
11391	1	0	3
11397	1	-1	2
11404	1	-2	2
11405	0	1	2
11409	2	1	4
11419	2	-1	3
11430	3	0	4
11434	4	1	5
11436	1	-1	2
11440	1	1	NA
11443	1	-1	NA
11449	2	-2	3
11452	2	1	NA
11453	0	-1	NA
11456	3	1	4
11457	0	0	1
11459	2	1	4
11471	0	0	1
11476	2	-1	3
11479	0	-1	1
11481	2	0	4
11485	1	1	3
11486	1	0	NA
11487	1	0	3
11488	1	-1	2
11498	0	1	NA
11506	1	-1	3
11511	3	1	5
11515	0	-1	NA
11518	0	-1	NA
11521	1	-1	NA
11523	1	0	NA

INDEX	STARS	LabelAppeal	TARGET
11524	0	1	NA
11525	2	0	4
11528	0	-1	1
11530	1	0	2
11531	2	-1	3
11533	1	0	3
11535	2	0	4
11537	2	0	4
11538	2	-2	3
11541	0	-2	NA
11548	3	0	4
11552	1	-1	2
11558	0	1	2
11560	0	0	1
11566	0	0	1
11572	0	0	1
11573	3	0	4
11582	3	0	4
11586	1	-1	3
11590	3	0	4
11591	1	-1	2
11601	2	0	4
11611	2	0	NA
11617	0	-1	NA
11619	2	1	4
11624	2	0	4
11626	4	1	6
11644	1	0	3
11652	0	-2	0
11656	0	-1	1
11658	3	-2	4
11659	3	1	5
11663	2	-1	NA
11665	2	0	4
11683	3	0	4
11685	0	-1	1
11691	1	0	3
11694	2	0	4
11698	0	0	1
11700	2	0	4
11703	1	0	2
11705	1	-1	2
11710	3	-1	NA
11711	2	-1	3
11714	0	-1	1
11731	2	1	NA
11732	0	0	NA
11742	1	0	3
11744	2	0	4
11745	1	0	3
11749	0	1	NA
11756	1	1	3

INDEX	STARS	LabelAppeal	TARGET
11761	0	-1	1
11762	3	0	4
11766	3	0	5
11767	4	2	6
11769	1	0	3
11770	2	0	4
11771	3	0	4
11777	2	-1	4
11778	3	1	5
11779	0	0	1
11788	0	0	2
11790	2	1	4
11794	2	0	4
11801	2	0	NA
11807	0	0	1
11812	3	0	4
11817	0	1	2
11818	1	0	NA
11825	0	1	1
11828	3	0	NA
11833	3	0	4
11837	3	1	NA
11838	0	0	1
11842	0	0	1
11853	3	0	4
11857	3	0	NA
11858	1	0	3
11860	3	1	5
11867	2	0	NA
11868	4	0	5
11871	3	0	NA
11875	1	2	NA
11881	3	2	6
11890	0	1	2
11892	3	0	NA
11894	2	-1	3
11896	2	1	NA
11903	2	1	4
11905	3	-1	4
11907	1	0	3
11909	4	2	6
11911	1	0	3
11915	0	-1	1
11918	2	0	NA
11920	4	0	5
11923	3	0	4
11924	1	0	3
11926	1	-2	2
11931	2	0	NA
11933	3	0	4
11940	2	1	4
11951	1	1	3

INDEX	STARS	LabelAppeal	TARGET
11953	1	0	3
11973	0	0	NA
11984	0	-1	NA
11985	0	-1	1
11991	1	-1	3
12002	1	0	3
12006	2	-1	NA
12008	3	0	4
12013	0	-1	1
12015	3	-1	4
12016	3	0	5
12023	0	0	NA
12029	0	0	1
12036	0	0	1
12038	1	1	3
12041	0	1	2
12049	2	1	NA
12050	0	1	NA
12054	1	1	3
12060	2	-1	3
12062	3	1	5
12065	1	-1	2
12079	0	-1	1
12083	4	1	6
12090	2	1	4
12091	2	1	4
12094	3	0	4
12099	2	0	4
12101	1	1	3
12110	1	0	3
12116	3	2	NA
12122	3	-1	4
12127	4	2	6
12133	2	0	4
12142	0	1	1
12147	3	0	NA
12156	1	-1	2
12157	3	1	5
12158	4	1	NA
12161	3	0	4
12163	3	0	4
12166	1	0	3
12170	0	0	NA
12174	3	1	NA
12183	0	0	NA
12188	0	0	NA
12189	3	0	5
12192	2	0	NA
12201	2	-1	3
12204	0	-1	1
12207	0	-1	1
12208	1	-1	2

