Exercise 3

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# Problem 1: What causes what?

# Problem 2: Tree modeling: dengue cases

# Problem 3: Predictive model building: green certification

# problem 4: Predictive model building: California housing

Our purpose is to build the best predictive model to forecast the median house value in California. According to the topic description, in the beginning, we have to conduct standardized processing for “totalRooms” and totalBedrooms" by creating the new variables including “sdrooms” and “sdbedrooms”. Then we utilized three different methods including Step wise, Random Forecast and boost, to build the best predictive model.

## longitude latitude housingMedianAge totalRooms totalBedrooms population  
## 1 -122.23 37.88 41 880 129 322  
## 2 -122.22 37.86 21 7099 1106 2401  
## 3 -122.24 37.85 52 1467 190 496  
## 4 -122.25 37.85 52 1274 235 558  
## 5 -122.25 37.85 52 1627 280 565  
## 6 -122.25 37.85 52 919 213 413  
## households medianIncome medianHouseValue  
## 1 126 8.3252 452600  
## 2 1138 8.3014 358500  
## 3 177 7.2574 352100  
## 4 219 5.6431 341300  
## 5 259 3.8462 342200  
## 6 193 4.0368 269700

##   
## Call:  
## lm(formula = medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome, data = cahousing\_train)  
##   
## Coefficients:  
## (Intercept) longitude latitude housingMedianAge   
## -3.805e+06 -4.487e+04 -4.365e+04 9.050e+02   
## sdrooms sdbedrooms population medianIncome   
## -9.301e+03 5.734e+04 -6.896e-01 4.258e+04

## Start: AIC=323597.4  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + sdbedrooms:population 1 6.6567e+11 7.6430e+13 323474  
## + housingMedianAge:medianIncome 1 2.9922e+11 7.6797e+13 323543  
## + sdrooms:sdbedrooms 1 2.7915e+11 7.6817e+13 323547  
## + sdrooms:medianIncome 1 1.6894e+11 7.6927e+13 323568  
## + housingMedianAge:sdbedrooms 1 1.3729e+11 7.6958e+13 323574  
## + population:medianIncome 1 1.0872e+11 7.6987e+13 323579  
## + sdbedrooms:medianIncome 1 1.0863e+11 7.6987e+13 323579  
## + latitude:medianIncome 1 1.0688e+11 7.6989e+13 323579  
## + housingMedianAge:sdrooms 1 1.0200e+11 7.6994e+13 323580  
## + latitude:sdbedrooms 1 8.6337e+10 7.7009e+13 323583  
## + longitude:housingMedianAge 1 6.7934e+10 7.7028e+13 323587  
## + latitude:housingMedianAge 1 3.4557e+10 7.7061e+13 323593  
## + longitude:population 1 2.4709e+10 7.7071e+13 323595  
## + longitude:sdbedrooms 1 1.8900e+10 7.7077e+13 323596  
## + latitude:population 1 1.6803e+10 7.7079e+13 323596  
## - population 1 7.9993e+09 7.7104e+13 323597  
## <none> 7.7096e+13 323597  
## + housingMedianAge:population 1 6.0313e+09 7.7090e+13 323598  
## + longitude:medianIncome 1 4.3106e+09 7.7091e+13 323599  
## + latitude:sdrooms 1 4.1871e+09 7.7092e+13 323599  
## + longitude:latitude 1 3.0180e+09 7.7093e+13 323599  
## + longitude:sdrooms 1 2.9964e+09 7.7093e+13 323599  
## + sdrooms:population 1 2.6442e+09 7.7093e+13 323599  
## - sdrooms 1 9.5542e+11 7.8051e+13 323773  
## - housingMedianAge 1 1.5151e+12 7.8611e+13 323877  
## - sdbedrooms 1 1.5851e+12 7.8681e+13 323889  
## - longitude 1 1.3052e+13 9.0147e+13 325855  
## - latitude 1 1.3528e+13 9.0623e+13 325931  
## - medianIncome 1 3.8558e+13 1.1565e+14 329454  
##   
## Step: AIC=323474.1  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population  
##   
## Df Sum of Sq RSS AIC  
## + housingMedianAge:medianIncome 1 2.7811e+11 7.6152e+13 323423  
## + sdrooms:population 1 2.4824e+11 7.6182e+13 323429  
## + sdrooms:medianIncome 1 2.3855e+11 7.6192e+13 323431  
## + latitude:sdrooms 1 1.5486e+11 7.6275e+13 323447  
## + sdbedrooms:medianIncome 1 1.3506e+11 7.6295e+13 323451  
## + population:medianIncome 1 1.1730e+11 7.6313e+13 323454  
## + latitude:medianIncome 1 1.1480e+11 7.6315e+13 323454  
## + latitude:housingMedianAge 1 5.9619e+10 7.6370e+13 323465  
## + longitude:population 1 4.0631e+10 7.6389e+13 323468  
## + longitude:housingMedianAge 1 3.1802e+10 7.6398e+13 323470  
## + housingMedianAge:sdbedrooms 1 2.9988e+10 7.6400e+13 323470  
## + sdrooms:sdbedrooms 1 2.7551e+10 7.6403e+13 323471  
## + housingMedianAge:population 1 2.3248e+10 7.6407e+13 323472  
## + housingMedianAge:sdrooms 1 2.1654e+10 7.6408e+13 323472  
## + longitude:sdrooms 1 2.0835e+10 7.6409e+13 323472  
## + latitude:population 1 1.8355e+10 7.6412e+13 323473  
## <none> 7.6430e+13 323474  
## + latitude:sdbedrooms 1 7.2738e+09 7.6423e+13 323475  
## + longitude:sdbedrooms 1 6.9012e+09 7.6423e+13 323475  
## + longitude:medianIncome 1 6.4495e+09 7.6424e+13 323475  
## + longitude:latitude 1 4.6992e+09 7.6425e+13 323475  
## - sdbedrooms:population 1 6.6567e+11 7.7096e+13 323597  
## - sdrooms 1 9.2568e+11 7.7356e+13 323646  
## - housingMedianAge 1 1.6749e+12 7.8105e+13 323785  
## - longitude 1 1.3534e+13 8.9964e+13 325827  
## - latitude 1 1.3973e+13 9.0403e+13 325898  
## - medianIncome 1 3.8885e+13 1.1532e+14 329414  
##   
## Step: AIC=323423.5  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + population:medianIncome 1 2.5290e+11 7.5899e+13 323377  
## + sdrooms:medianIncome 1 1.8810e+11 7.5964e+13 323390  
## + sdrooms:population 1 1.6429e+11 7.5988e+13 323394  
## + housingMedianAge:sdrooms 1 1.6188e+11 7.5990e+13 323395  
## + latitude:medianIncome 1 1.3921e+11 7.6013e+13 323399  
## + latitude:sdrooms 1 1.3361e+11 7.6018e+13 323400  
## + sdbedrooms:medianIncome 1 1.0757e+11 7.6044e+13 323405  
## + longitude:population 1 4.2538e+10 7.6109e+13 323417  
## + latitude:housingMedianAge 1 3.8979e+10 7.6113e+13 323418  
## + longitude:housingMedianAge 1 3.5734e+10 7.6116e+13 323419  
## + sdrooms:sdbedrooms 1 2.7114e+10 7.6125e+13 323420  
## + housingMedianAge:population 1 2.5185e+10 7.6127e+13 323421  
## + housingMedianAge:sdbedrooms 1 2.1262e+10 7.6131e+13 323421  
## + longitude:medianIncome 1 2.0056e+10 7.6132e+13 323422  
## + latitude:population 1 1.6925e+10 7.6135e+13 323422  
## + longitude:sdrooms 1 1.1810e+10 7.6140e+13 323423  
## <none> 7.6152e+13 323423  
## + longitude:sdbedrooms 1 6.4117e+09 7.6146e+13 323424  
## + latitude:sdbedrooms 1 6.4033e+09 7.6146e+13 323424  
## + longitude:latitude 1 4.8043e+09 7.6147e+13 323425  
## - housingMedianAge:medianIncome 1 2.7811e+11 7.6430e+13 323474  
## - sdbedrooms:population 1 6.4455e+11 7.6797e+13 323543  
## - sdrooms 1 8.3462e+11 7.6987e+13 323579  
## - longitude 1 1.3736e+13 8.9888e+13 325817  
## - latitude 1 1.4192e+13 9.0344e+13 325890  
##   
## Step: AIC=323377.4  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + sdrooms:population 1 1.2116e+12 7.4687e+13 323147  
## + housingMedianAge:sdrooms 1 1.6375e+11 7.5735e+13 323348  
## + latitude:sdrooms 1 1.5474e+11 7.5744e+13 323350  
## + sdrooms:medianIncome 1 1.4874e+11 7.5750e+13 323351  
## + latitude:medianIncome 1 1.0846e+11 7.5791e+13 323359  
## + housingMedianAge:population 1 9.6481e+10 7.5803e+13 323361  
## + sdbedrooms:medianIncome 1 9.2281e+10 7.5807e+13 323362  
## + latitude:housingMedianAge 1 4.2887e+10 7.5856e+13 323371  
## + longitude:population 1 4.2266e+10 7.5857e+13 323371  
## + longitude:housingMedianAge 1 3.2815e+10 7.5866e+13 323373  
## + latitude:population 1 2.2274e+10 7.5877e+13 323375  
## + sdrooms:sdbedrooms 1 2.1815e+10 7.5877e+13 323375  
## + housingMedianAge:sdbedrooms 1 2.1060e+10 7.5878e+13 323375  
## + longitude:sdrooms 1 1.4997e+10 7.5884e+13 323377  
## + longitude:medianIncome 1 1.0854e+10 7.5888e+13 323377  
## <none> 7.5899e+13 323377  
## + latitude:sdbedrooms 1 6.5151e+09 7.5893e+13 323378  
## + longitude:latitude 1 5.9722e+09 7.5893e+13 323378  
## + longitude:sdbedrooms 1 5.6505e+09 7.5893e+13 323378  
## - population:medianIncome 1 2.5290e+11 7.6152e+13 323423  
## - housingMedianAge:medianIncome 1 4.1370e+11 7.6313e+13 323454  
## - sdbedrooms:population 1 6.5212e+11 7.6551e+13 323499  
## - sdrooms 1 9.1104e+11 7.6810e+13 323548  
## - longitude 1 1.3675e+13 8.9574e+13 325769  
## - latitude 1 1.4175e+13 9.0074e+13 325849  
##   
## Step: AIC=323146.9  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population  
##   
## Df Sum of Sq RSS AIC  
## + housingMedianAge:sdrooms 1 1.7357e+11 7.4514e+13 323115  
## + latitude:medianIncome 1 1.0992e+11 7.4578e+13 323128  
## + sdrooms:medianIncome 1 9.7157e+10 7.4590e+13 323130  
## + latitude:population 1 7.2514e+10 7.4615e+13 323135  
## + latitude:sdrooms 1 4.4258e+10 7.4643e+13 323140  
## + longitude:housingMedianAge 1 4.3998e+10 7.4643e+13 323140  
## + latitude:housingMedianAge 1 4.2836e+10 7.4645e+13 323141  
## + longitude:population 1 3.8786e+10 7.4649e+13 323141  
## + sdbedrooms:medianIncome 1 2.4528e+10 7.4663e+13 323144  
## + sdrooms:sdbedrooms 1 1.6770e+10 7.4671e+13 323146  
## + longitude:medianIncome 1 1.3223e+10 7.4674e+13 323146  
## <none> 7.4687e+13 323147  
## + longitude:sdbedrooms 1 6.0602e+09 7.4681e+13 323148  
## + housingMedianAge:sdbedrooms 1 5.4349e+09 7.4682e+13 323148  
## + housingMedianAge:population 1 3.7954e+09 7.4684e+13 323148  
## + latitude:sdbedrooms 1 3.7755e+09 7.4684e+13 323148  
## + longitude:sdrooms 1 2.6732e+09 7.4685e+13 323148  
## + longitude:latitude 1 6.9844e+08 7.4687e+13 323149  
## - housingMedianAge:medianIncome 1 4.2696e+11 7.5114e+13 323227  
## - sdrooms:population 1 1.2116e+12 7.5899e+13 323377  
## - population:medianIncome 1 1.3002e+12 7.5988e+13 323394  
## - sdbedrooms:population 1 1.7404e+12 7.6428e+13 323478  
## - longitude 1 1.2608e+13 8.7296e+13 325399  
## - latitude 1 1.2925e+13 8.7612e+13 325451  
##   
## Step: AIC=323115.3  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms  
##   
## Df Sum of Sq RSS AIC  
## + housingMedianAge:sdbedrooms 1 3.8886e+11 7.4125e+13 323042  
## + sdrooms:medianIncome 1 1.2543e+11 7.4388e+13 323093  
## + latitude:medianIncome 1 1.1699e+11 7.4397e+13 323095  
## + latitude:population 1 7.3694e+10 7.4440e+13 323103  
## + latitude:sdrooms 1 6.4806e+10 7.4449e+13 323105  
## + longitude:housingMedianAge 1 4.7302e+10 7.4467e+13 323108  
## + longitude:population 1 3.5957e+10 7.4478e+13 323110  
## + sdbedrooms:medianIncome 1 2.5986e+10 7.4488e+13 323112  
## + latitude:housingMedianAge 1 2.5420e+10 7.4488e+13 323112  
## + longitude:sdbedrooms 1 2.3344e+10 7.4491e+13 323113  
## + sdrooms:sdbedrooms 1 2.3006e+10 7.4491e+13 323113  
## + latitude:sdbedrooms 1 1.8365e+10 7.4496e+13 323114  
## + longitude:sdrooms 1 1.5482e+10 7.4498e+13 323114  
## + longitude:medianIncome 1 1.3150e+10 7.4501e+13 323115  
## <none> 7.4514e+13 323115  
## + housingMedianAge:population 1 8.6464e+09 7.4505e+13 323116  
## + longitude:latitude 1 2.0770e+08 7.4514e+13 323117  
## - housingMedianAge:sdrooms 1 1.7357e+11 7.4687e+13 323147  
## - housingMedianAge:medianIncome 1 5.8668e+11 7.5101e+13 323227  
## - sdrooms:population 1 1.2214e+12 7.5735e+13 323348  
## - population:medianIncome 1 1.3105e+12 7.5824e+13 323365  
## - sdbedrooms:population 1 1.4834e+12 7.5997e+13 323398  
## - longitude 1 1.2720e+13 8.7234e+13 325390  
## - latitude 1 1.3028e+13 8.7542e+13 325441  
##   
## Step: AIC=323041.7  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms  
##   
## Df Sum of Sq RSS AIC  
## + sdrooms:medianIncome 1 2.2471e+11 7.3900e+13 323000  
## + latitude:medianIncome 1 1.2308e+11 7.4002e+13 323020  
## + sdbedrooms:medianIncome 1 7.6477e+10 7.4049e+13 323029  
## + latitude:population 1 6.4726e+10 7.4060e+13 323031  
## + longitude:housingMedianAge 1 5.8782e+10 7.4066e+13 323032  
## + longitude:population 1 3.4846e+10 7.4090e+13 323037  
## + latitude:sdrooms 1 3.0814e+10 7.4094e+13 323038  
## + housingMedianAge:population 1 1.4848e+10 7.4110e+13 323041  
## + longitude:medianIncome 1 1.1347e+10 7.4114e+13 323042  
## <none> 7.4125e+13 323042  
## + sdrooms:sdbedrooms 1 9.2613e+09 7.4116e+13 323042  
## + latitude:housingMedianAge 1 8.9401e+09 7.4116e+13 323042  
## + longitude:sdrooms 1 4.6323e+09 7.4120e+13 323043  
## + longitude:sdbedrooms 1 4.1270e+09 7.4121e+13 323043  
## + latitude:sdbedrooms 1 2.3471e+09 7.4123e+13 323043  
## + longitude:latitude 1 7.9678e+07 7.4125e+13 323044  
## - housingMedianAge:sdbedrooms 1 3.8886e+11 7.4514e+13 323115  
## - housingMedianAge:sdrooms 1 5.5699e+11 7.4682e+13 323148  
## - housingMedianAge:medianIncome 1 9.7496e+11 7.5100e+13 323229  
## - sdrooms:population 1 1.4142e+12 7.5539e+13 323313  
## - population:medianIncome 1 1.4684e+12 7.5593e+13 323323  
## - sdbedrooms:population 1 1.6831e+12 7.5808e+13 