

California Housing Price Prediction using R

Anoop Reddy

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Installing packages

- **CARET** - Classification And REgression Training
- **ggplot2** - Grammar of Graphics plot v2
- **scales** - Used for alter the limits of a graph
- **corrplot** - Alternative to ggplot heatmap

```
library(caret)
```

```
## Loading required package: ggplot2
```

```
## Loading required package: lattice
```

```
library(ggplot2)  
library(scales)  
library(corrplot)
```

```
## corrplot 0.92 loaded
```

```
library(plotly)
```

```
##  
## Attaching package: 'plotly'
```

```
## The following object is masked from 'package:ggplot2':  
##  
## last_plot
```

```
## The following object is masked from 'package:stats':  
##  
## filter
```

```
## The following object is masked from 'package:graphics':  
##  
## layout
```

```
library(reshape2)
```

- Reading CSV
- Exclude irrelevant features
- Splitting target and features

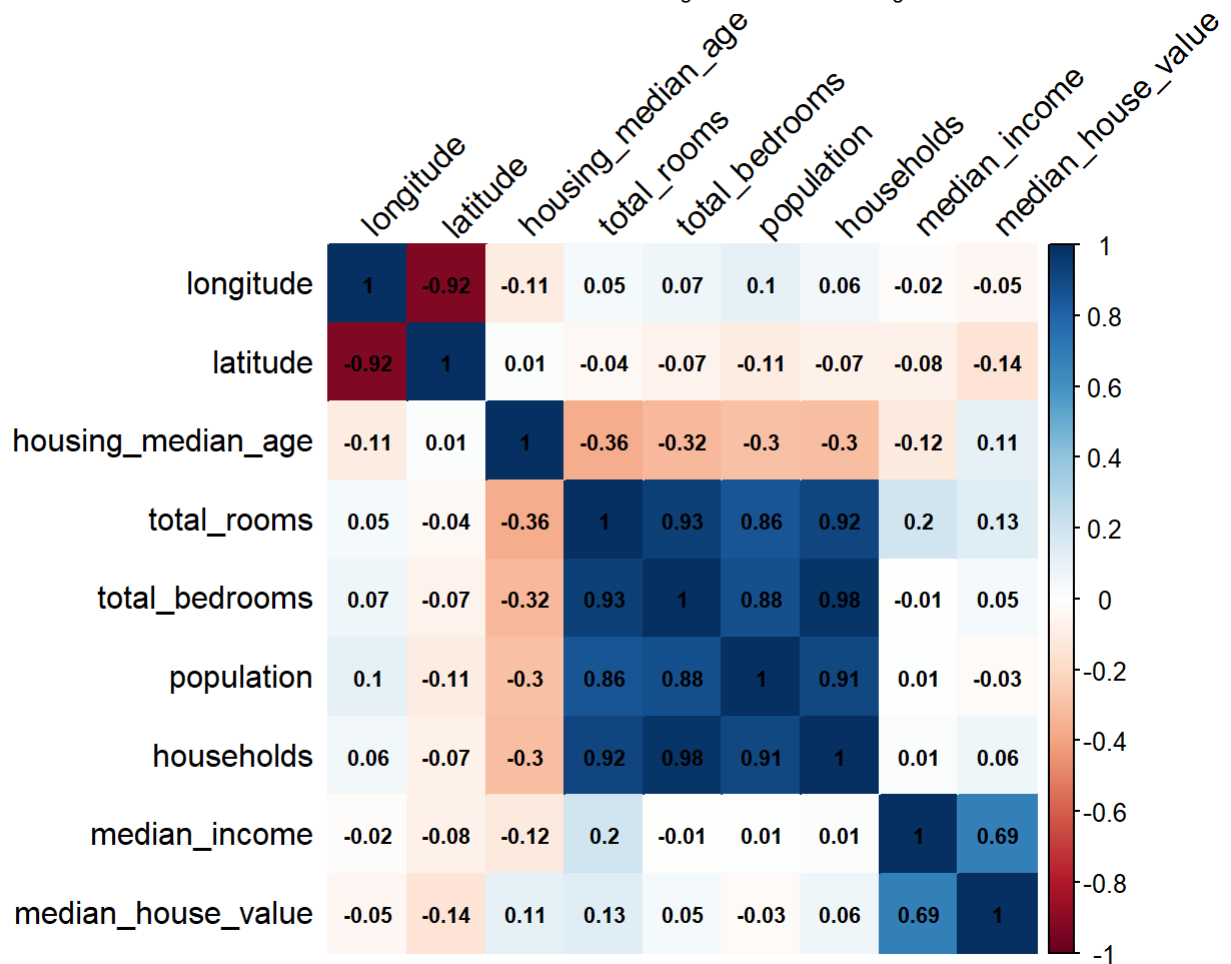
```
housing=read.csv("housing.csv")
housing = na.omit(housing)
housing=housing[, !names(housing) %in% c("ocean_proximity")]

set.seed(69696)

target=housing$median_house_value
target_column="median_house_value"
features=housing[,setdiff(names(housing),target_column)]
```