INDEX	STARS	LabelAppeal	TARGET
12209	2	0	NA
12210	4	2	6
12217	2	-1	3
12227	0	0	1
12231	3	-1	NA
12232	2	0	4
12239	3	1	5
12240	1	-1	2
12251	2	-1	3
12256	2	1	4
12261	0	0	NA
12263	2	-2	3
12266	0	-1	1
12267	1	0	3
12268	2	0	4
12279	3	1	NA
12280	2	1	NA
12283	1	0	3
12284	0	1	2
12285	4	1	NA
12286	3	1	5
12292	2	1	4
12295	0	0	1
12301	2	0	NA
12314	1	-1	2
12315	0	0	1
12318	0	0	NA
12332	3	1	5
12334	0	0	1
12337	2	0	4
12338	3	1	5
12349	3	0	4
12350	3	-1	4
12359	4	1	5
12360	3	1	5
12373	2	1	NA
12374	0	-1	1
12380	2	1	4
12382	2	-1	3
12383	2	-1	3
12390	2	1	4
12398	2	1	4
12405	2	0	4
12407	1	0	3
12410	4	1	5
12418	3	2	5
12421	3	1	NA
12422	1	1	3
12439	0	0	NA
12444	2	0	4
12463	4	0	5
12465	0	-1	NA

INDEX	STARS	LabelAppeal	TARGET
12470	3	0	NA
12471	2	0	4
12480	3	0	4
12482	3	0	4
12484	2	-1	3
12487	3	0	4
12491	2	0	NA
12503	4	0	NA
12507	0	0	1
12526	1	-1	2
12533	1	0	3
12540	0	0	1
12543	1	-1	2
12552	0	0	NA
12555	3	2	5
12556	3	0	4
12570	3	0	4
12579	2	0	4
12588	1	-1	2
12600	0	1	NA
12615	3	1	5
12624	2	0	4
12629	0	-1	NA
12634	2	-1	3
12638	0	0	1
12646	1	1	3
12650	0	0	NA
12665	1	0	NA
12674	2	-1	NA
12676	0	0	NA
12678	1	0	NA
12685	1	1	3
12690	1	0	3
12698	2	0	4
12702	2	1	4
12704	1	0	3
12705	1	0	3
12710	3	-1	4
12715	3	1	5
12720	2	0	4
12734	1	0	2
12744	2	0	4
12747	0	0	1
12757	3	1	5
12758	1	-2	NA
12766	0	-1	1
12782	2	-1	3
12787	0	0	NA
12799	1	-1	2
12804	2	1	4
12809	2	-1	3
12813	2	-1	3

INDEX	STARS	LabelAppeal	TARGET
12816	3	-1	4
12821	2	0	NA
12826	2	-2	3
12831	2	0	4
12832	1	1	3
12833	2	-1	3
12835	2	0	4
12842	0	-1	1
12844	2	0	4
12847	0	-1	1
12852	1	0	3
12856	2	0	4
12857	2	-1	3
12858	4	1	NA
12861	1	0	3
12869	2	0	4
12876	1	2	4
12877	0	0	NA
12879	1	1	3
12882	2	1	4
12883	4	-1	NA
12887	1	-1	2
12889	2	0	NA
12891	3	1	5
12894	3	-1	4
12895	0	0	NA
12899	0	1	2
12905	4	2	6
12913	0	0	NA
12916	0	0	1
12917	1	0	3
12925	3	-1	4
12934	3	1	5
12939	3	1	5
12943	0	1	2
12950	3	1	5
12961	0	-1	0
12963	1	0	3
12973	0	1	2
12979	2	0	4
12980	0	-1	1
12981	0	-1	NA
12982	1	1	3
12992	1	1	3
12994	0	0	1
12999	2	-1	3
13002	2	0	4
13004	0	0	1
13010	1	1	NA
13013	2	0	4
13015	2	1	4
13019	2	2	5