323364  
## - longitude 1 1.2822e+13 8.6947e+13 325345  
## - latitude 1 1.3137e+13 8.7262e+13 325397  
##   
## Step: AIC=322999.9  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + latitude:medianIncome 1 1.2401e+11 7.3776e+13 322978  
## + longitude:housingMedianAge 1 6.2304e+10 7.3838e+13 322990  
## + latitude:population 1 5.9217e+10 7.3841e+13 322990  
## + longitude:population 1 3.2929e+10 7.3867e+13 322995  
## + latitude:sdrooms 1 2.0241e+10 7.3880e+13 322998  
## + housingMedianAge:population 1 1.2096e+10 7.3888e+13 322999  
## + longitude:medianIncome 1 1.1949e+10 7.3888e+13 323000  
## <none> 7.3900e+13 323000  
## + longitude:sdrooms 1 7.4972e+09 7.3893e+13 323000  
## + longitude:sdbedrooms 1 7.4583e+09 7.3893e+13 323000  
## + sdrooms:sdbedrooms 1 7.0202e+09 7.3893e+13 323000  
## + sdbedrooms:medianIncome 1 6.4534e+09 7.3894e+13 323001  
## + latitude:housingMedianAge 1 5.7538e+09 7.3895e+13 323001  
## + latitude:sdbedrooms 1 1.7179e+09 7.3899e+13 323002  
## + longitude:latitude 1 7.6457e+07 7.3900e+13 323002  
## - sdrooms:medianIncome 1 2.2471e+11 7.4125e+13 323042  
## - housingMedianAge:sdbedrooms 1 4.8814e+11 7.4388e+13 323093  
## - housingMedianAge:sdrooms 1 6.8445e+11 7.4585e+13 323131  
## - housingMedianAge:medianIncome 1 1.0237e+12 7.4924e+13 323197  
## - population:medianIncome 1 1.3465e+12 7.5247e+13 323259  
## - sdrooms:population 1 1.3686e+12 7.5269e+13 323263  
## - sdbedrooms:population 1 1.7303e+12 7.5631e+13 323332  
## - longitude 1 1.2481e+13 8.6381e+13 325252  
## - latitude 1 1.2797e+13 8.6697e+13 325305  
##   
## Step: AIC=322977.6  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + longitude:medianIncome 1 5.8220e+11 7.3194e+13 322865  
## + latitude:sdrooms 1 8.2593e+10 7.3694e+13 322963  
## + latitude:population 1 6.4931e+10 7.3711e+13 322967  
## + longitude:sdrooms 1 5.0105e+10 7.3726e+13 322970  
## + longitude:housingMedianAge 1 4.4472e+10 7.3732e+13 322971  
## + longitude:population 1 3.5977e+10 7.3740e+13 322973  
## + latitude:housingMedianAge 1 1.6247e+10 7.3760e+13 322976  
## + housingMedianAge:population 1 1.1806e+10 7.3765e+13 322977  
## <none> 7.3776e+13 322978  
## + sdbedrooms:medianIncome 1 8.2266e+09 7.3768e+13 322978  
## + sdrooms:sdbedrooms 1 5.7565e+09 7.3771e+13 322978  
## + longitude:sdbedrooms 1 2.5200e+09 7.3774e+13 322979  
## + longitude:latitude 1 1.7158e+09 7.3775e+13 322979  
## + latitude:sdbedrooms 1 2.8220e+08 7.3776e+13 322980  
## - latitude:medianIncome 1 1.2401e+11 7.3900e+13 323000  
## - sdrooms:medianIncome 1 2.2564e+11 7.4002e+13 323020  
## - housingMedianAge:sdbedrooms 1 4.9511e+11 7.4271e+13 323072  
## - housingMedianAge:sdrooms 1 6.9822e+11 7.4475e+13 323112  
## - housingMedianAge:medianIncome 1 1.0526e+12 7.4829e+13 323180  
## - population:medianIncome 1 1.2944e+12 7.5071e+13 323227  
## - sdrooms:population 1 1.3721e+12 7.5148e+13 323242  
## - sdbedrooms:population 1 1.7377e+12 7.5514e+13 323312  
## - longitude 1 1.2461e+13 8.6237e+13 325230  
##   
## Step: AIC=322865.1  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + latitude:sdrooms 1 9.8531e+10 7.3096e+13 322848  
## + sdbedrooms:medianIncome 1 9.0729e+10 7.3103e+13 322849  
## + latitude:population 1 7.5046e+10 7.3119e+13 322852  
## + longitude:housingMedianAge 1 4.8928e+10 7.3145e+13 322857  
## + longitude:population 1 3.8666e+10 7.3155e+13 322860  
## + latitude:housingMedianAge 1 2.7764e+10 7.3166e+13 322862  
## + longitude:sdrooms 1 2.5292e+10 7.3169e+13 322862  
## + housingMedianAge:population 1 1.7942e+10 7.3176e+13 322864  
## <none> 7.3194e+13 322865  
## + longitude:sdbedrooms 1 8.1700e+09 7.3186e+13 322866  
## + longitude:latitude 1 3.0695e+09 7.3191e+13 322867  
## + sdrooms:sdbedrooms 1 2.4812e+09 7.3192e+13 322867  
## + latitude:sdbedrooms 1 1.4772e+09 7.3193e+13 322867  
## - sdrooms:medianIncome 1 2.1782e+11 7.3412e+13 322906  
## - longitude:medianIncome 1 5.8220e+11 7.3776e+13 322978  
## - housingMedianAge:sdbedrooms 1 5.8712e+11 7.3781e+13 322979  
## - latitude:medianIncome 1 6.9426e+11 7.3888e+13 323000  
## - housingMedianAge:sdrooms 1 8.3884e+11 7.4033e+13 323028  
## - housingMedianAge:medianIncome 1 9.7822e+11 7.4172e+13 323055  
## - population:medianIncome 1 1.2399e+12 7.4434e+13 323106  
## - sdrooms:population 1 1.3525e+12 7.4547e+13 323128  
## - sdbedrooms:population 1 1.6846e+12 7.4879e+13 323192  
##   
## Step: AIC=322847.7  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms  
##   
## Df Sum of Sq RSS AIC  
## + latitude:sdbedrooms 1 2.6544e+11 7.2830e+13 322797  
## + sdbedrooms:medianIncome 1 9.8700e+10 7.2997e+13 322830  
## + latitude:population 1 8.5123e+10 7.3010e+13 322833  
## + longitude:housingMedianAge 1 6.6558e+10 7.3029e+13 322837  
## + longitude:sdbedrooms 1 6.0682e+10 7.3035e+13 322838  
## + longitude:sdrooms 1 5.8644e+10 7.3037e+13 322838  
## + longitude:population 1 4.7939e+10 7.3048e+13 322840  
## + latitude:housingMedianAge 1 1.7332e+10 7.3078e+13 322846  
## + housingMedianAge:population 1 1.3006e+10 7.3083e+13 322847  
## + sdrooms:sdbedrooms 1 1.1155e+10 7.3084e+13 322847  
## <none> 7.3096e+13 322848  
## + longitude:latitude 1 2.6953e+09 7.3093e+13 322849  
## - latitude:sdrooms 1 9.8531e+10 7.3194e+13 322865  
## - sdrooms:medianIncome 1 1.9514e+11 7.3291e+13 322884  
## - housingMedianAge:sdbedrooms 1 5.1034e+11 7.3606e+13 322946  
## - longitude:medianIncome 1 5.9814e+11 7.3694e+13 322963  
## - latitude:medianIncome 1 7.5694e+11 7.3853e+13 322995  
## - housingMedianAge:sdrooms 1 7.9450e+11 7.3890e+13 323002  
## - housingMedianAge:medianIncome 1 9.2643e+11 7.4022e+13 323028  
## - population:medianIncome 1 1.1384e+12 7.4234e+13 323069  
## - sdrooms:population 1 1.1630e+12 7.4259e+13 323074  
## - sdbedrooms:population 1 1.7765e+12 7.4872e+13 323193  
##   
## Step: AIC=322797.1  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms  
##   
## Df Sum of Sq RSS AIC  
## + sdbedrooms:medianIncome 1 1.4475e+11 7.2685e+13 322770  
## + longitude:housingMedianAge 1 8.3344e+10 7.2747e+13 322783  
## + latitude:population 1 6.8944e+10 7.2761e+13 322785  
## + longitude:population 1 3.8344e+10 7.2792e+13 322792  
## + longitude:sdrooms 1 2.6177e+10 7.2804e+13 322794  
## + longitude:sdbedrooms 1 2.4069e+10 7.2806e+13 322794  
## + latitude:housingMedianAge 1 1.1391e+10 7.2819e+13 322797  
## <none> 7.2830e+13 322797  
## + sdrooms:sdbedrooms 1 8.4285e+09 7.2822e+13 322797  
## + housingMedianAge:population 1 7.9154e+09 7.2822e+13 322798  
## + longitude:latitude 1 4.6464e+09 7.2826e+13 322798  
## - sdrooms:medianIncome 1 1.4628e+11 7.2976e+13 322824  
## - latitude:sdbedrooms 1 2.6544e+11 7.3096e+13 322848  
## - latitude:sdrooms 1 3.6250e+11 7.3193e+13 322867  
## - housingMedianAge:sdbedrooms 1 5.3302e+11 7.3363e+13 322900  
## - longitude:medianIncome 1 6.0192e+11 7.3432e+13 322914  
## - housingMedianAge:sdrooms 1 7.5250e+11 7.3583e+13 322944  
## - sdrooms:population 1 7.9044e+11 7.3621e+13 322951  
## - housingMedianAge:medianIncome 1 8.8851e+11 7.3719e+13 322970  
## - population:medianIncome 1 9.1322e+11 7.3743e+13 322975  
## - latitude:medianIncome 1 9.4617e+11 7.3776e+13 322982  
## - sdbedrooms:population 1 1.1615e+12 7.3992e+13 323024  
##   
## Step: AIC=322770.4  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome  
##   
## Df Sum of Sq RSS AIC  
## + longitude:housingMedianAge 1 8.4665e+10 7.2601e+13 322756  
## + latitude:population 1 6.5330e+10 7.2620e+13 322759  
## + longitude:population 1 3.4864e+10 7.2651e+13 322765  
## + longitude:sdrooms 1 3.3381e+10 7.2652e+13 322766  
## + longitude:sdbedrooms 1 2.1994e+10 7.2663e+13 322768  
## + sdrooms:sdbedrooms 1 2.1363e+10 7.2664e+13 322768  
## + latitude:housingMedianAge 1 1.1325e+10 7.2674e+13 322770  
## <none> 7.2685e+13 322770  
## + housingMedianAge:population 1 8.3152e+09 7.2677e+13 322771  
## + longitude:latitude 1 3.0948e+09 7.2682e+13 322772  
## - sdbedrooms:medianIncome 1 1.4475e+11 7.2830e+13 322797  
## - sdrooms:medianIncome 1 2.9101e+11 7.2976e+13 322826  
## - latitude:sdbedrooms 1 3.1149e+11 7.2997e+13 322830  
## - latitude:sdrooms 1 4.1697e+11 7.3102e+13 322851  
## - housingMedianAge:sdbedrooms 1 5.0277e+11 7.3188e+13 322868  
## - longitude:medianIncome 1 7.2090e+11 7.3406e+13 322911  
## - housingMedianAge:sdrooms 1 7.5060e+11 7.3436e+13 322917  
## - sdrooms:population 1 8.3240e+11 7.3518e+13 322933  
## - housingMedianAge:medianIncome 1 8.5299e+11 7.3538e+13 322937  
## - population:medianIncome 1 9.3027e+11 7.3616e+13 322952  
## - latitude:medianIncome 1 1.0831e+12 7.3769e+13 322982  
## - sdbedrooms:population 1 1.1831e+12 7.3869e+13 323002  
##   
## Step: AIC=322755.5  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge  
##   
## Df Sum of Sq RSS AIC  
## + latitude:housingMedianAge 1 1.4187e+12 7.1182e+13 322472  
## + latitude:population 1 1.2109e+11 7.2480e+13 322733  
## + longitude:population 1 7.9876e+10 7.2521e+13 322742  
## + longitude:sdbedrooms 1 2.6983e+10 7.2574e+13 322752  
## + longitude:sdrooms 1 2.5608e+10 7.2575e+13 322752  
## + sdrooms:sdbedrooms 1 2.4754e+10 7.2576e+13 322753  
## <none> 7.2601e+13 322756  
## + longitude:latitude 1 9.5488e+09 7.2591e+13 322756  
## + housingMedianAge:population 1 3.9151e+09 7.2597e+13 322757  
## - longitude:housingMedianAge 1 8.4665e+10 7.2685e+13 322770  
## - sdbedrooms:medianIncome 1 1.4607e+11 7.2747e+13 322783  
## - sdrooms:medianIncome 1 2.9229e+11 7.2893e+13 322812  
## - latitude:sdbedrooms 1 3.2981e+11 7.2931e+13 322819  
## - latitude:sdrooms 1 4.5220e+11 7.3053e+13 322843  
## - housingMedianAge:sdbedrooms 1 5.1357e+11 7.3114e+13 322855  
## - longitude:medianIncome 1 7.2992e+11 7.3331e+13 322898  
## - housingMedianAge:sdrooms 1 7.6707e+11 7.3368e+13 322905  
## - sdrooms:population 1 8.2806e+11 7.3429e+13 322917  
## - housingMedianAge:medianIncome 1 8.6686e+11 7.3468e+13 322925  
## - population:medianIncome 1 9.2637e+11 7.3527e+13 322937  
## - latitude:medianIncome 1 1.0900e+12 7.3691e+13 322969  
## - sdbedrooms:population 1 1.1428e+12 7.3744e+13 322979  
##   
## Step: AIC=322472.4  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge  
##   
## Df Sum of Sq RSS AIC  
## + longitude:population 1 6.5422e+10 7.1117e+13 322461  
## + latitude:population 1 5.7514e+10 7.1125e+13 322463  
## + sdrooms:sdbedrooms 1 5.0725e+10 7.1131e+13 322464  
## + longitude:sdbedrooms 1 4.4927e+10 7.1137e+13 322465  
## + longitude:sdrooms 1 1.5035e+10 7.1167e+13 322471  
## + longitude:latitude 1 1.0650e+10 7.1171e+13 322472  
## <none> 7.1182e+13 322472  
## + housingMedianAge:population 1 5.0812e+09 7.1177e+13 322473  
## - sdbedrooms:medianIncome 1 1.6011e+11 7.1342e+13 322503  
## - housingMedianAge:medianIncome 1 1.8287e+11 7.1365e+13 322507  
## - housingMedianAge:sdbedrooms 1 2.1791e+11 7.1400e+13 322515  
## - housingMedianAge:sdrooms 1 2.2014e+11 7.1402e+13 322515  
## - sdrooms:medianIncome 1 2.3393e+11 7.1416e+13 322518  
## - latitude:sdbedrooms 1 3.6234e+11 7.1544e+13 322544  
## - latitude:sdrooms 1 4.6723e+11 7.1649e+13 322565  
## - sdrooms:population 1 9.1050e+11 7.2093e+13 322654  
## - population:medianIncome 1 9.9300e+11 7.2175e+13 322671  
## - longitude:medianIncome 1 1.1409e+12 7.2323e+13 322700  
## - sdbedrooms:population 1 1.1415e+12 7.2324e+13 322700  
## - latitude:housingMedianAge 1 1.4187e+12 7.2601e+13 322756  
## - longitude:housingMedianAge 1 1.4921e+12 7.2674e+13 322770  
## - latitude:medianIncome 1 1.6105e+12 7.2793e+13 322794  
##   
## Step: AIC=322461.1  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge +   
## longitude:population  
##   
## Df Sum of Sq RSS AIC  
## + sdrooms:sdbedrooms 1 5.1971e+10 7.1065e+13 322453  
## + longitude:sdbedrooms 1 5.1169e+10 7.1065e+13 322453  
## + longitude:sdrooms 1 1.1428e+10 7.1105e+13 322461  
## <none> 7.1117e+13 322461  
## + housingMedianAge:population 1 9.7358e+09 7.1107e+13 322461  
## + longitude:latitude 1 9.0276e+09 7.1108e+13 322461  
## + latitude:population 1 7.7109e+06 7.1117e+13 322463  
## - longitude:population 1 6.5422e+10 7.1182e+13 322472  
## - sdbedrooms:medianIncome 1 1.5521e+11 7.1272e+13 322491  
## - housingMedianAge:medianIncome 1 1.8519e+11 7.1302e+13 322497  
## - housingMedianAge:sdbedrooms 1 2.1711e+11 7.1334e+13 322503  
## - housingMedianAge:sdrooms 1 2.2043e+11 7.1337e+13 322504  
## - sdrooms:medianIncome 1 2.2796e+11 7.1345e+13 322505  