Heatmap with corrplot

```
cor_matrix = cor(housing)
corrplot(
  cor_matrix,
  method = "color",
  tl.col = "black",
  tl.srt = 45,
  number.cex = 0.7,
  addCoef.col = "black"
)
```

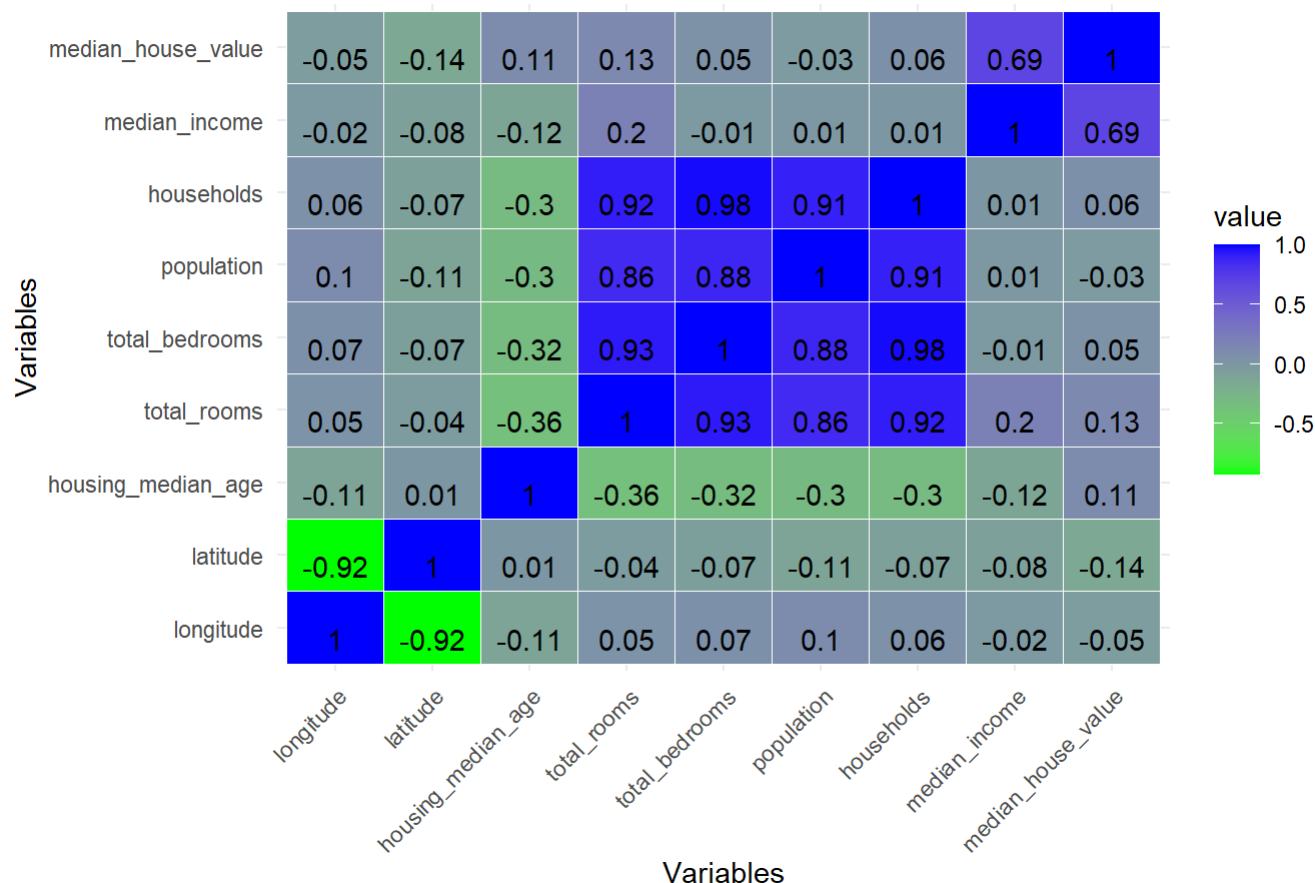


Heatmap with ggplot2

```
melted_cor_matrix = melt(cor_matrix)

ggplot(melted_cor_matrix, aes(Var1, Var2, fill = value)) +
  geom_tile(color = "white") +
  scale_fill_gradient(low = "green", high = "blue") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
  geom_text(aes(label = round(value, 2)), vjust = 1) +
  labs(title = "Correlation Heatmap", x = "Variables", y = "Variables")
```

Correlation Heatmap



Splitting Training and Testing sets

- Training - 75%