INDEX	STARS	LabelAppeal	TARGET
13030	1	-2	NA
13031	3	1	NA
13036	1	1	3
13037	3	1	5
13042	0	2	2
13054	1	-1	2
13060	0	1	2
13072	2	0	NA
13073	1	0	NA
13079	3	1	5
13081	0	-1	1
13086	1	0	NA
13087	2	0	4
13090	0	0	1
13098	1	0	3
13100	1	0	3
13105	0	0	1
13106	1	0	3
13107	2	0	4
13113	4	2	6
13115	3	0	5
13117	0	-1	1
13118	2	-1	3
13121	0	-1	NA
13137	1	-2	2
13146	0	0	NA
13150	3	1	NA
13151	2	1	4
13152	1	1	NA
13156	3	-1	NA
13165	4	1	5
13169	2	1	4
13178	2	0	4
13180	1	1	3
13183	3	0	4
13184	0	1	2
13188	2	-1	4
13191	2	0	4
13196	0	-1	1
13203	2	0	NA
13206	1	-1	2
13211	2	1	NA
13219	0	1	2
13223	3	2	5
13226	2	0	4
13228	1	-1	2
13230	2	1	4
13240	2	1	4
13249	3	1	5
13250	0	-1	1
13256	2	0	4
13261	0	0	1

INDEX	STARS	LabelAppeal	TARGET
13263	1	0	3
13268	2	1	4
13275	0	1	2
13277	3	1	NA
13283	2	0	4
13284	0	0	1
13285	1	0	3
13286	3	0	NA
13287	0	-1	1
13290	1	0	3
13291	0	1	NA
13294	3	1	5
13295	2	-1	3
13303	2	-1	3
13306	0	-2	1
13311	2	1	4
13322	0	0	1
13331	0	0	1
13337	2	1	4
13344	0	0	1
13362	2	1	4
13364	1	-1	2
13366	0	0	NA
13368	2	-1	3
13370	1	-1	2
13377	3	1	5
13378	1	-1	2
13388	0	0	1
13392	2	1	4
13398	2	1	4
13403	2	1	NA
13404	2	1	4
13409	2	0	4
13416	0	2	2
13422	0	0	1
13427	2	0	4
13433	3	1	5
13438	2	-1	3
13441	4	1	NA
13449	3	1	5
13450	1	1	3
13453	1	-1	2
13460	1	1	3
13461	2	1	4
13465	2	0	4
13468	0	1	2
13481	2	0	4
13485	1	-1	2
13487	3	1	NA
13490	2	0	NA
13493	1	0	3
13497	1	-1	2

INDEX	STARS	LabelAppeal	TARGET
13508	0	1	2
13516	0	0	NA
13525	2	0	4
13533	4	0	NA
13535	0	0	NA
13538	2	0	4
13545	1	1	NA
13566	3	-1	4
13581	1	0	3
13584	0	-1	1
13588	1	-1	2
13596	1	0	2
13600	3	2	5
13604	2	0	4
13608	1	1	3
13611	1	0	3
13612	0	0	1
13615	2	0	4
13616	3	0	4
13618	2	0	4
13625	0	-1	NA
13628	3	-1	4
13629	0	0	1
13630	3	1	5
13633	2	0	4
13637	2	0	4
13640	0	-1	1
13641	1	0	2
13651	2	1	NA
13674	2	0	4
13684	2	0	4
13690	1	-2	NA
13707	2	0	4
13709	3	1	5
13710	3	-1	NA
13713	2	2	5
13724	0	2	NA
13725	0	2	2
13731	1	-1	2
13736	1	-1	2
13740	0	1	2
13745	3	2	NA
13748	0	-1	1
13751	0	1	2
13758	0	-1	1
13762	0	0	1
13764	3	0	5
13765	0	0	1
13769	1	-1	NA
13770	1	0	3
13774	3	1	5
13787	1	0	3