## - latitude:sdbedrooms 1 3.5194e+11 7.1469e+13 322530  
## - latitude:sdrooms 1 4.7402e+11 7.1591e+13 322555  
## - sdrooms:population 1 9.0379e+11 7.2020e+13 322642  
## - population:medianIncome 1 9.8705e+11 7.2104e+13 322658  
## - longitude:medianIncome 1 1.1440e+12 7.2261e+13 322690  
## - sdbedrooms:population 1 1.1647e+12 7.2281e+13 322694  
## - latitude:housingMedianAge 1 1.4043e+12 7.2521e+13 322742  
## - longitude:housingMedianAge 1 1.5308e+12 7.2647e+13 322767  
## - latitude:medianIncome 1 1.6135e+12 7.2730e+13 322783  
##   
## Step: AIC=322452.6  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge +   
## longitude:population + sdrooms:sdbedrooms  
##   
## Df Sum of Sq RSS AIC  
## + longitude:sdrooms 1 4.4983e+10 7.1020e+13 322445  
## + longitude:sdbedrooms 1 2.1062e+10 7.1044e+13 322450  
## + housingMedianAge:population 1 1.1233e+10 7.1053e+13 322452  
## <none> 7.1065e+13 322453  
## + longitude:latitude 1 8.6146e+09 7.1056e+13 322453  
## + latitude:population 1 1.1874e+09 7.1063e+13 322454  
## - sdrooms:sdbedrooms 1 5.1971e+10 7.1117e+13 322461  
## - longitude:population 1 6.6668e+10 7.1131e+13 322464  
## - sdbedrooms:medianIncome 1 1.7812e+11 7.1243e+13 322487  
## - housingMedianAge:medianIncome 1 1.7951e+11 7.1244e+13 322487  
## - housingMedianAge:sdrooms 1 2.0890e+11 7.1274e+13 322493  
## - sdrooms:medianIncome 1 2.4247e+11 7.1307e+13 322500  
## - housingMedianAge:sdbedrooms 1 2.6574e+11 7.1330e+13 322505  
## - latitude:sdbedrooms 1 3.5018e+11 7.1415e+13 322522  
## - latitude:sdrooms 1 4.9634e+11 7.1561e+13 322551  
## - sdrooms:population 1 9.1204e+11 7.1977e+13 322635  
## - sdbedrooms:population 1 9.5018e+11 7.2015e+13 322642  
## - population:medianIncome 1 9.8105e+11 7.2046e+13 322649  
## - longitude:medianIncome 1 1.1537e+12 7.2218e+13 322683  
## - latitude:housingMedianAge 1 1.4304e+12 7.2495e+13 322738  
## - longitude:housingMedianAge 1 1.5617e+12 7.2626e+13 322765  
## - latitude:medianIncome 1 1.6305e+12 7.2695e+13 322778  
##   
## Step: AIC=322445.4  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge +   
## longitude:population + sdrooms:sdbedrooms + longitude:sdrooms  
##   
## Df Sum of Sq RSS AIC  
## + longitude:sdbedrooms 1 3.8011e+11 7.0640e+13 322370  
## <none> 7.1020e+13 322445  
## + housingMedianAge:population 1 9.3430e+09 7.1010e+13 322446  
## + longitude:latitude 1 6.2367e+09 7.1013e+13 322446  
## + latitude:population 1 1.9373e+09 7.1018e+13 322447  
## - longitude:sdrooms 1 4.4983e+10 7.1065e+13 322453  
## - longitude:population 1 5.9689e+10 7.1079e+13 322456  
## - sdrooms:sdbedrooms 1 8.5527e+10 7.1105e+13 322461  
## - housingMedianAge:medianIncome 1 1.6464e+11 7.1184e+13 322477  
## - housingMedianAge:sdrooms 1 1.7392e+11 7.1194e+13 322479  
## - sdbedrooms:medianIncome 1 1.9717e+11 7.1217e+13 322483  
## - sdrooms:medianIncome 1 2.2270e+11 7.1242e+13 322489  
## - housingMedianAge:sdbedrooms 1 2.7914e+11 7.1299e+13 322500  
## - latitude:sdbedrooms 1 2.9864e+11 7.1318e+13 322504  
## - latitude:sdrooms 1 4.6588e+11 7.1486e+13 322538  
## - sdrooms:population 1 8.3914e+11 7.1859e+13 322613  
## - population:medianIncome 1 9.4539e+11 7.1965e+13 322634  
## - sdbedrooms:population 1 9.5712e+11 7.1977e+13 322637  
## - longitude:medianIncome 1 1.1933e+12 7.2213e+13 322684  
## - latitude:housingMedianAge 1 1.4258e+12 7.2445e+13 322731  
## - longitude:housingMedianAge 1 1.5400e+12 7.2560e+13 322753  
## - latitude:medianIncome 1 1.6749e+12 7.2695e+13 322780  
##   
## Step: AIC=322369.9  
## medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge +   
## longitude:population + sdrooms:sdbedrooms + longitude:sdrooms +   
## longitude:sdbedrooms  
##   
## Df Sum of Sq RSS AIC  
## <none> 7.0640e+13 322370  
## + longitude:latitude 1 5.0730e+09 7.0634e+13 322371  
## + housingMedianAge:population 1 3.6826e+09 7.0636e+13 322371  
## + latitude:population 1 4.6732e+06 7.0640e+13 322372  
## - sdrooms:sdbedrooms 1 3.5412e+10 7.0675e+13 322375  
## - longitude:population 1 6.0416e+10 7.0700e+13 322380  
## - housingMedianAge:sdrooms 1 7.9716e+10 7.0719e+13 322384  
## - housingMedianAge:medianIncome 1 9.3788e+10 7.0733e+13 322387  
## - housingMedianAge:sdbedrooms 1 1.4614e+11 7.0786e+13 322398  
## - sdrooms:medianIncome 1 1.9259e+11 7.0832e+13 322407  
## - sdbedrooms:medianIncome 1 2.1488e+11 7.0854e+13 322412  
## - longitude:sdbedrooms 1 3.8011e+11 7.1020e+13 322445  
## - longitude:sdrooms 1 4.0403e+11 7.1044e+13 322450  
## - sdrooms:population 1 5.7671e+11 7.1216e+13 322485  
## - sdbedrooms:population 1 5.7885e+11 7.1218e+13 322486  
## - latitude:sdbedrooms 1 6.5393e+11 7.1293e+13 322501  
## - population:medianIncome 1 7.7744e+11 7.1417e+13 322526  
## - latitude:sdrooms 1 8.4170e+11 7.1481e+13 322539  
## - latitude:housingMedianAge 1 1.4518e+12 7.2091e+13 322662  
## - longitude:housingMedianAge 1 1.5494e+12 7.2189e+13 322681  
## - longitude:medianIncome 1 1.5720e+12 7.2212e+13 322686  
## - latitude:medianIncome 1 2.0347e+12 7.2674e+13 322778

##   
## Call:  
## lm(formula = medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome + sdbedrooms:population +   
## housingMedianAge:medianIncome + population:medianIncome +   
## sdrooms:population + housingMedianAge:sdrooms + housingMedianAge:sdbedrooms +   
## sdrooms:medianIncome + latitude:medianIncome + longitude:medianIncome +   
## latitude:sdrooms + latitude:sdbedrooms + sdbedrooms:medianIncome +   
## longitude:housingMedianAge + latitude:housingMedianAge +   
## longitude:population + sdrooms:sdbedrooms + longitude:sdrooms +   
## longitude:sdbedrooms, data = cahousing\_train)  
##   
## Coefficients:  
## (Intercept) longitude   
## 2.224e+06 2.668e+04   
## latitude housingMedianAge   
## 2.847e+04 -1.094e+05   
## sdrooms sdbedrooms   
## 4.685e+05 -2.377e+06   
## population medianIncome   
## -1.561e+02 -8.979e+05   
## sdbedrooms:population housingMedianAge:medianIncome   
## 5.213e+01 1.665e+02   
## population:medianIncome sdrooms:population   
## 5.638e+00 -6.770e+00   
## housingMedianAge:sdrooms housingMedianAge:sdbedrooms   
## -2.315e+02 1.672e+03   
## sdrooms:medianIncome latitude:medianIncome   
## -1.237e+03 -1.308e+04   
## longitude:medianIncome latitude:sdrooms   
## -1.166e+04 7.361e+03   
## latitude:sdbedrooms sdbedrooms:medianIncome   
## -3.599e+04 8.408e+03   
## longitude:housingMedianAge latitude:housingMedianAge   
## -1.279e+03 -1.232e+03   
## longitude:population sdrooms:sdbedrooms   
## -9.604e-01 -1.034e+02   
## longitude:sdrooms longitude:sdbedrooms   
## 6.068e+03 -3.038e+04

## n= 14447   
##   
## node), split, n, deviance, yval  
## \* denotes terminal node  
##   
## 1) root 14447 1.932788e+14 206936.60   
## 2) medianIncome< 5.59205 12331 1.102994e+14 180326.40   
## 4) medianIncome< 3.18615 6028 3.566949e+13 139890.20   
## 8) sdrooms>=4.334864 3489 1.472217e+13 120725.50   
## 16) medianIncome< 2.4143 1583 4.512035e+12 95849.28   
## 32) latitude>=35.125 1078 2.069459e+12 86835.62   
## 64) latitude< 36.835 313 1.552783e+11 65046.65   
## 128) longitude>=-120.585 306 1.153502e+11 63846.41   
## 256) sdrooms< 5.810736 276 8.340595e+10 61696.74   
## 512) housingMedianAge>=8.5 268 5.607389e+10 60983.58   
## 1024) medianIncome< 1.7584 100 6.258790e+09 54449.00 \*  
## 1025) medianIncome>=1.7584 168 4.300331e+10 64873.21   
## 2050) population>=584 157 2.898857e+10 63612.10   
## 4100) sdrooms< 5.212605 115 1.680938e+10 61394.78 \*  
## 4101) sdrooms>=5.212605 42 1.006568e+10 69683.33 \*  
## 2051) population< 584 11 1.020124e+10 82872.73 \*  
## 513) housingMedianAge< 8.5 8 2.262961e+10 85587.50 \*  
## 257) sdrooms>=5.810736 30 1.893505e+10 83623.33   
## 514) latitude< 36.225 18 8.805660e+09 74033.33 \*  
## 515) latitude>=36.225 12 5.990829e+09 98008.33 \*  
## 129) longitude< -120.585 7 2.021733e+10 117514.30 \*  
## 65) latitude>=36.835 765 1.704781e+12 95750.59   
## 130) latitude>=37.885 552 7.762547e+11 87006.70   
## 260) latitude>=39.345 235 1.098067e+11 75183.82   
## 520) housingMedianAge>=24.5 112 2.613010e+10 66853.56   
## 1040) longitude>=-123.26 84 1.439897e+10 63116.65   
## 2080) medianIncome< 1.343 8 2.210863e+09 47162.38 \*  
## 2081) medianIncome>=1.343 76 9.937449e+09 64796.05 \*  
## 1041) longitude< -123.26 28 7.039064e+09 78064.29   
## 2082) medianIncome< 1.8725 13 1.757980e+09 67500.00 \*  
## 2083) medianIncome>=1.8725 15 2.572824e+09 87220.00 \*  
## 521) housingMedianAge< 24.5 123 6.882758e+10 82769.10   
## 1042) latitude>=39.885 68 1.883017e+10 76898.53   
## 2084) medianIncome< 2.27055 53 9.650121e+09 72513.21 \*  
## 2085) medianIncome>=2.27055 15 4.559469e+09 92393.33 \*  
## 1043) latitude< 39.885 55 4.475644e+10 90027.25   
## 2086) housingMedianAge>=15.5 44 2.608259e+10 84843.16   
## 4172) population< 512.5 8 5.933348e+09 68899.88 \*  
## 4173) population>=512.5 36 1.766384e+10 88386.11   
## 8346) population>=825 23 4.242175e+09 78639.13 \*  
## 8347) population< 825 13 7.370668e+09 105630.80 \*  
## 2087) housingMedianAge< 15.5 11 1.276139e+10 110763.60 \*  
## 261) latitude< 39.345 317 6.092483e+11 95771.30   
## 522) population>=157.5 302 3.618491e+11 92749.01   
## 1044) medianIncome< 1.71355 68 2.657988e+10 71610.29   
## 2088) population>=362 55 1.036908e+10 67083.64   
## 4176) longitude>=-121.75 36 3.868150e+09 61950.00 \*  
## 4177) longitude< -121.75 19 3.754538e+09 76810.53 \*  
## 2089) population< 362 13 1.031581e+10 90761.54 \*  
## 1045) medianIncome>=1.71355 234 2.960538e+11 98891.88   
## 2090) latitude< 37.985 42 2.025594e+10 77861.90   
## 4180) longitude>=-121.285 22 5.277135e+09 66445.45 \*  
## 4181) longitude< -121.285 20 8.957312e+09 90420.00 \*  
## 2091) latitude>=37.985 192 2.531597e+11 103492.20   
## 4182) medianIncome< 2.36255 174 2.167523e+11 100628.70   
## 8364) sdbedrooms>=0.9484043 167 1.770483e+11 98964.07   
## 16728) longitude< -121.405 109 1.268020e+11 92523.85   
## 33456) longitude>=-121.65 53 1.998466e+10 77586.79   
## 66912) housingMedianAge< 42 46 1.258125e+10 73647.83   
## 133824) latitude>=39.01 12 3.586767e+08 61716.67 \*  
## 133825) latitude< 39.01 34 9.911442e+09 77858.82   
## 267650) housingMedianAge>=36.5 10 2.226290e+08 64410.00 \*  
## 267651) housingMedianAge< 36.5 24 7.126476e+09 83462.50   
## 535302) population>=1237 14 1.057809e+09 75492.86 \*  
## 535303) population< 1237 10 3.934556e+09 94620.00 \*  
## 66913) housingMedianAge>=42 7 1.999594e+09 103471.40 \*  
## 33457) longitude< -121.65 56 8.380055e+10 106660.70   
## 66914) latitude>=38.705 29 1.810921e+10 88113.79   
## 133828) longitude>=-122.69 18 5.424445e+09 76283.33 \*  
## 133829) longitude< -122.69 11 6.043042e+09 107472.70 \*  
## 66915) latitude< 38.705 27 4.500108e+10 126581.50   
## 133830) latitude< 38.275 14 3.854057e+09 102214.30 \*  
## 133831) latitude>=38.275 13 2.388230e+10 152823.10 \*  
## 16729) longitude>=-121.405 58 3.722919e+10 111067.20   
## 33458) latitude< 38.945 40 1.239722e+10 103195.00 \*  
## 33459) latitude>=38.945 18 1.684444e+10 128561.10 \*  
## 8365) sdbedrooms< 0.9484043 7 2.820074e+10 140342.90 \*  
## 4183) medianIncome>=2.36255 18 2.118936e+10 131172.20 \*  
## 523) population< 157.5 15 1.891020e+11 156620.10 \*  
## 131) latitude< 37.885 213 7.769503e+11 118410.80   
## 262) longitude>=-122.385 204 6.543603e+11 113531.40   
## 524) population>=285 185 3.729963e+11 107090.80   
## 1048) longitude>=-120.865 58 3.679202e+10 81370.69   
## 2096) sdrooms< 5.300401 43 1.452718e+10 74225.58   
## 4192) latitude< 37.305 24 3.951465e+09 65575.00 \*  
## 4193) latitude>=37.305 19 6.511127e+09 85152.63 \*  
## 2097) sdrooms>=5.300401 15 1.377650e+10 101853.30 \*  
## 1049) longitude< -120.865 127 2.803133e+11 118837.00   
## 2098) latitude>=37.275 118 1.138072e+11 111368.60   
## 4196) latitude< 37.845 108 9.783932e+10 108224.10   
## 8392) medianIncome< 2.1017 64 3.448497e+10 99370.31   
## 16784) housingMedianAge>=21.5 57 2.037982e+10 96492.98   
## 33568) latitude< 37.775 33 8.766401e+09 89775.76 \*  
## 33569) latitude>=37.775 24 8.077050e+09 105729.20 \*  
## 16785) housingMedianAge< 21.5 7 9.790600e+09 122800.00 \*  
## 8393) medianIncome>=2.1017 44 5.104013e+10 121102.30   
## 16786) medianIncome>=2.2221 26 1.873955e+10 108296.20   
## 33572) medianIncome< 2.3619 15 2.639384e+09 95480.00 \*  
## 33573) medianIncome>=2.3619 11 1.027662e+10 125772.70 \*  
## 16787) medianIncome< 2.2221 18 2.187768e+10 