- Testing - 25%

```
trainingIndex=createDataPartition(housing[[target_column]],p=0.75,list=FALSE)
x_train=features[trainingIndex,]
y_train=housing$median_house_value[trainingIndex]
x_test=features[-trainingIndex,]
y_test=housing$median_house_value[-trainingIndex]
```

Linear Regression Model

```
lm_model = lm(y_train ~ ., data = cbind(x_train, y_train))
predictions = predict(lm_model, newdata = x_test)
comparison = data.frame(Actual = y_test, Predicted = predictions)
```

Evaluating Metrics (MSE and RMSE)

```
mse = mean((predictions - y_test)^2)
rmse = sqrt(mse)
print(mse)
```

```
## [1] 4679859021
```

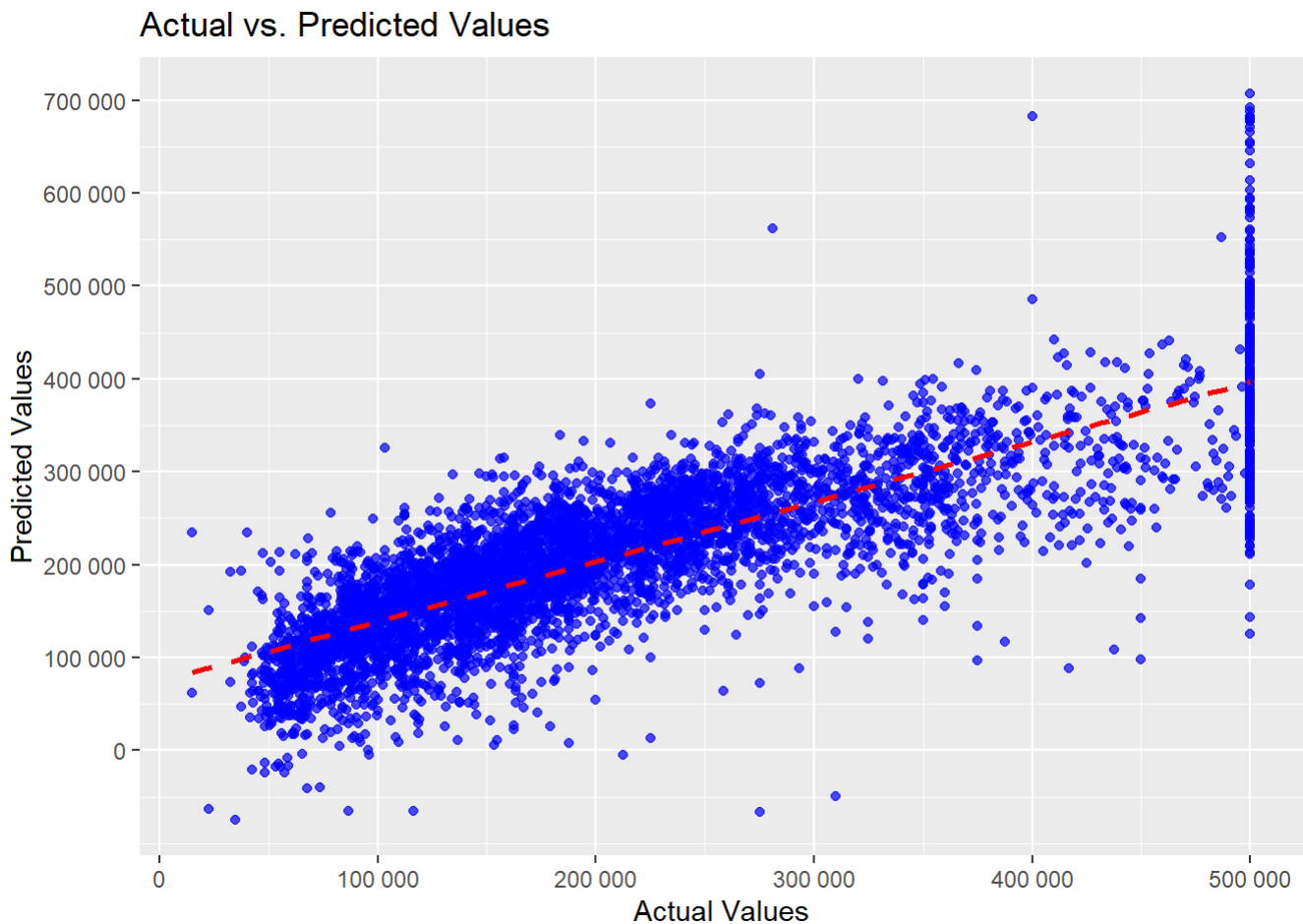
```
print(rmse)
```

```
## [1] 68409.5
```