INDEX	STARS	LabelAppeal	TARGET
13791	1	1	3
13802	1	-1	2
13807	1	0	3
13808	1	-2	2
13809	0	1	2
13810	2	0	NA
13822	3	1	NA
13823	2	-1	3
13825	2	0	4
13826	0	1	2
13833	2	0	4
13837	2	-1	3
13842	2	0	4
13846	2	0	3
13852	3	1	5
13853	0	-2	1
13858	0	-1	1
13860	0	0	1
13866	0	0	1
13886	0	0	NA
13887	0	1	2
13890	1	2	4
13891	2	-1	4
13893	1	-1	2
13902	3	2	5
13903	0	0	NA
13908	2	1	4
13912	1	-2	2
13924	0	1	2
13928	1	0	3
13929	1	1	3
13938	2	1	4
13939	1	-1	NA
13941	3	1	5
13951	1	1	3
13962	0	-2	0
13964	1	-1	2
13967	2	-1	3
13971	3	-1	4
13972	3	0	4
13975	0	2	1
13977	1	0	3
13979	3	0	4
13983	0	-1	1
13984	2	0	4
13987	0	0	1
13994	3	0	NA
13999	1	0	3
14003	2	2	5
14008	2	1	4
14011	2	2	NA
14012	1	0	3

INDEX	STARS	LabelAppeal	TARGET
14016	2	-1	3
14017	1	0	NA
14020	0	0	NA
14027	0	1	2
14038	2	0	3
14040	3	1	5
14042	1	-1	2
14055	0	1	NA
14057	2	1	4
14060	0	1	2
14081	0	-1	NA
14091	2	0	4
14111	2	-1	3
14117	3	1	5
14121	2	0	NA
14122	3	1	NA
14125	0	0	1
14129	0	0	1
14135	0	-1	1
14148	0	2	NA
14157	2	0	4
14161	0	0	1
14163	0	0	NA
14172	3	-1	NA
14180	0	1	2
14182	2	1	NA
14188	0	1	2
14191	1	0	3
14201	4	2	6
14202	2	0	4
14213	2	0	4
14220	0	0	1
14224	1	-1	2
14231	0	-1	NA
14241	3	1	5
14243	3	0	NA
14245	1	-1	2
14247	1	-2	NA
14248	1	0	3
14252	1	0	3
14254	3	0	4
14260	3	-1	4
14269	2	1	4
14272	0	1	2
14274	2	0	4
14279	1	1	3
14280	3	1	5
14290	2	-1	4
14298	4	2	NA
14308	3	0	5
14313	2	0	4
14316	2	0	4

INDEX	STARS	LabelAppeal	TARGET
14319	4	1	NA
14322	0	1	NA
14323	2	-1	NA
14325	3	2	5
14337	3	0	4
14339	3	0	4
14341	1	0	3
14342	3	1	5
14346	4	1	5
14351	2	0	4
14354	0	0	1
14355	0	0	1
14358	3	2	5
14359	0	-1	NA
14364	2	0	4
14374	0	-2	0
14376	1	-1	NA
14382	1	0	3
14384	1	0	3
14393	0	0	NA
14398	1	0	3
14403	3	0	4
14406	0	0	NA
14408	2	0	NA
14411	0	1	2
14414	2	0	4
14418	1	-1	NA
14423	2	0	NA
14442	3	0	4
14443	2	0	4
14444	2	-1	3
14446	3	-1	NA
14455	1	0	3
14456	3	0	5
14458	2	0	4
14464	2	1	NA
14466	3	1	5
14467	1	0	3
14469	3	-1	4
14483	0	1	2
14484	1	0	3
14490	1	0	3
14491	2	-2	3
14494	1	0	3
14496	2	0	4
14503	0	-1	1
14504	1	0	3
14505	2	-1	3
14506	0	0	1
14507	0	0	1
14512	0	-1	NA
14520	2	1	4