139600.00 \*  
## 4197) latitude>=37.845 10 3.366201e+09 145330.00 \*  
## 2099) latitude< 37.275 9 7.363210e+10 216755.60 \*  
## 525) population< 285 19 1.989699e+11 176242.10 \*  
## 263) longitude< -122.385 9 7.641189e+09 229011.10 \*  
## 33) latitude< 35.125 505 2.168034e+12 115090.30   
## 66) longitude>=-117.35 271 4.622355e+11 93259.04   
## 132) longitude>=-116.405 64 2.304780e+10 64896.88   
## 264) medianIncome< 1.44605 11 1.881969e+09 47990.91 \*  
## 265) medianIncome>=1.44605 53 1.736939e+10 68405.66   
## 530) housingMedianAge>=19.5 22 1.936088e+09 59368.18 \*  
## 531) housingMedianAge< 19.5 31 1.236123e+10 74819.35   
## 1062) sdrooms< 4.990523 12 2.415122e+09 64875.00 \*  
## 1063) sdrooms>=4.990523 19 8.009940e+09 81100.00 \*  
## 133) longitude< -116.405 207 3.717880e+11 102028.00   
## 266) latitude>=33.695 142 9.519485e+10 87167.61   
## 532) latitude>=34.055 81 2.613526e+10 79311.11   
## 1064) latitude< 34.145 52 5.842718e+09 74365.38 \*  
## 1065) latitude>=34.145 29 1.673991e+10 88179.31   
## 2130) latitude>=34.53 7 2.081417e+09 69257.14 \*  
## 2131) latitude< 34.53 22 1.135468e+10 94200.00 \*  
## 533) latitude< 34.055 61 5.742098e+10 97600.00   
## 1066) sdrooms< 6.031875 54 3.593485e+10 92955.56   
## 2132) longitude>=-116.985 28 1.080101e+10 80685.71   
## 4264) latitude>=33.85 15 2.811993e+09 69433.33 \*  
## 4265) latitude< 33.85 13 3.898348e+09 93669.23 \*  
## 2133) longitude< -116.985 26 1.637884e+10 106169.20   
## 4266) population>=1185.5 18 5.496904e+09 97855.56 \*  
## 4267) population< 1185.5 8 6.838575e+09 124875.00 \*  
## 1067) sdrooms>=6.031875 7 1.133549e+10 133428.60 \*  
## 267) latitude< 33.695 65 1.767296e+11 134492.30   
## 534) latitude< 32.725 22 1.556329e+10 99968.18   
## 1068) medianIncome< 2.09485 14 1.583234e+09 82742.86 \*  
## 1069) medianIncome>=2.09485 8 2.556649e+09 130112.50 \*  
## 535) latitude>=32.725 43 1.215282e+11 152155.80   
## 1070) housingMedianAge< 35.5 33 5.586016e+10 138545.50   
## 2140) population>=1325 11 4.819067e+09 117445.50 \*  
## 2141) population< 1325 22 4.369513e+10 149095.50   
## 4282) sdbedrooms< 1.131985 14 1.260714e+10 136750.00 \*  
## 4283) sdbedrooms>=1.131985 8 2.522020e+10 170700.00 \*  
## 1071) housingMedianAge>=35.5 10 3.938220e+10 197070.00 \*  
## 67) longitude< -117.35 234 1.427056e+12 140373.50   
## 134) latitude>=33.735 221 7.628909e+11 132137.60   
## 268) population>=250 210 4.369595e+11 126164.80   
## 536) longitude>=-118.315 161 1.371308e+11 113262.70   
## 1072) latitude>=33.855 152 9.339405e+10 109873.70   
## 2144) medianIncome< 2.0665 91 3.660072e+10 103186.80   
## 4288) housingMedianAge< 22.5 9 3.738816e+09 82577.78 \*  
## 4289) housingMedianAge>=22.5 82 2.861976e+10 105448.80   
## 8578) latitude< 33.995 61 9.643141e+09 100936.10 \*  
## 8579) latitude>=33.995 21 1.412597e+10 118557.10 \*  
## 2145) medianIncome>=2.0665 61 4.665419e+10 119849.20   
## 4290) sdrooms>=4.93329 15 1.169392e+10 101686.70 \*  
## 4291) sdrooms< 4.93329 46 2.839859e+10 125771.70   
## 8582) population< 1435.5 28 1.145489e+10 118403.60   
## 17164) sdbedrooms< 1.129684 20 6.045266e+09 112715.00   
## 34328) longitude< -118.205 11 1.101287e+09 103745.50 \*  
## 34329) longitude>=-118.205 9 2.977356e+09 123677.80 \*  
## 17165) sdbedrooms>=1.129684 8 3.144435e+09 132625.00 \*  
## 8583) population>=1435.5 18 1.305896e+10 137233.30 \*  
## 1073) latitude< 33.855 9 1.250596e+10 170500.00 \*  
## 537) longitude< -118.315 49 1.849697e+11 168557.10   
## 1074) population>=529.5 41 8.515913e+10 153065.90   
## 2148) sdbedrooms< 1.144059 28 2.477776e+10 143507.10   
## 4296) latitude< 34.035 13 4.834949e+09 127807.70 \*  
## 4297) latitude>=34.035 15 1.396174e+10 157113.30 \*  
## 2149) sdbedrooms>=1.144059 13 5.231279e+10 173653.80 \*  
## 1075) population< 529.5 8 3.954554e+10 247950.00 \*  
## 269) population< 250 11 1.754182e+11 246163.70 \*  
## 135) latitude< 33.735 13 3.943334e+11 280384.80 \*  
## 17) medianIncome>=2.4143 1906 8.416937e+12 141386.10   
## 34) latitude>=34.455 1180 4.233628e+12 127940.60   
## 68) longitude>=-121.695 725 1.208565e+12 109459.30   
## 136) longitude>=-120.135 257 1.952718e+11 89473.15   
## 272) latitude< 37.045 218 1.238414e+11 84257.34   
## 544) latitude>=34.865 191 8.393479e+10 80643.46   
## 1088) sdrooms< 5.486842 106 2.087601e+10 75573.58   
## 2176) housingMedianAge>=19.5 73 1.177738e+10 72243.84   
## 4352) population>=542.5 65 5.865890e+09 70212.31 \*  
## 4353) population< 542.5 8 3.463600e+09 88750.00 \*  
## 2177) housingMedianAge< 19.5 33 6.498839e+09 82939.39 \*  
## 1089) sdrooms>=5.486842 85 5.693649e+10 86965.88   
## 2178) longitude>=-117.965 7 3.472394e+09 63528.57 \*  
## 2179) longitude< -117.965 78 4.927387e+10 89069.23   
## 4358) sdrooms< 6.475843 68 3.331879e+10 85895.59   
## 8716) sdbedrooms>=1.011282 56 2.232829e+10 83137.50   
## 17432) medianIncome< 2.71205 22 6.475888e+09 75468.18 \*  
## 17433) medianIncome>=2.71205 34 1.372110e+10 88100.00   
## 34866) population< 914.5 17 3.018659e+09 77464.71 \*  
## 34867) population>=914.5 17 6.856719e+09 98735.29 \*  
## 8717) sdbedrooms< 1.011282 12 8.576527e+09 98766.67 \*  
## 4359) sdrooms>=6.475843 10 1.061288e+10 110650.00 \*  
## 545) latitude< 34.865 27 1.976589e+10 109822.20   
## 1090) sdrooms< 5.774926 20 7.474010e+09 102995.00 \*  
## 1091) sdrooms>=5.774926 7 8.696174e+09 129328.60 \*  
## 273) latitude>=37.045 39 3.234912e+10 118628.20   
## 546) sdbedrooms< 1.913888 28 9.488449e+09 109242.90 \*  
## 547) sdbedrooms>=1.913888 11 1.411626e+10 142518.20 \*  
## 137) longitude< -120.135 468 8.542612e+11 120434.60   
## 274) latitude>=35.54 428 5.664413e+11 114634.10   
## 548) latitude>=39.315 40 2.328571e+10 88462.50   
## 1096) latitude>=40.2 11 1.137069e+09 67409.09 \*  
## 1097) latitude< 40.2 29 1.542353e+10 96448.28   
## 2194) latitude< 39.53 11 2.121376e+09 79981.82 \*  
## 2195) latitude>=39.53 18 8.496878e+09 106511.10 \*  
## 549) latitude< 39.315 388 5.129329e+11 117332.20   
## 1098) population>=207 372 4.342870e+11 115610.80   
## 2196) housingMedianAge>=25.5 176 1.930337e+11 108235.80   
## 4392) latitude>=36.87 161 1.416725e+11 104762.70   
## 8784) sdrooms< 6.162755 151 1.114940e+11 102058.90   
## 17568) medianIncome< 2.5918 43 2.030846e+10 91004.65   
## 35136) medianIncome>=2.55025 10 1.584880e+09 77300.00 \*  
## 35137) medianIncome< 2.55025 33 1.627626e+10 95157.58   
## 70274) sdrooms< 4.822692 9 3.996442e+09 82055.56 \*  
## 70275) sdrooms>=4.822692 24 1.015549e+10 100070.80   
## 140550) sdbedrooms< 1.090419 15 5.829696e+09 91840.00 \*  
## 140551) sdbedrooms>=1.090419 9 1.615929e+09 113788.90 \*  
## 17569) medianIncome>=2.5918 108 8.383902e+10 106460.20   
## 35138) population>=481 93 5.656604e+10 103168.80   
## 70276) housingMedianAge< 43.5 82 4.694211e+10 100915.90   
## 140552) housingMedianAge>=28.5 71 3.605053e+10 98056.34   
## 281104) population< 1172 48 2.326723e+10 93775.00   
## 562208) population>=913 16 1.783009e+09 82706.25 \*  
## 562209) population< 913 32 1.854381e+10 99309.38   
## 1124418) medianIncome< 2.9315 21 9.813130e+09 92395.24 \*  
## 1124419) medianIncome>=2.9315 11 5.810209e+09 112509.10 \*  
## 281105) population>=1172 23 1.006730e+10 106991.30 \*  
## 140553) housingMedianAge< 28.5 11 6.563802e+09 119372.70 \*  
## 70277) housingMedianAge>=43.5 11 6.104985e+09 119963.60 \*  
## 35139) population< 481 15 2.001913e+10 126866.70 \*  
## 8785) sdrooms>=6.162755 10 1.240589e+10 145590.00 \*  
## 4393) latitude< 36.87 15 2.857506e+10 145513.30 \*  
## 2197) housingMedianAge< 25.5 196 2.230848e+11 122233.20   
## 4394) sdrooms< 5.479478 117 1.159903e+11 115313.70   
## 8788) longitude>=-121.035 45 2.586313e+10 102537.80   
## 17576) latitude< 37.745 33 1.630864e+10 96648.48   
## 35152) medianIncome< 2.98915 24 8.443506e+09 89787.50   
## 70304) longitude>=-120.745 9 2.132020e+09 74966.67 \*  
## 70305) longitude< -120.745 15 3.148424e+09 98680.00 \*  
## 35153) medianIncome>=2.98915 9 3.722702e+09 114944.40 \*  
## 17577) latitude>=37.745 12 5.262367e+09 118733.30 \*  
## 8789) longitude< -121.035 72 7.819145e+10 123298.60   
## 17578) latitude>=37.995 63 5.360044e+10 119596.80   
## 35156) longitude< -121.405 10 9.330881e+09 94030.00 \*  
## 35157) longitude>=-121.405 53 3.649961e+10 124420.80   
## 70314) latitude< 38.555 13 1.646951e+09 106361.50 \*  
## 70315) latitude>=38.555 40 2.923498e+10 130290.00   
## 140630) latitude>=38.655 24 1.169832e+10 123300.00   
## 281260) longitude< -121.27 13 2.185043e+09 107876.90 \*  
## 281261) longitude>=-121.27 11 2.766382e+09 141527.30 \*  
## 140631) latitude< 38.655 16 1.460505e+10 140775.00 \*  
## 17579) latitude< 37.995 9 1.768459e+10 149211.10 \*  
## 4395) sdrooms>=5.479478 79 9.319616e+10 132481.00   
## 8790) sdrooms>=5.520152 72 5.603292e+10 128622.20   
## 17580) housingMedianAge>=11.5 61 3.492413e+10 124642.60   
## 35160) longitude>=-120.605 22 8.856846e+09 113613.60 \*  
## 35161) longitude< -120.605 39 2.188167e+10 130864.10   
## 70322) longitude< -121.36 8 5.857380e+09 112200.00 \*  
## 70323) longitude>=-121.36 31 1.251833e+10 135680.60 \*  
## 17581) housingMedianAge< 11.5 11 1.478543e+10 150690.90 \*  
## 8791) sdrooms< 5.520152 7 2.506383e+10 172171.40 \*  
## 1099) population< 207 16 5.191270e+10 157356.20 \*  
## 275) latitude< 35.54 40 1.193350e+11 182500.00   
## 550) latitude< 35.125 22 4.982029e+10 153254.50   
## 1100) sdrooms< 5.196128 13 8.791157e+09 135184.60 \*  
## 1101) sdrooms>=5.196128 9 3.065298e+10 179355.60 \*  
## 551) latitude>=35.125 18 2.770022e+10 218244.40 \*  
## 69) longitude< -121.695 455 2.382860e+12 157388.80   
## 138) latitude>=37.905 274 6.002546e+11 126767.90   
## 276) latitude>=38.675 129 1.273752e+11 102456.60   
## 552) latitude>=39.485 80 3.380808e+10 93482.50   
## 1104) population< 2191 73 2.609483e+10 90635.62   
## 2208) latitude< 40.505 24 7.184206e+09 80712.50   
## 4416) sdbedrooms>=1.126515 8 1.095480e+09 65050.00 \*  
## 4417) sdbedrooms< 1.126515 16 3.144959e+09 88543.75 \*  
## 2209) latitude>=40.505 49 1.538988e+10 95495.92   
## 4418) medianIncome< 2.76415 27 4.309261e+09 89281.48 \*  
## 4419) medianIncome>=2.76415 22 8.758199e+09 103122.70 \*  
## 1105) population>=2191 7 9.515743e+08 123171.40 \*  
## 553) latitude< 39.485 49 7.660564e+10 117108.20   
## 1106) longitude>=-122.935 28 1.342136e+10 95832.14   
## 2212) latitude>=39.11 9 1.553556e+09 78677.78 \*  
## 2213) latitude< 39.11 19 7.964826e+09 103957.90 \*  
## 1107) longitude< -122.935 21 3.360990e+10 145476.20   
## 2214) medianIncome< 2.78035 10 4.204381e+09 121330.00 \*  
## 2215) medianIncome>=2.78035 11 1.827478e+10 167427.30 \*  
## 277) latitude< 38.675 145 3.288044e+11 148396.60   
## 554) longitude>=-122.38 95 1.289665e+11 130787.40   
## 1108) housingMedianAge>=26.5 71 6.430554e+10 121947.90   
## 2216) sdrooms< 4.706899 12 1.056784e+10 101700.00 \*  
## 2217) sdrooms>=4.706899 59 4.781735e+10 126066.10   
## 4434) population>=954 33 1.582411e+10 116781.80   
## 8868) latitude< 38.26 26 9.117170e+09 112496.20 \*  
## 8869) latitude>=38.26 7 4.455680e+09 132700.00 \*  
## 4435) population< 954 26 2.553834e+10 137850.00   
## 8870) sdrooms>=5.32763 13 7.172217e+09 121015.40 \*  
## 8871) sdrooms< 5.32763 13 1.099762e+10 154684.60 \*  
## 1109) housingMedianAge< 26.5 24 4.270142e+10 156937.50   
## 2218) population>=1927.5 14 1.117778e+10 138450.00 \*  
## 2219) population< 1927.5 10 2.003958e+10 182820.00 \*  
## 555) longitude< -122.38 50 1.144099e+11 181854.00   
## 1110) longitude< -122.675 34 4.086502e+10 169323.50   
## 2220) population>=1384 11 1.841262e+09 148372.70 \*  
## 2221) population< 1384 23 3.188628e+10 179343.50   
## 4442) sdbedrooms>=1.041241 15 1.153220e+10 165086.70 \*  
## 4443) sdbedrooms< 1.041241 8 1.158864e+10 206075.00 \*  
## 1111) longitude>=-122.675 16 5.686230e+10 208481.20 \*  
## 139) latitude< 37.905 181 1.136773e+12 203743.10   
## 278) longitude>=-122.405 160 8.385484e+11 193220.00   
## 556) longitude< -121.995 111 5.109569e+11 175284.70   
## 1112) latitude< 37.875 103 3.691867e+11 168547.60   
## 2224) longitude>=-122.23 69 1.374758e+11 152888.40   
## 4448) latitude>=37.735 32 3.325063e+10 126690.60   
## 8896) latitude< 37.785 18 6.405060e+09 111000.00 \*  
## 8897) latitude>=37.785 14 1.671637e+10 146864.30 \*  
## 4449) latitude< 37.735 37 6.326837e+10 175545.90   
## 8898) population>=786 