Scatter Plot with regression line

```
ggplot(comparison, aes(x = Actual, y = Predicted)) +  
  geom_point(color = "blue", alpha = 0.7) +  
  geom_smooth(method = "lm", se = FALSE, linetype = "dashed", color = "red") +  
  ggtitle("Actual vs. Predicted Values") +  
  xlab("Actual Values") +  
  ylab("Predicted Values") +  
  scale_x_continuous(labels = label_number(), breaks = seq(0, max(comparison$Actual), by = 10  
0000)) +  
  scale_y_continuous(labels = label_number(), breaks = seq(0, max(comparison$Predicted), by =  
100000))
```

```
## `geom_smooth()` using formula = 'y ~ x'
```



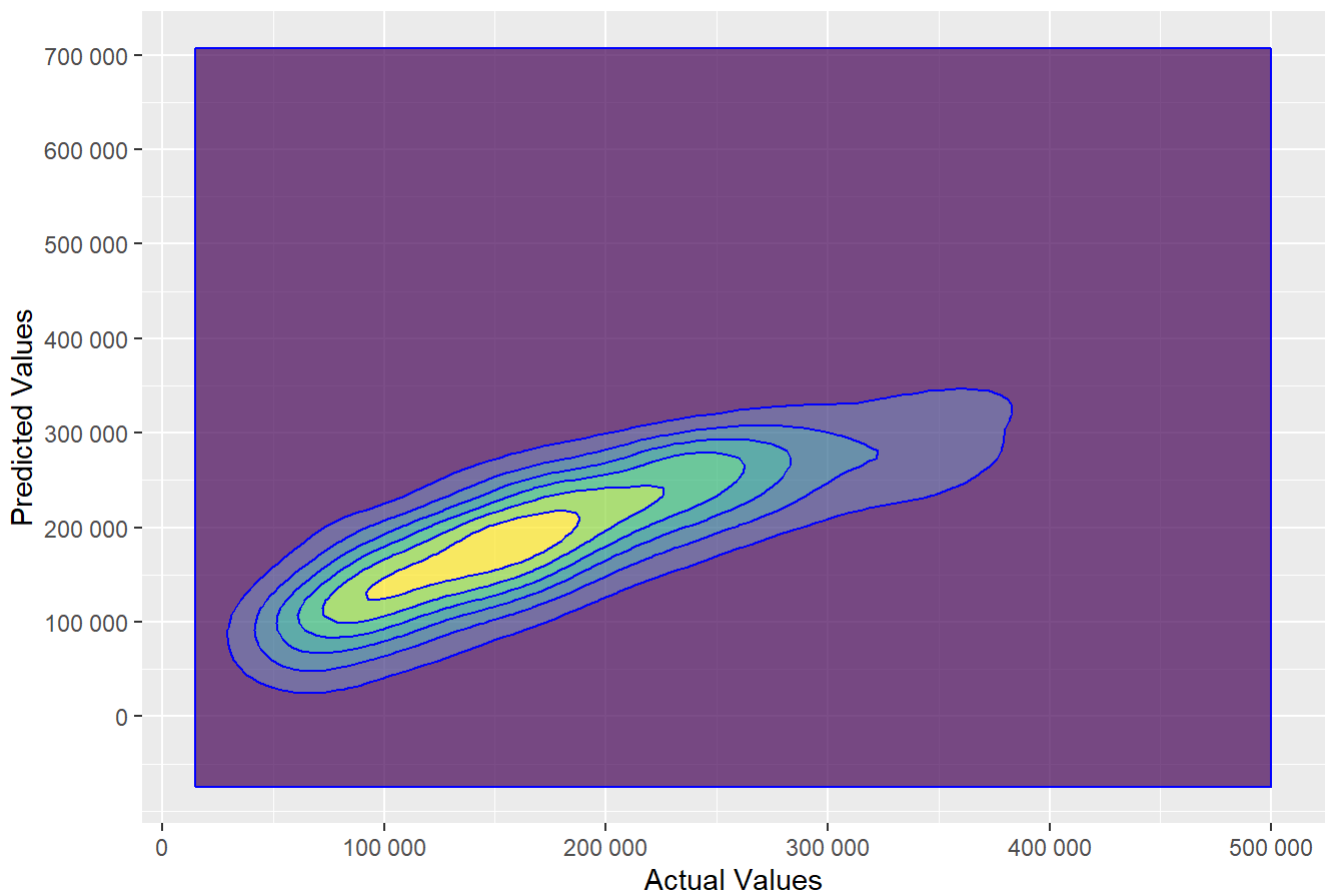
Contour Plot for density and prediction outlier mapping