INDEX	STARS	LabelAppeal	TARGET
14527	1	-1	2
14531	3	1	5
14532	0	0	NA
14535	1	-1	2
14543	0	0	1
14554	2	0	4
14556	3	2	5
14557	2	0	4
14561	1	-1	2
14562	3	-1	NA
14567	0	-2	0
14568	0	-2	0
14574	3	-1	4
14575	1	0	3
14579	3	-1	4
14581	2	0	4
14582	1	-2	NA
14586	0	0	1
14591	1	0	3
14598	1	0	3
14599	1	0	NA
14600	0	-1	1
14612	4	0	5
14613	0	-1	1
14624	3	1	5
14626	1	0	3
14630	3	0	4
14633	1	1	3
14639	1	0	NA
14642	2	0	NA
14643	4	0	5
14649	1	1	3
14650	0	0	1
14653	1	0	3
14655	1	-1	2
14656	1	-1	2
14662	2	0	4
14663	0	1	2
14673	1	0	3
14674	1	-1	2
14676	2	0	4
14682	0	0	1
14685	4	0	5
14689	1	0	3
14693	1	0	3
14697	1	0	3
14700	1	0	3
14704	0	1	NA
14710	2	-1	4
14719	2	0	3
14724	2	1	4
14728	3	0	4

INDEX	STARS	LabelAppeal	TARGET
14735	2	0	3
14736	1	-1	NA
14741	0	0	NA
14744	1	1	2
14753	0	0	1
14756	3	0	4
14762	3	1	5
14765	4	0	5
14783	4	0	5
14784	1	-1	2
14786	0	0	1
14790	1	-1	2
14793	2	-1	3
14796	4	1	6
14801	0	1	2
14807	0	-1	1
14812	2	0	4
14815	3	1	5
14831	3	0	4
14833	4	1	5
14836	4	1	5
14856	3	0	4
14859	1	0	NA
14861	1	1	3
14863	0	-1	0
14865	0	0	1
14880	0	0	1
14881	2	0	4
14883	0	-1	1
14884	3	1	NA
14894	2	0	4
14896	3	0	4
14899	2	-1	4
14900	2	-1	4
14901	0	0	NA
14906	2	0	4
14907	0	0	1
14915	3	1	5
14919	1	-1	NA
14926	4	1	5
14927	1	-1	2
14933	2	-1	3
14937	2	-1	3
14939	2	-1	NA
14940	0	0	1
14943	0	-1	1
14953	2	0	4
14954	1	-1	2
14969	2	0	4
14999	4	2	NA
15008	2	0	4
15009	2	0	NA

INDEX	STARS	LabelAppeal	TARGET
15018	2	1	4
15023	2	0	4
15025	0	0	1
15034	2	0	NA
15036	3	0	4
15051	0	1	2
15052	2	-1	3
15064	2	0	4
15070	2	0	3
15074	2	1	4
15077	2	1	4
15081	2	0	4
15086	4	1	5
15093	0	-1	1
15094	0	2	2
15103	1	-1	2
15104	0	-2	NA
15110	0	0	1
15112	1	-2	2
15115	2	2	NA
15131	0	0	1
15139	3	-2	4
15141	2	0	4
15148	0	-1	1
15154	4	1	NA
15156	2	-1	3
15161	1	0	3
15167	2	-1	3
15178	3	0	NA
15205	3	0	4
15207	0	1	NA
15222	2	0	4
15223	3	0	4
15225	3	0	4
15228	2	1	NA
15239	1	-1	NA
15241	0	0	1
15246	0	0	1
15247	0	-1	1
15249	1	0	3
15255	3	-1	NA
15257	0	0	2
15267	0	0	1
15277	2	-1	3
15280	3	1	5
15289	2	1	NA
15297	0	0	1
15302	0	0	1
15304	0	-1	1
15312	0	-1	1
15321	0	-1	NA
15325	0	0	1