22 3.618934e+10 163227.30   
## 17796) sdbedrooms< 1.055569 10 1.265390e+10 145400.00 \*  
## 17797) sdbedrooms>=1.055569 12 1.770890e+10 178083.30 \*  
## 8899) population< 786 15 1.884408e+10 193613.30 \*  
## 2225) longitude< -122.23 34 1.804549e+11 200326.50   
## 4450) population< 1584.5 27 5.387818e+10 178466.70   
## 8900) latitude>=37.79 14 3.022742e+10 153314.30 \*  
## 8901) latitude< 37.79 13 5.255472e+09 205553.80 \*  
## 4451) population>=1584.5 7 6.390994e+10 284642.90 \*  
## 1113) latitude>=37.875 8 7.690414e+10 262025.00 \*  
## 557) longitude>=-121.995 49 2.110005e+11 233849.00   
## 1114) longitude>=-121.815 11 3.586227e+09 176145.50 \*  
## 1115) longitude< -121.815 38 1.601851e+11 250552.60   
## 2230) sdbedrooms< 1.174384 31 1.098693e+11 236577.40   
## 4460) sdbedrooms>=1.10394 12 3.281676e+10 208525.00 \*  
## 4461) sdbedrooms< 1.10394 19 6.164511e+10 254294.70 \*  
## 2231) sdbedrooms>=1.174384 7 1.744854e+10 312442.90 \*  
## 279) longitude< -122.405 21 1.455149e+11 283919.10   
## 558) latitude< 37.77 14 3.718005e+10 241028.60 \*  
## 559) latitude>=37.77 7 3.107182e+10 369700.10 \*  
## 35) latitude< 34.455 726 3.623265e+12 163239.70   
## 70) longitude>=-118.305 608 1.931518e+12 149702.00   
## 140) longitude>=-117.775 363 9.103900e+11 132861.20   
## 280) latitude>=33.205 232 3.865556e+11 117760.30   
## 560) medianIncome< 2.9311 144 1.202331e+11 107572.90   
## 1120) longitude>=-117.58 118 7.286171e+10 102758.50   
## 2240) longitude>=-116.4 11 1.752840e+09 77300.00 \*  
## 2241) longitude< -116.4 107 6.324646e+10 105375.70   
## 4482) latitude>=33.9 72 2.452630e+10 97887.50   
## 8964) housingMedianAge>=34.5 15 5.881876e+09 84240.00 \*  
## 8965) housingMedianAge< 34.5 57 1.511539e+10 101478.90   
## 17930) longitude>=-116.93 8 8.038288e+08 84112.50 \*  
## 17931) longitude< -116.93 49 1.150490e+10 104314.30   
## 35862) sdbedrooms< 1.058763 12 1.971709e+09 92408.33 \*  
## 35863) sdbedrooms>=1.058763 37 7.280488e+09 108175.70 \*  
## 4483) latitude< 33.9 35 2.637766e+10 120780.00   
## 8966) sdrooms< 5.668539 20 8.973810e+09 106050.00   
## 17932) housingMedianAge>=19 9 1.188360e+09 94000.00 \*  
## 17933) housingMedianAge< 19 11 5.409409e+09 115909.10 \*  
## 8967) sdrooms>=5.668539 15 7.278444e+09 140420.00 \*  
## 1121) longitude< -117.58 26 3.222311e+10 129423.10   
## 2242) sdbedrooms>=1.043128 18 1.291293e+10 119783.30 \*  
## 2243) sdbedrooms< 1.043128 8 1.387409e+10 151112.50 \*  
## 561) medianIncome>=2.9311 88 2.269224e+11 134430.70   
## 1122) sdbedrooms< 1.319976 79 1.021970e+11 127075.90   
## 2244) longitude>=-117.665 66 4.441169e+10 119474.20   
## 4488) sdrooms< 5.820835 54 2.374182e+10 114107.40   
## 8976) sdrooms>=5.54952 12 2.592322e+09 99025.00 \*  
## 8977) sdrooms< 5.54952 42 1.763982e+10 118416.70   
## 17954) sdrooms< 5.145951 23 7.165298e+09 109791.30 \*  
## 17955) sdrooms>=5.145951 19 6.692026e+09 128857.90 \*  
## 4489) sdrooms>=5.820835 12 1.211540e+10 143625.00 \*  
## 2245) longitude< -117.665 13 3.460875e+10 165669.20 \*  
## 1123) sdbedrooms>=1.319976 9 8.294227e+10 198988.90 \*  
## 281) latitude< 33.205 131 3.772378e+11 159604.60   
## 562) longitude>=-117.145 101 1.670499e+11 144325.70   
## 1124) longitude>=-116.59 11 4.326609e+09 86409.09 \*  
## 1125) longitude< -116.59 90 1.213159e+11 151404.40   
## 2250) medianIncome< 3.075 67 7.443855e+10 145247.80   
## 4500) longitude>=-117.115 57 5.083176e+10 140361.40   
## 9000) latitude< 32.745 25 8.011266e+09 128076.00   
## 18000) medianIncome>=2.79635 13 2.220743e+09 119476.90 \*  
## 18001) medianIncome< 2.79635 12 3.787869e+09 137391.70 \*  
## 9001) latitude>=32.745 32 3.609934e+10 149959.40   
## 18002) medianIncome< 2.6479 10 1.155991e+10 127610.00 \*  
## 18003) medianIncome>=2.6479 22 1.727405e+10 160118.20   
## 36006) longitude< -117.025 11 3.010962e+09 147327.30 \*  
## 36007) longitude>=-117.025 11 1.066373e+10 172909.10 \*  
## 4501) longitude< -117.115 10 1.448836e+10 173100.00 \*  
## 2251) medianIncome>=3.075 23 3.693967e+10 169339.10   
## 4502) sdrooms< 5.639401 15 6.935973e+09 154266.70 \*  
## 4503) sdrooms>=5.639401 8 2.020660e+10 197600.00 \*  
## 563) longitude< -117.145 30 1.072318e+11 211043.30   
## 1126) housingMedianAge< 35 22 2.764797e+10 187045.50   
## 2252) longitude< -117.255 7 5.115389e+09 159514.30 \*  
## 2253) longitude>=-117.255 15 1.475081e+10 199893.30 \*  
## 1127) housingMedianAge>=35 8 3.207218e+10 277037.50 \*  
## 141) longitude< -117.775 245 7.656399e+11 174653.90   
## 282) longitude< -118.155 103 2.923407e+11 147844.70   
## 564) latitude< 34.095 92 1.451549e+11 137927.20   
## 1128) latitude>=33.875 79 5.854050e+10 128775.90   
## 2256) longitude< -118.225 40 1.722650e+10 113605.00 \*  
## 2257) longitude>=-118.225 39 2.266533e+10 144335.90   
## 4514) latitude< 33.915 13 8.749971e+09 129561.50 \*  
## 4515) latitude>=33.915 26 9.658866e+09 151723.10 \*  
## 1129) latitude< 33.875 13 3.979457e+10 193538.50 \*  
## 565) latitude>=34.095 11 6.245611e+10 230790.90 \*  
## 283) longitude>=-118.155 142 3.455720e+11 194100.00   
## 566) latitude>=33.745 135 1.735189e+11 188961.50   
## 1132) longitude>=-118.115 103 1.238821e+11 181680.60   
## 2264) longitude< -117.875 94 7.933844e+10 178425.50   
## 4528) population>=1519 36 2.079316e+10 167566.70   
## 9056) latitude>=33.88 26 1.267256e+10 159838.50   
## 18112) longitude>=-118.075 19 4.140609e+09 152194.70 \*  
## 18113) longitude< -118.075 7 4.408709e+09 180585.70 \*  
## 9057) latitude< 33.88 10 2.530324e+09 187660.00 \*  
## 4529) population< 1519 58 5.166555e+10 185165.50   
## 9058) latitude< 34.075 42 2.730081e+10 178369.00   
## 18116) housingMedianAge>=25 34 1.440506e+10 172355.90   
## 36232) latitude>=33.895 25 9.937546e+09 168376.00   
## 72464) population>=897.5 16 1.337364e+09 159581.20 \*  
## 72465) population< 897.5 9 5.162509e+09 184011.10 \*  
## 36233) latitude< 33.895 9 2.971569e+09 183411.10 \*  
## 18117) housingMedianAge< 25 8 6.441515e+09 203925.00 \*  
## 9059) latitude>=34.075 16 1.733201e+10 203006.20 \*  
## 2265) longitude>=-117.875 9 3.314546e+10 215677.80 \*  
## 1133) longitude< -118.115 32 2.660161e+10 212396.90   
## 2266) sdrooms< 4.804861 18 9.477723e+09 201361.10 \*  
## 2267) sdrooms>=4.804861 14 1.211318e+10 226585.70 \*  
## 567) latitude< 33.745 7 9.974267e+10 293200.10 \*  
## 71) longitude< -118.305 118 1.006183e+12 232993.20   
## 142) population>=439 109 7.742898e+11 223667.90   
## 284) longitude>=-118.355 39 1.594651e+11 191089.70   
## 568) latitude< 34.045 28 4.817561e+10 164242.90   
## 1136) sdrooms>=4.578045 21 2.485140e+10 152023.80   
## 2272) longitude>=-118.315 7 9.649086e+08 124614.30 \*  
## 2273) longitude< -118.315 14 1.599803e+10 165728.60 \*  
## 1137) sdrooms< 4.578045 7 1.078258e+10 200900.00 \*  
## 569) latitude>=34.045 11 3.973814e+10 259427.30 \*  
## 285) longitude< -118.355 70 5.503713e+11 241818.60   
## 570) latitude>=34.165 50 2.175111e+11 211330.00   
## 1140) longitude>=-119.41 42 7.983624e+10 194154.80   
## 2280) sdrooms< 4.585097 16 2.685878e+10 175200.00 \*  
## 2281) sdrooms>=4.585097 26 4.369138e+10 205819.20   
## 4562) latitude>=34.305 10 1.291349e+10 187810.00 \*  
## 4563) latitude< 34.305 16 2.550749e+10 217075.00 \*  
## 1141) longitude< -119.41 8 6.024010e+10 301500.10 \*  
## 571) latitude< 34.165 20 1.701883e+11 318040.00   
## 1142) longitude>=-118.375 10 3.999014e+10 251800.00 \*  
## 1143) longitude< -118.375 10 4.244329e+10 384280.10 \*  
## 143) population< 439 9 1.076147e+11 345933.40 \*  
## 9) sdrooms< 4.334864 2539 1.790493e+13 166225.70   
## 18) medianIncome< 2.21365 1273 7.674211e+12 139234.70   
## 36) sdrooms>=3.323694 896 3.123300e+12 119943.00   
## 72) medianIncome< 1.8329 475 1.666909e+12 106173.70   
## 144) longitude>=-121.65 404 1.034858e+12 99996.78   
## 288) latitude>=35.305 153 1.715476e+11 73301.31   
## 576) longitude>=-120.665 78 8.759569e+09 55674.36 \*  
## 577) longitude< -120.665 75 1.133480e+11 91633.33   
## 1154) housingMedianAge>=24 58 4.352294e+10 84451.72   
## 2308) sdbedrooms< 1.060698 28 1.081812e+10 72682.14   
## 4616) population>=881.5 17 2.213341e+09 64941.18 \*  
## 4617) population< 881.5 11 6.011767e+09 84645.45 \*  
## 2309) sdbedrooms>=1.060698 30 2.520611e+10 95436.67   
## 4618) sdrooms>=3.86533 15 7.385633e+09 84266.67 \*  
## 4619) sdrooms< 3.86533 15 1.407741e+10 106606.70 \*  
## 1155) housingMedianAge< 24 17 5.662776e+10 116135.30 \*  
## 289) latitude< 35.305 251 6.878115e+11 116269.30   
## 578) longitude>=-118.305 221 4.006762e+11 109176.90   
## 1156) longitude>=-117.355 78 8.634265e+10 92657.69   
## 2312) latitude>=32.785 34 2.254852e+10 78158.82   
## 4624) housingMedianAge>=20.5 23 4.492913e+09 70217.39 \*  
## 4625) housingMedianAge< 20.5 11 1.357217e+10 94763.64 \*  
## 2313) latitude< 32.785 44 5.112376e+10 103861.40   
## 4626) latitude< 32.715 28 7.659521e+09 88032.14 \*  
## 4627) latitude>=32.715 16 2.417080e+10 131562.50 \*  
## 1157) longitude< -117.355 143 2.814385e+11 118187.40   
## 2314) latitude>=33.755 135 1.501545e+11 112725.20   
## 4628) latitude< 34.025 112 6.094842e+10 106750.90   
## 9256) longitude< -118.215 90 1.000908e+10 100418.90 \*  
## 9257) longitude>=-118.215 22 3.256887e+10 132654.50   
## 18514) housingMedianAge< 28.5 9 2.318560e+10 114566.70 \*  
## 18515) housingMedianAge>=28.5 13 4.400203e+09 145176.90 \*  
## 4629) latitude>=34.025 23 6.574239e+10 141817.40   
## 9258) longitude>=-118.145 7 2.002257e+09 100742.90 \*  
## 9259) longitude< -118.145 16 4.676352e+10 159787.50 \*  
## 2315) latitude< 33.755 8 5.928618e+10 210362.50 \*  
## 579) longitude< -118.305 30 1.941250e+11 168516.70   
## 1158) medianIncome>=1.62615 18 3.875058e+10 135261.10 \*  
## 1159) medianIncome< 1.62615 12 1.056074e+11 218400.00 \*  
## 145) longitude< -121.65 71 5.289276e+11 141321.10   
## 290) latitude>=37.735 64 3.511423e+11 129890.60   
## 580) latitude>=38.615 16 6.648234e+09 80268.75 \*  
## 581) latitude< 38.615 48 2.919644e+11 146431.20   
## 1162) longitude>=-122.435 38 1.298248e+11 127052.60   
## 2324) sdrooms>=3.53476 29 3.697817e+10 113913.80   
## 4648) population>=873.5 18 1.745844e+10 100988.90 \*  
## 4649) population< 873.5 11 1.159231e+10 135063.60 \*  
## 2325) sdrooms< 3.53476 9 7.170919e+10 169388.90 \*  
## 1163) longitude< -122.435 10 9.364272e+10 220070.00 \*  
## 291) latitude< 37.735 7 9.297061e+10 245828.60 \*  
## 73) medianIncome>=1.8329 421 1.264726e+12 135478.40   
## 146) housingMedianAge< 51.5 391 1.073220e+12 132346.00   
## 292) latitude>=34.54 129 3.416726e+11 114237.20   
## 584) longitude>=-121.64 81 1.280725e+11 93586.42   
## 1168) longitude>=-120.06 22 8.659104e+09 66572.73   
## 2336) population>=1334.5 10 2.877410e+08 54730.00 \*  
## 2337) population< 1334.5 12 5.800109e+09 76441.67 \*  
## 1169) longitude< -120.06 59 9.737282e+10 103659.30   
## 2338) latitude>=35.38 49 4.161786e+10 96379.59   
## 4676) longitude>=-121.31 24 1.428582e+10 85754.17   
## 9352) sdrooms< 4.026855 8 2.269740e+09 70150.00 \*  
## 9353) sdrooms>=4.026855 16 9.094199e+09 93556.25 \*  
## 4677) longitude< -121.31 25 2.202124e+10 106580.00   
## 9354) population< 1026.5 12 1.158316e+10 94525.00 \*  
## 9355) population>=1026.5 13 7.084469e+09 117707.70 \*  
## 2339) latitude< 35.38 10 4.043426e+10 139330.00 \*  
## 585) longitude< -121.64 48 1.207661e+11 149085.40   
## 1170) latitude>=37.68 37 5.281155e+10 135702.70   
## 2340) sdbedrooms< 1.033456 9 2.039729e+09 100711.10 \*  
## 2341) sdbedrooms>=1.033456 28 3.621007e+10 146950.00   
## 4682) population>=1218.5 11 1.041643e+10 127954.50 \*  
## 4683) population< 1218.5 17 1.925630e+10 159241.20 \*  
## 1171) latitude< 37.68 11 3.903856e+10 194100.00 \*  
## 293) latitude< 34.54 262 6.684158e+11 141262.20   
## 586) longitude>=-118.46 255 4.372991e+11 137114.90   
## 1172) longitude>=-117.81 93 1.100817e+11 116522.60   
## 2344) latitude>=33.455 23 9.078273e+09 89517.39   
## 4688) longitude>=-117.42 14 2.092884e+09 76278.57 \*  
## 4689) longitude< -117.42 9 7.147489e+08 110111.10 \*  
## 2345) latitude< 33.455 70 7.871873e+10 125395.70   
## 4690) longitude>=-117.135 54 3.187319e+10 114429.60   
## 9380) housingMedianAge>=20 36 2.295981e+10 107697.20   
## 18760) latitude>=32.655 29 1.504393e+10 101937.90   
## 37520) sdrooms>=3.734786 17 7.568580e+09 94600.00 \*  
## 37521) sdrooms< 3.734786 12 5.263207e+09 112333.30 \*  