- Contour plots are used for multi-variate mapping, mostly *3 Dimensional* to determine if a variable is influencing other variables.

```
ggplot(comparison, aes(x = Actual, y = Predicted)) +
  geom_density_2d_filled(color = "blue", alpha = 0.7) +
  ggtitle("Contour Plot of Actual vs. Predicted Values") +
  xlab("Actual Values") +
  ylab("Predicted Values") +
  scale_x_continuous(labels = label_number(), breaks = seq(0, max(comparison$Actual), by = 10
0000)) +
  scale_y_continuous(labels = label_number(), breaks = seq(0, max(comparison$Predicted), by =
100000)) +
  guides(fill = FALSE)
```

```
## Warning: The `<scale>` argument of `guides()` cannot be `FALSE`. Use "none" instead as
## of ggplot2 3.3.4.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

Contour Plot of Actual vs. Predicted Values



```
print(comparison)
```

##	Actual	Predicted
## 5	342200	253580.8235
## 7	299200	253845.5322
## 14	191300	209348.4903
## 15	159200	198845.4995
## 23	113900	185614.2000
## 30	132000	163921.6544
## 31	122300	185797.0401
## 36	97200	160516.7589
## 44	188800	256937.4915
## 47	142500	188382.3874
## 50	112500	174282.5058
## 53	97500	154712.0764
## 55	87500	158639.8264
## 64	76100	146810.3262
## 67	84400	135289.2157
## 71	82500	136996.0511
## 72	95200	132522.3932
## 77	102100	189538.4481
## 78	108300	100099.5559
## 82	112500	139789.0077
## 87	118800	157658.8811
## 89	137500	84820.3229
## 91	162500	158807.3573
## 99	170000	199689.3756
## 101	257800	258166.4830
## 104	350000	251471.9654
## 105	335700	333742.1885
## 106	313400	287960.6756
## 107	268500	254594.3034
## 110	225000	269490.0625
## 112	218500	246066.9262
## 114	224100	249421.8789
## 117	218500	296326.0622
## 129	411500	383163.5415
## 136	351200	398520.1812
## 137	368900	340996.4311
## 141	483300	319055.1584
## 143	323500	358694.6068
## 147	273700	360057.3851
## 148	227700	235294.3603
## 151	270100	262768.2127
## 156	410300	442094.5604
## 158	287300	336322.4417
## 159	348700	394060.0504
## 160	243800	234566.2970
## 162	218400	231427.1126
## 163	269900	258921.2077
## 169	125000	175227.6096
## 172	138800	189851.9903
## 175	127000	183757.6587
## 181	169300	226556.4517
## 187	107900	197029.9725
## 195	125000	236969.5510
## 197	95000	156594.8399

##	198	96400	201005.4583
##	201	80800	204200.0799
##	210	113300	133559.1413
##	211	109500	223848.1648
##	213	125000	216894.0374
##	217	150000	187599.0543
##	218	138800	207426.7651
##	227	229700	261984.2933
##	234	231800	276824.3278
##	235	140500	206581.0862
##	239	139400	188045.2208
##	244	137500	213122.4317
##	245	111700	178985.2153
##	250	131900	170202.7706
##	257	100000	182994.3027
##	258	92300	151447.7928
##	259	94800	167211.8535
##	271	225000	207568.0252
##	284	371000	322574.3725
##	286	135300	205606.4396
##	289	140600	245384.8707
##	295	141900	217804.4402
##	298	107900	183061.3754
##	309	120100	232433.3969
##	312	85700	158123.1931
##	314	101400	195312.4085
##	317	70000	133599.9625
##	318	84600	151448.5607
##	326	83400	185083.3009
##	331	82400	179186.0478
##	341	87100	140434.4926
##	344	82800	160636.6602
##	348	98300	163426.5632
##	350	88800	176305.0525
##	353	91700	154116.9058
##	368	248900	290729.0203
##	374	111100	185782.5115
##	381	109400	246993.4528
##	384	98200	197362.2932
##	386	276800	225683.5956
##	387	270900	311282.0499
##	390	229100	231638.4827
##	393	206300	210994.7405
##	398	216700	254259.2582
##	399	270600	302853.6418
##	405	374400	409423.4512
##	407	417500	368224.7977
##	411	346800	289372.7611
##	414	292000	314596.7848
##	420	342200	359217.1067
##	422	350000	384579.3056
##	425	415300	336621.9161
##	429	259600	273116.6996
##	431	235600	253736.0836
##	432	218400	263888.3441
##	439	140600	205375.7099

##	440	120000	201294.4499
##	442	144800	207646.7128
##	446	185600	222724.9308
##	450	212000	223943.4881
##	455	338900	224583.5256
##	461	175000	73370.5778
##	464	211300	222542.2934
##	465	210200	231380.4772
##	467	191700	243158.1614
##	470	165900	196721.1057
##	472	164300	218446.2853
##	475	169900	186828.9324
##	476	147400	195240.6396
##	484	218800	210882.3083
##	487	257400	251906.1295
##	492	456300	301141.4930
##	497	309600	255974.1333
##	498	182300	240163.1672
##	501	153600	170429.5364
##	504	119400	214960.8023
##	517	471600	412328.3441
##	522	335300	284909.3147
##	526	206300	252929.2882
##	528	210200	229255.2890
##	533	207900	207020.8840
##	535	212900	250429.4377
##	542	242800	278342.2398
##	548	220800	232558.5815
##	550	254200	246233.3462
##	557	243400	262150.2575
##	560	244000	255766.3342
##	565	286600	291696.7648
##	569	228400	269900.8886
##	570	206200	252262.6869
##	572	231000	259986.8539
##	580	254900	291644.4969
##	583	340400	313402.1386
##	584	274700	289991.5059
##	586	266400	274712.7025
##	587	330200	300040.5576
##	595	227000	279902.1241
##	605	