INDEX	STARS	LabelAppeal	TARGET
15326	2	1	4
15333	3	1	NA
15337	0	0	1
15338	1	2	4
15340	2	2	5
15342	1	-1	NA
15344	2	-1	4
15347	0	0	1
15349	3	1	NA
15355	1	1	3
15359	0	0	1
15366	0	-1	1
15367	0	-1	NA
15368	0	-1	1
15369	2	1	NA
15380	2	0	4
15381	2	-1	3
15387	0	1	1
15388	1	0	3
15389	0	2	2
15392	0	0	2
15400	2	-1	3
15405	1	1	3
15407	2	0	4
15408	4	2	6
15411	1	0	3
15413	3	0	4
15418	4	0	5
15419	3	1	5
15421	1	0	3
15425	1	0	3
15436	2	0	4
15438	3	0	4
15440	3	0	4
15443	2	0	4
15460	1	0	3
15464	0	-1	1
15465	2	-1	3
15473	0	0	1
15475	2	-2	3
15483	0	0	1
15494	4	0	5
15495	4	2	6
15498	3	-1	4
15499	1	0	3
15500	0	1	2
15501	0	-1	1
15510	1	-1	2
15512	1	-1	2
15516	1	-1	2
15518	3	1	NA
15519	2	0	4

INDEX	STARS	LabelAppeal	TARGET
15524	2	-1	3
15527	0	0	2
15529	0	0	2
15530	0	0	1
15538	0	0	1
15539	1	0	3
15541	0	0	1
15546	0	-1	1
15547	1	0	NA
15548	0	1	NA
15552	1	-1	2
15556	3	1	5
15567	2	-1	NA
15572	1	-1	2
15573	3	1	4
15574	2	0	4
15577	0	-1	1
15579	2	0	4
15581	1	-1	2
15589	0	-1	1
15596	1	0	3
15598	3	1	5
15599	3	0	4
15605	3	2	5
15606	3	0	5
15608	2	0	4
15616	2	1	4
15618	0	0	1
15621	0	0	1
15626	0	0	1
15638	1	0	3
15639	1	-2	NA
15642	1	-2	2
15644	1	0	NA
15646	4	1	NA
15649	2	1	4
15656	0	-1	1
15659	0	1	NA
15680	0	-1	1
15686	3	0	4
15693	0	1	2
15697	3	1	5
15699	4	0	5
15701	2	1	4
15705	0	0	1
15714	1	0	3
15722	3	0	4
15728	2	0	NA
15734	2	-1	3
15752	1	-1	2
15756	2	0	4
15760	2	0	4

INDEX	STARS	LabelAppeal	TARGET
15762	3	0	4
15767	3	-1	4
15768	0	0	NA
15773	3	1	NA
15774	2	0	NA
15781	1	1	NA
15782	1	0	3
15784	4	2	6
15791	1	1	NA
15796	2	1	4
15798	3	1	5
15806	0	-1	1
15814	0	0	1
15819	1	1	3
15825	2	0	4
15826	2	1	4
15831	3	0	NA
15835	4	1	6
15836	0	-1	1
15839	4	0	5
15845	1	0	3
15858	0	0	1
15859	2	0	4
15876	2	1	4
15878	3	0	NA
15880	0	1	2
15886	3	0	NA
15888	1	1	NA
15891	1	1	3
15900	1	-2	NA
15902	3	0	4
15904	1	0	3
15908	1	-1	2
15910	0	-1	1
15917	1	1	4
15919	3	1	5
15924	1	0	3
15927	1	0	3
15937	0	0	NA
15946	2	-1	3
15949	2	-1	3
15957	2	1	4
15961	3	0	5
15964	1	-1	2
15965	2	-1	4
15966	0	1	2
15978	0	0	1
15983	0	1	2
15987	3	-2	NA
15988	1	-1	2
15998	1	-1	3
16004	1	1	3

INDEX	STARS	LabelAppeal	TARGET
16008	3	-1	4
16011	0	1	NA
16023	1	0	3
16024	1	-1	NA
16025	1	0	3
16048	2	2	NA
16050	1	1	3
16051	0	0	2
16057	0	1	2
16059	3	1	5
16060	2	0	4
16075	3	0	4
16094	3	2	5
16096	3	1	5
16116	0	-1	NA
16118	0	0	1
16121	2	-2	3
16122	2	0	4
16124	4	1	6
16125	2	0	4
16126	1	0	NA
16130	3	0	5

Appendix