## 18761) latitude< 32.655 7 2.968897e+09 131557.10 \*  
## 9381) housingMedianAge< 20 18 4.018249e+09 127894.40 \*  
## 4691) longitude< -117.135 16 1.843529e+10 162406.20 \*  
## 1173) longitude< -117.81 162 2.651421e+11 148936.40   
## 2346) latitude< 34.035 114 1.603088e+11 140188.60   
## 4692) latitude>=33.885 88 9.120511e+10 131169.30   
## 9384) longitude< -118.22 57 4.493240e+10 118931.60   
## 18768) longitude>=-118.325 47 1.689843e+10 111272.30   
## 37536) latitude< 34.015 40 5.512368e+09 106092.50 \*  
## 37537) latitude>=34.015 7 4.180094e+09 140871.40 \*  
## 18769) longitude< -118.325 10 1.231790e+10 154930.00 \*  
## 9385) longitude>=-118.22 31 2.204020e+10 153671.00   
## 18770) sdrooms>=3.691971 15 1.118574e+10 139920.00 \*  
## 18771) sdrooms< 3.691971 16 5.359058e+09 166562.50 \*  
## 4693) latitude< 33.885 26 3.771607e+10 170715.40   
## 9386) longitude>=-118.265 19 1.298451e+10 155205.30 \*  
## 9387) longitude< -118.265 7 7.754629e+09 212814.30 \*  
## 2347) latitude>=34.035 48 7.539055e+10 169712.50   
## 4694) longitude>=-118.235 25 1.409087e+10 151716.00   
## 9388) longitude< -118.175 18 3.760963e+09 141461.10 \*  
## 9389) longitude>=-118.175 7 3.569449e+09 178085.70 \*  
## 4695) longitude< -118.235 23 4.440190e+10 189273.90   
## 9390) longitude< -118.345 8 2.427664e+10 168462.50 \*  
## 9391) longitude>=-118.345 15 1.481239e+10 200373.30 \*  
## 587) longitude< -118.46 7 6.695287e+10 292343.00 \*  
## 147) housingMedianAge>=51.5 30 1.376690e+11 176303.30   
## 294) sdrooms>=3.799346 23 8.321833e+10 159013.00   
## 588) population< 843 8 7.568999e+09 126437.50 \*  
## 589) population>=843 15 6.263236e+10 176386.70 \*  
## 295) sdrooms< 3.799346 7 2.498233e+10 233114.30 \*  
## 37) sdrooms< 3.323694 377 3.424910e+12 185084.60   
## 74) latitude< 34.045 142 5.430069e+11 149253.50   
## 148) longitude>=-117.145 23 2.534423e+10 104582.60   
## 296) latitude>=32.755 8 1.173100e+10 81525.00 \*  
## 297) latitude< 32.755 15 7.091624e+09 116880.00 \*  
## 149) longitude< -117.145 119 4.628956e+11 157887.40   
## 298) housingMedianAge>=29.5 79 1.057135e+11 141697.50   
## 596) sdbedrooms< 1.043833 41 3.154269e+10 130865.90   
## 1192) longitude< -118.215 22 6.870733e+09 117618.20   
## 2384) medianIncome< 1.91635 13 2.289457e+09 109015.40 \*  
## 2385) medianIncome>=1.91635 9 2.229462e+09 130044.40 \*  
## 1193) longitude>=-118.215 19 1.634029e+10 146205.30 \*  
## 597) sdbedrooms>=1.043833 38 6.417051e+10 153384.20   
## 1194) population>=1635.5 15 9.075369e+09 136893.30 \*  
## 1195) population< 1635.5 23 4.835553e+10 164139.10   
## 2390) sdbedrooms>=1.118952 14 9.202989e+09 146028.60 \*  
## 2391) sdbedrooms< 1.118952 9 2.741771e+10 192311.10 \*  
## 299) housingMedianAge< 29.5 40 2.955788e+11 189862.50   
## 598) latitude< 34.015 30 9.720783e+10 171080.00   
## 1196) latitude>=33.715 22 2.938354e+10 149750.00   
## 2392) population< 1884.5 13 1.498934e+10 139623.10 \*  
## 2393) population>=1884.5 9 1.113524e+10 164377.80 \*  
## 1197) latitude< 33.715 8 3.028936e+10 229737.50 \*  
## 599) latitude>=34.015 10 1.560370e+11 246210.10 \*  
## 75) latitude>=34.045 235 2.589433e+12 206735.80   
## 150) latitude>=37.91 26 5.092232e+10 106234.60   
## 300) medianIncome< 1.37325 18 2.657488e+10 95488.89 \*  
## 301) medianIncome>=1.37325 8 1.759241e+10 130412.50 \*  
## 151) latitude< 37.91 209 2.243228e+12 219238.30   
## 302) sdbedrooms< 1.041656 79 6.019943e+11 185976.00   
## 604) longitude>=-122.085 63 2.518195e+11 169906.30   
## 1208) longitude< -118.815 12 4.328891e+10 110391.70 \*  
## 1209) longitude>=-118.815 51 1.560256e+11 183909.80   
## 2418) longitude>=-118.265 26 4.082150e+10 152946.20   
## 4836) population>=798 19 1.858809e+10 143215.80 \*  
## 4837) population< 798 7 1.555172e+10 179357.10 \*  
## 2419) longitude< -118.265 25 6.435217e+10 216112.00   
## 4838) housingMedianAge< 41.5 17 2.561732e+10 201841.20 \*  
## 4839) housingMedianAge>=41.5 8 2.791560e+10 246437.50 \*  
## 605) longitude< -122.085 16 2.698483e+11 249250.10 \*  
## 303) sdbedrooms>=1.041656 130 1.500715e+12 239451.60   
## 606) longitude>=-122.34 115 1.078972e+12 231199.20   
## 1212) latitude>=35.34 18 1.055698e+11 179444.40 \*  
## 1213) latitude< 35.34 97 9.162411e+11 240803.10   
## 2426) longitude>=-118.305 62 4.543339e+11 217130.70   
## 4852) housingMedianAge< 45.5 55 3.369401e+11 207492.70   
## 9704) latitude< 34.095 41 2.071918e+11 193126.80   
## 19408) sdbedrooms< 1.114449 28 9.590291e+10 175875.00   
## 38816) housingMedianAge>=34.5 13 9.544197e+09 150115.40 \*  
## 38817) housingMedianAge< 34.5 15 7.025638e+10 198200.00 \*  
## 19409) sdbedrooms>=1.114449 13 8.500624e+10 230284.60 \*  
## 9705) latitude>=34.095 14 9.650645e+10 249564.40 \*  
## 4853) housingMedianAge>=45.5 7 7.214327e+10 292857.30 \*  
## 2427) longitude< -118.305 35 3.656170e+11 282737.20   
## 4854) latitude>=34.075 28 2.931014e+11 261010.80   
## 9708) sdbedrooms< 1.090195 13 6.843495e+10 213507.70 \*  
## 9709) sdbedrooms>=1.090195 15 1.699077e+11 302180.10 \*  
## 4855) latitude< 34.075 7 6.430357e+09 369642.90 \*  
## 607) longitude< -122.34 15 3.538675e+11 302720.10 \*  
## 19) medianIncome>=2.21365 1266 8.370802e+12 193365.80   
## 38) longitude>=-118.285 647 1.733003e+12 167650.40   
## 76) longitude>=-117.145 65 4.223828e+10 125380.00   
## 152) medianIncome< 2.58405 38 2.317857e+10 117957.90   
## 304) medianIncome>=2.41445 16 8.031298e+09 107487.50 \*  
## 305) medianIncome< 2.41445 22 1.211752e+10 125572.70   
## 610) sdrooms< 4.068223 12 4.541880e+09 115700.00 \*  
## 611) sdrooms>=4.068223 10 5.002416e+09 137420.00 \*  
## 153) medianIncome>=2.58405 27 1.402021e+10 135825.90   
## 306) sdbedrooms< 0.9917355 9 4.765849e+09 122688.90 \*  
## 307) sdbedrooms>=0.9917355 18 6.924509e+09 142394.40 \*  
## 77) longitude< -117.145 582 1.561653e+12 172371.30   
## 154) latitude>=33.715 500 9.066518e+11 165210.00   
## 308) longitude>=-117.82 34 2.156832e+10 116035.30   
## 616) longitude>=-117.685 26 1.359879e+10 109573.10   
## 1232) sdbedrooms< 1.030288 15 2.199533e+09 100433.30 \*  
## 1233) sdbedrooms>=1.030288 11 8.437565e+09 122036.40 \*  
## 617) longitude< -117.685 8 3.355019e+09 137037.50 \*  
## 309) longitude< -117.82 466 7.968677e+11 168797.90   
## 618) latitude< 34.065 303 5.054494e+11 160998.30   
## 1236) latitude>=33.885 186 1.551800e+11 148864.50   
## 2472) longitude< -118.165 116 7.619689e+10 137479.30   
## 4944) longitude< -118.225 26 2.448732e+10 114953.80   
## 9888) latitude< 33.995 19 7.534946e+09 105057.90 \*  
## 9889) latitude>=33.995 7 1.004133e+10 141814.30 \*  
## 4945) longitude>=-118.225 90 3.470614e+10 143986.70   
## 9890) latitude< 33.935 20 6.115088e+09 129140.00   
## 19780) longitude< -118.185 11 1.708016e+09 119481.80 \*  
## 19781) longitude>=-118.185 9 2.126882e+09 140944.40 \*  
## 9891) latitude>=33.935 70 2.292302e+10 148228.60   
## 19782) latitude>=34 34 6.074814e+09 136332.40 \*  
## 19783) latitude< 34 36 7.492163e+09 159463.90 \*  
## 2473) longitude>=-118.165 70 3.902965e+10 167731.40   
## 4946) housingMedianAge>=31.5 34 1.144314e+10 160350.00   
## 9892) population>=1388.5 20 2.979746e+09 153485.00 \*  
## 9893) population< 1388.5 14 6.174314e+09 170157.10 \*  
## 4947) housingMedianAge< 31.5 36 2.398441e+10 174702.80   
## 9894) latitude< 33.945 13 8.054323e+09 163276.90 \*  
## 9895) latitude>=33.945 23 1.327367e+10 181160.90   
## 19790) sdrooms< 3.729551 11 5.495982e+09 170027.30 \*  
## 19791) sdrooms>=3.729551 12 5.164267e+09 191366.70 \*  
## 1237) latitude< 33.885 117 2.793498e+11 180288.00   
## 2474) latitude< 33.755 18 6.785864e+09 154155.60 \*  
## 2475) latitude>=33.755 99 2.580367e+11 185039.40   
## 4950) sdbedrooms< 0.975668 9 1.279378e+10 144366.70 \*  
## 4951) sdbedrooms>=0.975668 90 2.288656e+11 189106.70   
## 9902) longitude< -118.185 22 4.772326e+10 165909.10   
## 19804) sdbedrooms>=1.074885 11 5.616362e+09 146472.70 \*  
## 19805) sdbedrooms< 1.074885 11 3.379591e+10 185345.50 \*  
## 9903) longitude>=-118.185 68 1.654734e+11 196611.80   
## 19806) population>=1946 29 2.055996e+10 177993.10   
## 39612) medianIncome< 2.64685 12 4.194977e+09 164283.30 \*  
## 39613) medianIncome>=2.64685 17 1.251738e+10 187670.60 \*  
## 19807) population< 1946 39 1.273851e+11 210456.40   
## 39614) latitude>=33.805 21 4.554382e+10 188200.00   
## 79228) housingMedianAge< 23.5 9 8.615722e+09 171355.60 \*  
## 79229) housingMedianAge>=23.5 12 3.245927e+10 200833.30 \*  
## 39615) latitude< 33.805 18 5.930297e+10 236422.20 \*  
## 619) latitude>=34.065 163 2.387226e+11 183296.30   
## 1238) longitude>=-118.235 105 1.332402e+11 171518.10   
## 2476) medianIncome< 2.91605 78 7.366181e+10 164320.50   
## 4952) longitude< -118.145 34 2.927910e+10 148964.70   
## 9904) longitude>=-118.175 8 1.318222e+10 124350.00 \*  
## 9905) longitude< -118.175 26 9.758402e+09 156538.50   
## 19810) latitude< 34.1 15 2.606609e+09 144506.70 \*  
## 19811) latitude>=34.1 11 2.019247e+09 172945.50 \*  
## 4953) longitude>=-118.145 44 3.017035e+10 176186.40   
## 9906) longitude>=-118.055 16 7.209918e+09 162112.50 \*  
## 9907) longitude< -118.055 28 1.798030e+10 184228.60   
## 19814) latitude>=34.125 11 7.599407e+09 165354.50 \*  
## 19815) latitude< 34.125 17 3.926861e+09 196441.20 \*  
## 2477) medianIncome>=2.91605 27 4.386411e+10 192311.10   
## 4954) sdrooms>=3.769798 18 1.965220e+10 175116.70 \*  
## 4955) sdrooms< 3.769798 9 8.246860e+09 226700.00 \*  
## 1239) longitude< -118.235 58 6.454617e+10 204619.00   
## 2478) latitude< 34.105 25 1.619796e+10 188736.00   
## 4956) longitude>=-118.265 8 2.150789e+09 162912.50 \*  
## 4957) longitude< -118.265 17 6.201838e+09 200888.20 \*  
## 2479) latitude>=34.105 33 3.726368e+10 216651.50   
## 4958) housingMedianAge< 30 21 1.872037e+10 208214.30 \*  
## 4959) housingMedianAge>=30 12 1.443228e+10 231416.70 \*  
## 155) latitude< 33.715 82 4.730044e+11 216037.80   
## 310) housingMedianAge< 27.5 53 2.085875e+11 189741.50   
## 620) longitude>=-117.245 25 6.338496e+10 159400.00   
## 1240) housingMedianAge< 18 9 1.633762e+10 125155.60 \*  
## 1241) housingMedianAge>=18 16 3.055650e+10 178662.50 \*  
## 621) longitude< -117.245 28 1.016381e+11 216832.10   
## 1242) sdrooms>=3.901456 15 3.997385e+10 189293.30 \*  
## 1243) sdrooms< 3.901456 13 3.716253e+10 248607.70 \*  
## 311) housingMedianAge>=27.5 29 1.607879e+11 264096.60   
## 622) sdrooms< 4.090014 18 2.526724e+10 227261.10 \*  
## 623) sdrooms>=4.090014 11 7.113189e+10 324372.80 \*  
## 39) longitude< -118.285 619 5.762745e+12 220244.50   
## 78) longitude>=-122.375 553 4.432162e+12 210545.90   
## 156) latitude>=34.175 354 1.668449e+12 182444.60   
## 312) latitude>=37.915 38 5.183561e+10 112936.80   
## 624) longitude>=-121.59 22 1.292310e+10 94590.91   
## 1248) latitude< 37.995 7 2.647109e+09 69014.29 \*  
## 1249) latitude>=37.995 15 3.559909e+09 106526.70 \*  
## 625) longitude< -121.59 16 2.132656e+10 138162.50 \*  
## 313) latitude< 37.915 316 1.410945e+12 190803.20   
## 626) latitude>=34.775 192 8.203333e+11 177057.30   
## 1252) longitude>=-121.76 43 7.012219e+10 114579.10   
## 2504) longitude>=-119.79 10 4.439809e+09 78210.00 \*  
## 2505) longitude< -119.79 33 4.844708e+10 125600.00   
## 5010) latitude>=37.35 8 2.860540e+09 86000.00 \*  
## 5011) latitude< 37.35 25 2.902677e+10 138272.00   
## 10022) population>=1138 18 1.073992e+10 128450.00 \*  
## 10023) population< 1138 7 1.208509e+10 163528.60 \*  
## 1253) longitude< -121.76 149 5.339190e+11 195087.90   
## 2506) latitude>=37.585 75 2.672238e+11 180169.30   
## 5012) longitude>=-122.235 36 5.908355e+10 150055.60   
## 10024) housingMedianAge>=40 14 6.847957e+09 111314.30 \*  
## 10025) housingMedianAge< 40 22 1.785166e+10 174709.10   
## 20050) housingMedianAge>=33.5 7 1.451649e+09 156585.70 \*  
## 20051) housingMedianAge< 33.5 15 1.302785e+10 183166.70 \*  
## 5013) longitude< -122.235 39 1.453590e+11 207966.70   
## 10026) longitude< -122.275 13 1.905409e+10 160169.20 \*  
## 10027) longitude>=-122.275 26 8.175532e+10 231865.40   
## 20054) latitude< 37.805 8 1.207914e+10 195037.50 \*  
## 20055) latitude>=37.805 18 5.400346e+10 248233.30 \*  
## 2507) latitude< 37.585 74 2.330850e+11 210208.10   
## 5014) longitude>=-121.94 45 6.750019e+10 189326.70   
## 10028) longitude>=-121.865 15 1.541247e+10 164626.70 \*  
## 10029) longitude< -121.865 30 3.836069e+10 201676.70   