195700	220978.6871
##	611	188300	274450.3096
##	619	245400	233183.1775
##	620	177500	236010.0340
##	622	183300	250872.6937
##	626	179800	213261.1513
##	631	159700	232579.6830
##	634	166300	260449.7248
##	637	137500	217333.6942
##	642	264700	295186.2748
##	643	218400	217572.8064
##	644	235100	240753.2721
##	656	181700	224697.9145
##	663	223100	211146.4065
##	664	271300	239902.9162

## 669	197300	236883.2254
## 671	192200	229224.6224
## 675	83300	167667.7426
## 680	205200	249993.6432
## 682	183600	284453.5243
## 683	178400	222023.5283
## 684	219200	223485.1108
## 686	157100	212227.4398
## 689	152100	208247.2934
## 694	161400	170916.2203
## 695	170400	165278.0445
## 699	160900	226888.6696
## 702	431000	308939.7300
## 709	218100	206987.3935
## 710	170300	232853.5019
## 713	160000	115734.6706
## 716	150000	216356.4981
## 721	174000	194217.7851
## 725	167100	199909.7617
## 726	148900	207205.0049
## 727	196400	254822.5702
## 730	180600	225983.1591
## 737	196200	241208.6564
## 741	184000	236158.0109
## 744	167200	207382.5266
## 752	230600	214171.7853
## 754	165300	237770.4089
## 755	254200	305390.2674
## 756	332600	322343.7520
## 767	152600	201154.4330
## 768	195200	212827.8958
## 771	200600	259649.3719
## 774	172700	240828.0748
## 776	194400	256905.1822
## 782	173600	245924.5740
## 788	189500	228566.2929
## 789	184200	227345.8467
## 793	173100	239158.6710
## 799	182700	229911.0152
## 813	209500	229422.0569
## 830	203900	226525.7936
## 833	159800	166563.6541
## 845	244300	303082.7511
## 846	247000	281103.4849
## 848	151400	220557.4649
## 858	147900	195659.4569
## 864	295600	270676.0910
## 870	278200	260371.6909
## 873	223400	241774.9969
## 874	214500	298644.8397
## 878	224200	207951.6464
## 882	231200	255403.6485
## 885	196200	254425.3591
## 890	333400	306039.7609
## 894	248900	258129.5281
## 895	356000	338440.1925

##	898	228000	265855.9679
##	905	225000	271892.5039
##	914	287600	293852.0421
##	920	223500	243868.6753
##	921	223900	267335.7433
##	928	337300	294491.8966
##	932	223800	256697.8149
##	938	186000	262053.3059
##	941	210300	215271.6524
##	945	242200	276765.1912
##	946	181700	286966.4568
##	951	213800	244371.0452
##	952	206000	229368.7090
##	957	285400	329897.8754
##	958	323000	306443.0909
##	959	291900	335633.0956
##	961	259600	283597.7661
##	965	339700	292894.9191
##	966	337200	336121.4465
##	968	311500	308393.8808
##	970	247900	295326.9373
##	987	400000	485153.7102
##	988	375000	246503.0462
##	994	450000	290150.9697
##	996	192400	253201.6751
##	1003	174600	205879.0733
##	1004	168400	235717.4646
##	1011	238900	302340.9912
##	1014	204400	239700.1361
##	1017	350000	289459.1947
##	1026	120900	121234.1176
##	1027	119000	88239.9596
##	1034	116700	63460.7606
##	1035	123800	110986.1803
##	1039	107200	103412.6183
##	1042	99100	134347.0765
##	1043	103000	111278.2355
##	1045	144100	118043.9103
##	1048	118500	97103.0414
##	1049	116700	75152.7457
##	1053	123600	128776.9712
##	1055	107300	103800.8757
##	1058	102300	70734.8497
##	1059	87300	102026.2621
##	1066	85800	78071.1398
##	1077	122600	96682.6900
##	1078	116300	91668.6818
##	1079	179200	25348.2479
##	1082	200000	54312.7016
##	1084	69000	48617.5215
##	1092	116700	38190.8732
##	1094	139200	116689.2023
##	1097	87500	83421.9745
##	1100	93800	90105.7625
##	1101	95300	65217.1253
##	1106	93200	55469.8557

##	1107	117900	36314.9563
##	1111	107700	55500.8153
##	1113	88300	13212.5182
##	1124	110200	79955.9582
##	1128	85500	43478.2478
##	1141	83800	47207.2583
##	1143	111200	46248.3624
##	1151	53600	43721.7217
##	1153	84100	31995.0824
##	1154	142300	99300.8896
##	1162	62100	87104.3591
##	1169	56100	45370.1891
##	1172	57600	59539.0887
##	1174	59800	37924.2691
##	1175	65200	33252.8758
##	1179	50300	26643.2190
##	1183	88900	78976.0294
##	1188	57100	69987.9479
##	1189	49000	41907.8626
##	1193	61300	73191.8519
##	1194	73800	55633.6860
##	1196	86400	28627.7884
##	1199	56200	79265.1258
##	1205	81300	86671.5088
##	1213	92200	102748.7837
##	1217	90400	99716.3383
##	1222	104000	80030.0503
##	1223	101600	108772.3420
##	1224	92600	67720.8775
##	1225	122300	91716.7445
##	1226	112500	54743.3111
##	1228	77400	68663.7333
##	1231	94700	35866.2724
##	1233	139900	92234.6885
##	1240	108300	110362.7421
##	1241	77500	85413.9229
##	1243	67500	140817.7978
##	1249	108000	137731.6260
##	1250	65500	102545.6143
##	1252	62700	117179.2026
##	1253	68800	92214.8165
##	1268	119400	120900.9283
##	1270	125400	175734.0250
##	1271	151400	172204.7780
##	1277	241400	220088.5777
##	1282	105100	158990.8633
##	1285	99100	143003.9319
##	1286	96400	136974.3972
##	1288	87500	81115.7810
##	1289	133900	208920.9868
##	1290	146800	173755.7363
##	1295	168100	184097.6095
##	1301	97300	179647.3652
##	1306	145300	229738.8961
##	1309	142500	211044.4164
##	1311	126100	186100.4311

```
## 1317 122500 188627.5634
## 1320 158600 213897.9107
## 1325 87700 160004.0515
## 1333 151900 246287.0357
## 1340 103900 158207.5593
## 1342 136000 202810.9271
## 1344 99200 207341.3648
## 1352 87100 117444.5313
## 1354 100700 131971.8101
## 1355 113900 169565.2771
## 1357 125000 189181.7104
## 1359 83500 163363.2442
## 1361 98500 178368.3432
## 1364 133900 173641.4563
## 1365 225000 172105.9531
## 1369 139300 180448.8626
## 1370 150800 192998.3147
## 1378 113700 212473.1358
## 1382 212600 267859.4383
## 1387 245200 303353.1156
## 1392 269600 270323.8931
## 1402 190000 252544.6688
## 1407 169400 228866.5665
## 1410 205100 214313.1136
## 1411 220800 174486.3276
## 1413 232100 263250.9789
## 1414 265700 248529.1620
## 1420 250000 281043.1715
## 1423 136400 212989.6758
## 1427 178300 271116.8324
## 1431 178200 231243.7807
## 1440 211500 207853.8150
## 1443 192300 263894.9714
## 1446 217200 289885.5614
## 1447 182000 253252.3163
## 1449 161000 223969.6884
## 1459 231100 277324.2292
## 1461 207200 254235.1887
## 1462 184100 242903.5643
## 1469 200600 257156.5012
## 1472 206200 274586.2370
## 1473 171000 222047.3851
## 1475 160900 198724.9339
## 1479 151000 191626.0514
## 1481 159800 212153.7511
## 1483 175000 155537.0191
## 1484 182000 199159.8174
## 1485 190800 263338.0181
## 1490 208300 152246.8531
## 1491 202300 255827.6785
## 1501 231400 271223.9128
## 1502 227800 232547.7243
## 1509 234700 339347.4079
## 1512 367700 329547.6319
## 1513 275300 261122.7730
## 1520 250000 244800.9556
```