## 20058) sdbedrooms>=1.097854 7 7.492280e+09 174600.00 \*  
## 20059) sdbedrooms< 1.097854 23 2.417447e+10 209917.40   
## 40118) population>=1270 7 2.249117e+09 187042.90 \*  
## 40119) population< 1270 16 1.666021e+10 219925.00 \*  
## 5015) longitude< -121.94 29 1.155160e+11 242610.30   
## 10030) population>=1625 10 2.734080e+10 210000.00 \*  
## 10031) population< 1625 19 7.194384e+10 259773.70 \*  
## 627) latitude< 34.775 124 4.981611e+11 212087.10   
## 1254) longitude>=-119.42 100 2.895412e+11 196269.00   
## 2508) housingMedianAge>=14.5 93 1.363450e+11 190069.90   
## 5016) latitude>=34.25 23 3.720366e+10 162852.20   
## 10032) housingMedianAge>=30.5 13 1.995687e+10 144738.50 \*  
## 10033) housingMedianAge< 30.5 10 7.436400e+09 186400.00 \*  
## 5017) latitude< 34.25 70 7.650448e+10 199012.90   
## 10034) sdrooms< 4.069589 50 4.565534e+10 191260.00   
## 20068) population>=1648 38 3.436477e+10 185947.40   
## 40136) sdbedrooms< 1.064378 19 1.354133e+10 174221.10 \*  
## 40137) sdbedrooms>=1.064378 19 1.559820e+10 197673.70 \*  
## 20069) population< 1648 12 6.821757e+09 208083.30 \*  
## 10035) sdrooms>=4.069589 20 2.033045e+10 218395.00   
## 20070) longitude>=-118.46 10 8.295361e+09 201370.00 \*  
## 20071) longitude< -118.46 10 6.238076e+09 235420.00 \*  
## 2509) housingMedianAge< 14.5 7 1.021405e+11 278628.70 \*  
## 1255) longitude< -119.42 24 7.934345e+10 277995.90   
## 2510) population>=877 15 4.965657e+09 248546.70 \*  
## 2511) population< 877 9 3.968756e+10 327077.90 \*  
## 157) latitude< 34.175 199 1.986879e+12 260535.20   
## 314) longitude>=-118.385 141 1.196382e+12 231871.70   
## 628) latitude< 34.045 75 2.631432e+11 191388.00   
## 1256) latitude>=33.925 44 1.104283e+11 169970.50   
## 2512) longitude>=-118.365 32 4.818190e+10 155662.50   
## 5024) longitude>=-118.33 8 1.284916e+10 135800.00 \*  
## 5025) longitude< -118.33 24 3.112453e+10 162283.30   
## 10050) population>=2040 11 1.986482e+09 150272.70 \*  
## 10051) population< 2040 13 2.620857e+10 172446.20 \*  
## 2513) longitude< -118.365 12 3.822616e+10 208125.00 \*  
## 1257) latitude< 33.925 31 1.038844e+11 221787.10   
## 2514) population>=1045 22 2.289082e+10 204709.10   
## 5028) longitude>=-118.335 15 1.077699e+10 191506.70 \*  
## 5029) longitude< -118.335 7 3.896640e+09 233000.00 \*  
## 2515) population< 1045 9 5.889240e+10 263533.30 \*  
## 629) latitude>=34.045 66 6.706377e+11 277875.80   
## 1258) latitude>=34.13 14 5.003038e+10 209400.00 \*  
## 1259) latitude< 34.13 52 5.372885e+11 296311.60   
## 2518) longitude>=-118.305 14 4.381041e+10 229235.70 \*  
## 2519) longitude< -118.305 38 4.072833e+11 321023.80   
## 5038) population< 1767 28 2.479668e+11 292382.20   
## 10076) sdrooms< 3.554513 14 1.002552e+11 245864.40 \*  
## 10077) sdrooms>=3.554513 14 8.712212e+10 338900.10 \*  
## 5039) population>=1767 10 7.203239e+10 401220.20 \*  
## 315) longitude< -118.385 58 3.930270e+11 330217.30   
## 630) medianIncome< 2.66875 18 9.256008e+10 288100.00 \*  
## 631) medianIncome>=2.66875 40 2.541690e+11 349170.10   
## 1262) longitude>=-118.465 26 1.470412e+11 321142.30   
## 2524) sdrooms< 3.480042 8 6.276176e+10 274162.50 \*  
## 2525) sdrooms>=3.480042 18 5.877513e+10 342022.30 \*  
## 1263) longitude< -118.465 14 4.877236e+10 401221.60 \*  
## 79) longitude< -122.375 66 8.427383e+11 301506.20   
## 158) latitude>=37.825 13 5.188762e+10 182123.10 \*  
## 159) latitude< 37.825 53 5.601245e+11 330788.80   
## 318) latitude< 37.755 19 9.389349e+10 266378.90 \*  
## 319) latitude>=37.755 34 3.433584e+11 366782.50   
## 638) population>=1607.5 11 1.138281e+11 314509.20 \*  
## 639) population< 1607.5 23 1.850974e+11 391782.80   
## 1278) sdbedrooms< 1.019356 7 4.216803e+10 323471.40 \*  
## 1279) sdbedrooms>=1.019356 16 9.597326e+10 421669.10 \*  
## 5) medianIncome>=3.18615 6303 5.534740e+13 218998.40   
## 10) housingMedianAge< 38.5 5063 3.701853e+13 206508.40   
## 20) medianIncome< 4.53095 3368 2.313441e+13 191195.20   
## 40) sdrooms>=4.790089 2422 1.395971e+13 177209.70   
## 80) medianIncome< 3.8932 1236 5.941826e+12 160068.10   
## 160) latitude>=34.475 686 2.423181e+12 145860.20   
## 320) longitude>=-120.105 157 1.557471e+11 100821.00   
## 640) sdrooms< 6.872659 138 8.500165e+10 95203.62   
## 1280) latitude>=34.685 120 5.186972e+10 90525.00   
## 2560) sdrooms< 6.114141 89 1.757193e+10 85985.39   
## 5120) longitude>=-117.84 9 1.815542e+09 68144.44 \*  
## 5121) longitude< -117.84 80 1.256942e+10 87992.50 \*  
## 2561) sdrooms>=6.114141 31 2.719800e+10 103558.10   
## 5122) latitude< 36.355 13 2.715391e+09 81038.46 \*  
## 5123) latitude>=36.355 18 1.312847e+10 119822.20 \*  
## 1281) latitude< 34.685 18 1.299357e+10 126394.40 \*  
## 641) sdrooms>=6.872659 19 3.476265e+10 141621.10 \*  
## 321) longitude< -120.105 529 1.854435e+12 159227.20   
## 642) latitude>=37.305 454 1.214952e+12 149874.90   
## 1284) longitude>=-122.385 367 6.669987e+11 141734.60   
## 2568) latitude>=37.975 243 3.721596e+11 132784.00   
## 5136) latitude>=39.325 35 2.351696e+10 105660.00   
## 10272) medianIncome< 3.4436 13 1.351491e+09 91761.54 \*  
## 10273) medianIncome>=3.4436 22 1.817042e+10 113872.70   
## 20546) longitude< -122.015 9 2.627089e+09 99688.89 \*  
## 20547) longitude>=-122.015 13 1.247919e+10 123692.30 \*  
## 5137) latitude< 39.325 208 3.185599e+11 137348.10   
## 10274) longitude< -121.285 139 1.622045e+11 129513.70   
## 20548) latitude>=38.645 41 1.981760e+10 108836.60   
## 41096) longitude< -121.33 30 1.249835e+10 102390.00   
## 82192) medianIncome< 3.73635 22 3.462073e+09 97240.91 \*  
## 82193) medianIncome>=3.73635 8 6.848940e+09 116550.00 \*  
## 41097) longitude>=-121.33 11 2.672256e+09 126418.20 \*  
## 20549) latitude< 38.645 98 1.175241e+11 138164.30   
## 41098) housingMedianAge>=30.5 32 1.835770e+10 121556.20   
## 82196) medianIncome< 3.5688 16 6.772784e+09 108218.80 \*  
## 82197) medianIncome>=3.5688 16 5.892469e+09 134893.80 \*  
## 41099) housingMedianAge< 30.5 66 8.606041e+10 146216.70   
## 82198) population>=1541.5 38 3.334119e+10 134284.20   
## 164396) longitude>=-121.495 17 7.144202e+09 115647.10 \*  
## 164397) longitude< -121.495 21 1.551204e+10 149371.40 \*  
## 82199) population< 1541.5 28 3.996573e+10 162410.70   
## 164398) sdrooms< 5.433072 13 1.189209e+10 143561.50 \*  
## 164399) sdrooms>=5.433072 15 1.945190e+10 178746.70 \*  
## 10275) longitude>=-121.285 69 1.306372e+11 153130.40   
## 20550) latitude< 38.585 23 2.171773e+10 131882.60   
## 41100) medianIncome< 3.6385 15 7.680160e+09 118300.00 \*  
## 41101) medianIncome>=3.6385 8 6.081560e+09 157350.00 \*  
## 20551) latitude>=38.585 46 9.334371e+10 163754.30   
## 41102) sdrooms< 5.460834 9 3.214789e+09 134311.10 \*  
## 41103) sdrooms>=5.460834 37 8.042897e+10 170916.20   
## 82206) medianIncome>=3.4763 27 1.932683e+10 159251.90   
## 164412) sdbedrooms>=1.138717 10 3.819924e+09 141660.00 \*  
## 164413) sdbedrooms< 1.138717 17 1.059174e+10 169600.00 \*  
## 82207) medianIncome< 3.4763 10 4.751001e+10 202410.00 \*  
## 2569) latitude< 37.975 124 2.372209e+11 159275.00   
## 5138) longitude>=-121.935 75 8.875361e+10 138064.00   
## 10276) longitude>=-120.755 13 2.861548e+09 108930.80 \*  
## 10277) longitude< -120.755 62 7.254486e+10 144172.60   
## 20554) sdrooms< 6.193624 50 3.400292e+10 138530.00   
## 41108) longitude>=-121.39 42 2.615215e+10 134085.70   
## 82216) latitude>=37.805 7 5.542940e+09 115300.00 \*  
## 82217) latitude< 37.805 35 1.764483e+10 137842.90 \*  
## 41109) longitude< -121.39 8 2.665959e+09 161862.50 \*  
## 20555) sdrooms>=6.193624 12 3.031694e+10 167683.30 \*  
## 5139) longitude< -121.935 49 6.307682e+10 191740.80   
## 10278) latitude>=37.6 39 3.789190e+10 184728.20   
## 20556) sdrooms< 5.564522 29 2.469555e+10 178175.90   
## 41112) longitude< -122.15 8 9.910739e+09 153862.50 \*  
## 41113) longitude>=-122.15 21 8.254130e+09 187438.10   
## 82226) latitude< 37.675 11 3.256896e+09 174818.20 \*  
## 82227) latitude>=37.675 10 1.318276e+09 201320.00 \*  
## 20557) sdrooms>=5.564522 10 8.340601e+09 203730.00 \*  
## 10279) latitude< 37.6 10 1.578725e+10 219090.00 \*  
## 1285) longitude< -122.385 87 4.210470e+11 184213.80   
## 2570) latitude>=38.74 29 2.596943e+10 118310.30   
## 5140) latitude>=39.345 14 3.653500e+09 98200.00 \*  
## 5141) latitude< 39.345 15 1.136946e+10 137080.00 \*  
## 2571) latitude< 38.74 58 2.061456e+11 217165.50   
## 5142) latitude>=38.075 51 9.423665e+10 205178.40   
## 10284) latitude>=38.315 35 4.939557e+10 191897.10   
## 20568) population>=634 28 2.494805e+10 181710.70   
## 41136) housingMedianAge>=19 12 7.252450e+09 169250.00 \*  
## 41137) housingMedianAge< 19 16 1.443494e+10 191056.20 \*  
## 20569) population< 634 7 9.920657e+09 232642.90 \*  
## 10285) latitude< 38.315 16 2.516227e+10 234231.20 \*  
## 5143) latitude< 38.075 7 5.118952e+10 304500.00 \*  
## 643) latitude< 37.305 75 3.593979e+11 215840.00   
## 1286) longitude>=-121.915 63 2.240206e+11 201476.20   
## 2572) sdrooms< 5.945965 44 1.075190e+11 186702.30   
## 5144) longitude>=-121.16 21 3.643560e+10 163490.50   
## 10288) medianIncome>=3.58835 7 8.392497e+09 141042.90 \*  
## 10289) medianIncome< 3.58835 14 2.275220e+10 174714.30 \*  
## 5145) longitude< -121.16 23 4.943823e+10 207895.70   
## 10290) latitude< 36.885 15 1.426395e+10 186173.30 \*  
## 10291) latitude>=36.885 8 1.482536e+10 248625.00 \*  
## 2573) sdrooms>=5.945965 19 8.465734e+10 235689.50 \*  
## 1287) longitude< -121.915 12 5.413917e+10 291250.00 \*  
## 161) latitude< 34.475 550 3.207443e+12 177789.30   
## 322) longitude>=-117.8 318 1.178876e+12 149879.30   
## 644) latitude>=33.79 144 1.306339e+11 124196.50   
## 1288) longitude>=-117.52 99 9.384782e+10 116796.00   
## 2576) sdrooms< 6.404929 77 2.243762e+10 110911.70   
## 5152) longitude>=-117.3 31 8.439747e+09 102109.70 \*  
## 5153) longitude< -117.3 46 9.977573e+09 116843.50   
## 10306) housingMedianAge>=28.5 16 2.120354e+09 105331.20 \*  
## 10307) housingMedianAge< 28.5 30 4.605782e+09 122983.30 \*  
## 2577) sdrooms>=6.404929 22 5.941276e+10 137390.90   
## 5154) latitude>=34.085 10 7.951200e+09 120100.00 \*  
## 5155) latitude< 34.085 12 4.598034e+10 151800.00 \*  
## 1289) longitude< -117.52 45 1.943542e+10 140477.80   
## 2578) housingMedianAge>=28.5 23 3.281724e+09 131326.10 \*  
## 2579) housingMedianAge< 28.5 22 1.221347e+10 150045.50   
## 5158) longitude< -117.675 9 4.013040e+09 138033.30 \*  
## 5159) longitude>=-117.675 13 6.002771e+09 158361.50 \*  
## 645) latitude< 33.79 174 8.746526e+11 171133.90   
## 1290) longitude>=-117.185 124 3.433338e+11 151375.80   
## 2580) longitude>=-116.325 18 8.812685e+09 97483.33 \*  
## 2581) longitude< -116.325 106 2.733643e+11 160527.40   
## 5162) latitude< 32.765 43 2.015783e+10 133346.50   
## 10324) population>=1083.5 34 1.669250e+10 129105.90   
## 20648) sdrooms>=5.005633 26 7.535290e+09 123103.80   
## 41296) population>=2079 7 2.381837e+09 108857.10 \*  
## 41297) population< 2079 19 3.209227e+09 128352.60 \*  
## 20649) sdrooms< 5.005633 8 5.176509e+09 148612.50 \*  
## 10325) population< 1083.5 9 5.441000e+08 149366.70 \*  
## 5163) latitude>=32.765 63 1.997550e+11 179079.40   
## 10326) population>=661.5 56 8.907858e+10 172503.60   
## 20652) housingMedianAge>=14.5 46 3.786186e+10 162995.70   
## 41304) population>=2212 11 1.141949e+10 133463.60 \*  
## 41305) population< 2212 35 1.383372e+10 172277.10 \*  
## 20653) housingMedianAge< 14.5 10 2.792954e+10 216240.00 \*  
## 10327) population< 661.5 7 8.888283e+10 231685.90 \*  
## 1291) longitude< -117.185 50 3.628607e+11 220134.00   
## 2582) population>=980.5 35 1.288682e+11 196508.60   
## 5164) population>=1633 16 1.925395e+10 167806.20 \*  
## 5165) population< 1633 19 8.533317e+10 220678.90 \*  
## 2583) population< 980.5 15 1.688735e+11 275260.10 \*  
## 323) longitude< -117.8 232 1.441318e+12 216045.30   
## 646) longitude>=-118.305 172 6.037125e+11 197455.20   
## 1292) latitude>=33.7 165 3.550742e+11 191858.20   
## 2584) sdrooms< 5.85884 149 2.399662e+11 186962.40   
## 5168) longitude< -118.165 12 1.452090e+10 151475.00 \*  
## 5169) longitude>=-118.165 137 2.090093e+11 190070.80   
## 10338) longitude>=-118.105 120 1.456794e+11 184777.50   
## 20676) latitude< 34.105 113 1.005825e+11 182466.40   
## 41352) latitude>=33.885 74 4.465685e+10 174564.90   
## 82704) latitude< 34.065 47 2.027884e+10 168221.30   