```
## 1521 264900 297463.5552
## 1524 306800 260843.6893
## 1534 335700 260403.9542
## 1536 349100 355261.4132
## 1541 390600 310259.9241
## 1544 260300 298232.5532
## 1545 275000 292650.0828
## 1551 343500 307135.1328
## 1554 345800 333003.0713
## 1556 359100 260605.8435
## 1559 369200 354257.5715
## 1570 399300 339823.2660
## 1571 443800 369225.6442
## 1573 256400 247559.1403
## 1579 358700 367013.9404
## 1584 500001 561119.4391
## 1585 398200 342468.2360
## 1588 372000 356160.5195
## 1589 351300 358631.2291
## 1591 382200 353029.2365
## 1596 406500 339779.4576
## 1602 350000 179644.5987
## 1609 186500 288453.1617
## 1619 416500 356548.7134
## 1620 364500 321106.5522
## 1622 500001 475809.6619
## 1635 367500 369057.9127
## 1641 204200 211744.2122
## 1645 500001 454757.5163
## 1649 210100 158652.6220
## 1651 181200 228841.9124
## 1652 285400 304371.9940
## 1655 365800 355082.0138
## 1658 237400 255439.5511
## 1661 291700 290850.2762
## 1671 147100 199280.3155
## 1676 150200 231679.3474
## 1678 147700 131509.3496
## 1683 162000 245022.6499
## 1684 191100 248643.5813
## 1685 195000 208025.8228
## 1686 193300 237097.4509
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