## 165408) sdbedrooms< 1.083554 35 9.574584e+09 163960.00   
## 330816) sdbedrooms>=0.99954 28 4.874301e+09 159417.90 \*  
## 330817) sdbedrooms< 0.99954 7 1.811934e+09 182128.60 \*  
## 165409) sdbedrooms>=1.083554 12 8.215030e+09 180650.00 \*  
## 82705) latitude>=34.065 27 1.919436e+10 185607.40   
## 165410) housingMedianAge< 34.5 18 4.512505e+09 174950.00 \*  
## 165411) housingMedianAge>=34.5 9 8.548516e+09 206922.20 \*  
## 41353) latitude< 33.885 39 4.253917e+10 197459.00   
## 82706) medianIncome< 3.4278 8 3.731320e+09 176900.00 \*  
## 82707) medianIncome>=3.4278 31 3.455387e+10 202764.50   
## 165414) medianIncome>=3.6435 21 1.855694e+10 193400.00   
## 330828) sdrooms>=5.394992 7 5.776309e+09 175514.30 \*  
## 330829) sdrooms< 5.394992 14 9.421694e+09 202342.90 \*  
## 165415) medianIncome< 3.6435 10 1.028804e+10 222430.00 \*  
## 20677) latitude>=34.105 7 3.475007e+10 222085.70 \*  
## 10339) longitude< -118.105 17 3.623384e+10 227435.30 \*  
## 2585) sdrooms>=5.85884 16 7.827880e+10 237450.00 \*  
## 1293) latitude< 33.7 7 1.216293e+11 329386.00 \*  
## 647) longitude< -118.305 60 6.077658e+11 269336.70   
## 1294) latitude>=34.18 36 1.814967e+11 220711.10   
## 2588) longitude>=-119.245 29 1.965963e+10 196220.70   
## 5176) longitude>=-118.47 10 2.787401e+09 174470.00 \*  
## 5177) longitude< -118.47 19 9.651341e+09 207668.40 \*  
## 2589) longitude< -119.245 7 7.238381e+10 322171.60 \*  
## 1295) latitude< 34.18 24 2.134688e+11 342275.10   
## 2590) medianIncome< 3.6627 13 9.771443e+10 301415.50 \*  
## 2591) medianIncome>=3.6627 11 6.840088e+10 390563.80 \*  
## 81) medianIncome>=3.8932 1186 7.276221e+12 195074.00   
## 162) latitude>=37.995 235 6.230049e+11 159837.40   
## 324) longitude>=-122.435 184 3.461553e+11 148226.60   
## 648) longitude< -121.255 131 1.298664e+11 137613.70   
## 1296) latitude>=38.675 36 1.971127e+10 118641.70   
## 2592) housingMedianAge>=20.5 15 3.313877e+09 99986.67 \*  
## 2593) housingMedianAge< 20.5 21 7.448587e+09 131966.70 \*  
## 1297) latitude< 38.675 95 9.228699e+10 144803.20   
## 2594) longitude>=-121.495 48 2.175473e+10 134833.30   
## 5188) sdbedrooms< 0.9884467 15 4.787029e+09 123573.30 \*  
## 5189) sdbedrooms>=0.9884467 33 1.420142e+10 139951.50   
## 10378) medianIncome< 4.0955 14 4.964872e+09 129564.30 \*  
## 10379) medianIncome>=4.0955 19 6.613009e+09 147605.30 \*  
## 2595) longitude< -121.495 47 6.088860e+10 154985.10   
## 5190) medianIncome< 4.3064 37 2.687592e+10 146610.80   
## 10380) longitude< -121.735 27 1.394683e+10 138696.30   
## 20760) population< 973 7 5.521557e+09 122542.90 \*  
## 20761) population>=973 20 5.959450e+09 144350.00 \*  
## 10381) longitude>=-121.735 10 6.671396e+09 167980.00 \*  
## 5191) medianIncome>=4.3064 10 2.181728e+10 185970.00 \*  
## 649) longitude>=-121.255 53 1.650641e+11 174458.50   
## 1298) medianIncome< 4.0677 17 1.425664e+10 147817.60 \*  
## 1299) medianIncome>=4.0677 36 1.330444e+11 187038.90   
## 2598) medianIncome>=4.1117 29 3.925771e+10 175120.70   
## 5196) longitude>=-120.62 7 5.240517e+09 143057.10 \*  
## 5197) longitude< -120.62 22 2.453090e+10 185322.70   
## 10394) sdrooms< 6.076812 8 4.650599e+09 157662.50 \*  
## 10395) sdrooms>=6.076812 14 1.026205e+10 201128.60 \*  
## 2599) medianIncome< 4.1117 7 7.260189e+10 236414.30 \*  
## 325) longitude< -122.435 51 1.625510e+11 201727.50   
## 650) latitude>=38.78 13 7.101600e+09 129600.00 \*  
## 651) latitude< 38.78 38 6.468171e+10 226402.60   
## 1302) sdbedrooms< 1.024628 13 9.340211e+09 198861.50 \*  
## 1303) sdbedrooms>=1.024628 25 4.035331e+10 240724.00   
## 2606) sdrooms< 6.136829 17 2.631821e+10 228894.10 \*  
## 2607) sdrooms>=6.136829 8 6.600459e+09 265862.50 \*  
## 163) latitude< 37.995 951 6.289336e+12 203781.20   
## 326) longitude>=-122.2 917 5.538670e+12 199434.40   
## 652) sdbedrooms< 1.062797 588 2.297821e+12 187316.30   
## 1304) longitude>=-117.72 166 2.534763e+11 156462.70   
## 2608) latitude>=33.835 58 2.710506e+10 134987.90   
## 5216) latitude>=34.135 11 6.982796e+09 115618.20 \*  
## 5217) latitude< 34.135 47 1.502930e+10 139521.30   
## 10434) longitude>=-117.595 31 5.800899e+09 132393.50 \*  
## 10435) longitude< -117.595 16 4.602014e+09 153331.20 \*  
## 2609) latitude< 33.835 108 1.852594e+11 167995.40   
## 5218) longitude>=-117.295 94 9.829962e+10 161912.80   
## 10436) longitude>=-116.915 8 1.315955e+10 120012.50 \*  
## 10437) longitude< -116.915 86 6.978850e+10 165810.50   
## 20874) latitude< 32.73 25 7.329222e+09 143848.00 \*  
## 20875) latitude>=32.73 61 4.545842e+10 174811.50   
## 41750) sdbedrooms< 0.9992548 21 9.133292e+09 161981.00   
## 83500) housingMedianAge< 25 7 5.118137e+09 148057.10 \*  
## 83501) housingMedianAge>=25 14 1.979494e+09 168942.90 \*  
## 41751) sdbedrooms>=0.9992548 40 3.105310e+10 181547.50   
## 83502) housingMedianAge< 24 25 1.563449e+10 172912.00   
## 167004) housingMedianAge>=14.5 15 3.169689e+09 164206.70 \*  
## 167005) housingMedianAge< 14.5 10 9.622941e+09 185970.00 \*  
## 83503) housingMedianAge>=24 15 1.044716e+10 195940.00 \*  
## 5219) longitude< -117.295 14 6.013087e+10 208835.70 \*  
## 1305) longitude< -117.72 422 1.824160e+12 199453.10   
## 2610) latitude>=34.51 161 8.235162e+11 174121.10   
## 5220) longitude>=-121.295 80 8.679735e+10 122490.00   
## 10440) longitude>=-120.39 52 3.946817e+10 108128.80   
## 20880) longitude< -118.695 42 1.004675e+10 98728.57   
## 41760) sdrooms< 5.661201 14 1.004077e+09 88185.71 \*  
## 41761) sdrooms>=5.661201 28 6.708480e+09 104000.00 \*  
## 20881) longitude>=-118.695 10 1.012247e+10 147610.00 \*  
## 10441) longitude< -120.39 28 1.668741e+10 149160.70   
## 20882) sdbedrooms< 1.02678 21 7.388932e+09 141081.00 \*  
## 20883) sdbedrooms>=1.02678 7 3.814740e+09 173400.00 \*  
## 5221) longitude< -121.295 81 3.128281e+11 225114.80   
## 10442) latitude>=37.335 49 9.809707e+10 209287.80   
## 20884) housingMedianAge>=22.5 37 5.763882e+10 198932.40   
## 41768) sdbedrooms>=0.960567 30 3.110835e+10 193236.70   
## 83536) housingMedianAge>=32.5 18 4.682605e+09 181916.70 \*  
## 83537) housingMedianAge< 32.5 12 2.065934e+10 210216.70 \*  
## 41769) sdbedrooms< 0.960567 7 2.138614e+10 223342.90 \*  
## 20885) housingMedianAge< 22.5 12 2.425718e+10 241216.70 \*  
## 10443) latitude< 37.335 32 1.836616e+11 249350.00   
## 20886) sdrooms< 5.282814 14 2.438136e+10 206600.00 \*  
## 20887) sdrooms>=5.282814 18 1.137942e+11 282600.10 \*  
## 2611) latitude< 34.51 261 8.335983e+11 215079.30   
## 5222) longitude>=-118.28 177 2.410606e+11 200210.20   
## 10444) latitude>=33.715 169 2.153902e+11 197961.50   
## 20888) sdrooms< 4.966154 27 1.572700e+10 174992.60   
## 41776) latitude>=33.895 14 8.502732e+09 165064.30 \*  
## 41777) latitude< 33.895 13 4.358117e+09 185684.60 \*  
## 20889) sdrooms>=4.966154 142 1.827103e+11 202328.90   
## 41778) longitude>=-118.025 89 6.167104e+10 195883.10   
## 83556) longitude< -117.86 75 3.381389e+10 190954.70   
## 167112) latitude>=33.945 29 9.668148e+09 179837.90   
## 334224) population>=932.5 20 5.572738e+09 173575.00   
## 668448) population< 1463 10 1.975020e+09 162900.00 \*  
## 668449) population>=1463 10 1.318605e+09 184250.00 \*  
## 334225) population< 932.5 9 1.567622e+09 193755.60 \*  
## 167113) latitude< 33.945 46 1.830247e+10 197963.00   
## 334226) latitude< 33.895 36 1.406302e+10 194930.60   
## 668452) sdrooms< 5.297549 15 1.959697e+09 184413.30 \*  
## 668453) sdrooms>=5.297549 21 9.259011e+09 202442.90 \*  
## 334227) latitude>=33.895 10 2.716596e+09 208880.00 \*  
## 83557) longitude>=-117.86 14 1.627608e+10 222285.70 \*  
## 41779) longitude< -118.025 53 1.111322e+11 213152.80   
## 83558) latitude< 34.045 43 6.726264e+10 203665.10   
## 167116) longitude>=-118.085 11 6.950229e+09 178390.90 \*  
## 167117) longitude< -118.085 32 5.087036e+10 212353.10   
## 334234) longitude< -118.155 10 1.350724e+10 182550.00 \*  
## 334235) longitude>=-118.155 22 2.444346e+10 225900.00   
## 668470) sdbedrooms>=0.9869676 15 1.161585e+10 215933.30 \*  
## 668471) sdbedrooms< 0.9869676 7 8.144697e+09 247257.10 \*  
## 83559) latitude>=34.045 10 2.335470e+10 253950.00 \*  
## 10445) latitude< 33.715 8 6.764129e+09 247712.50 \*  
## 5223) longitude< -118.28 84 4.709452e+11 246410.70   
## 10446) latitude>=34.165 63 2.129618e+11 228792.10   
## 20892) latitude< 34.35 56 1.230230e+11 219914.30   
## 41784) latitude>=34.195 41 5.036206e+10 207919.50   
## 83568) longitude>=-118.475 16 1.727324e+10 187518.80 \*  
## 83569) longitude< -118.475 25 2.216797e+10 220976.00   
## 167138) sdrooms< 5.242438 11 2.104125e+09 202363.60 \*  
## 167139) sdrooms>=5.242438 14 1.325916e+10 235600.00 \*  
## 41785) latitude< 34.195 15 5.063854e+10 252700.00 \*  
## 20893) latitude>=34.35 7 5.021605e+10 299814.30 \*  
## 10447) latitude< 34.165 21 1.797583e+11 299266.70   
## 20894) medianIncome>=4.2065 10 7.431477e+10 244490.00 \*  
## 20895) medianIncome< 4.2065 11 4.816149e+10 349063.70 \*  
## 653) sdbedrooms>=1.062797 329 3.000183e+12 221092.10   
## 1306) housingMedianAge< 21.5 160 1.013836e+12 196235.60   
## 2612) medianIncome< 4.2104 95 5.038317e+11 180553.70   
## 5224) latitude>=33.705 69 2.564991e+11 166120.30   
## 10448) longitude>=-120.34 58 1.387892e+11 152979.30   
## 20896) latitude>=34.755 14 6.882957e+09 119485.70 \*  
## 20897) latitude< 34.755 44 1.112035e+11 163636.40   
## 41794) longitude>=-118.3 36 5.163453e+10 149538.90   
## 83588) sdrooms< 7.642271 28 1.382745e+10 140821.40   
## 167176) medianIncome< 4.15365 18 5.585144e+09 130944.40 \*  
## 167177) medianIncome>=4.15365 10 3.325540e+09 158600.00 \*  
## 83589) sdrooms>=7.642271 8 2.823182e+10 180050.00 \*  
## 41795) longitude< -118.3 8 2.021872e+10 227075.00 \*  
## 10449) longitude< -120.34 11 5.488387e+10 235409.10 \*  
## 5225) latitude< 33.705 26 1.948111e+11 218857.70   
## 10450) latitude< 33.135 12 4.453035e+10 183758.30 \*  
## 10451) latitude>=33.135 14 1.228255e+11 248942.90 \*  
## 2613) medianIncome>=4.2104 65 4.524959e+11 219155.40   
## 5226) medianIncome>=4.24075 54 2.512772e+11 206720.40   
## 10452) longitude>=-121.875 47 2.127599e+11 197861.70   
## 20904) latitude>=34.22 20 3.485591e+10 164865.00   
## 41808) longitude>=-120.505 9 8.148420e+09 135566.70 \*  
## 41809) longitude< -120.505 11 1.266107e+10 188836.40 \*  
## 20905) latitude< 34.22 27 1.399982e+11 222303.70   
## 41810) medianIncome< 4.31465 7 1.539042e+10 177457.10 \*  
## 41811) medianIncome>=4.31465 20 1.056018e+11 238000.00   
## 83622) longitude>=-117.325 10 3.104072e+10 207650.00 \*  
## 83623) longitude< -117.325 10 5.613862e+10 268350.00 \*  
## 10453) longitude< -121.875 7 1.006422e+10 266200.00 \*  
## 5227) medianIncome< 4.24075 11 1.518777e+11 280200.10 \*  
## 1307) housingMedianAge>=21.5 169 1.793901e+12 244624.90   
## 2614) latitude>=33.585 150 1.219433e+12 234022.70   
## 5228) longitude>=-118.065 50 2.112576e+11 199390.00   
## 10456) latitude>=34.11 7 1.163493e+10 125985.70 \*  
## 10457) latitude< 34.11 43 1.557653e+11 211339.50   
## 20914) housingMedianAge>=25.5 29 4.057963e+10 197637.90   
## 41828) population< 1589 16 1.438330e+10 183962.50 \*  
## 41829) population>=1589 13 1.952125e+10 214469.20 \*  
## 20915) housingMedianAge< 25.5 14 9.846394e+10 239721.40 \*  
## 5229) longitude< -118.065 100 9.182183e+11 251339.00   
## 10458) latitude>=37.58 15 2.478427e+10 171326.70 \*  
## 10459) latitude< 37.58 85 7.804579e+11 265458.90   
## 20918) sdrooms>=5.299105 54 3.454774e+11 244244.50   
## 41836) population< 694.5 8 2.008556e+10 189700.00 \*  
## 41837) population>=694.5 46 2.974518e+11 253730.50   
## 83674) sdbedrooms< 1.149229 38 1.383713e+11 240628.90   
## 167348) population>=1472 9 2.698332e+10 203166.70 \*  
## 167349) population< 1472 29 9.483731e+10 252255.20   
## 334698) longitude>=-119.595 19 6.715179e+10 240805.30 \*  
## 334699) longitude< -119.595 10 2.046189e+10 274010.00 \*  
## 83675) sdbedrooms>=1.149229 8 1.215750e+11 315962.60 \*  
## 20919) sdrooms< 5.299105 31 3.683438e+11 302413.00   
## 41838) longitude>=-118.365 15 8.949128e+10 246080.00 \*  
## 41839) longitude< -118.365 16 1.866253e+11 355225.20 \*  
## 2615) latitude< 33.585 19 4.244935e+11 328326.60 \*  
## 327) longitude< -122.2 34 2.660300e+11 321017.70   
## 654) medianIncome>=4.3586 10 3.208119e+10 257790.00 \*  
## 655) medianIncome< 4.3586 24 1.773142e+11 347362.50   
## 1310) sdbedrooms< 1.08736 17 8.666093e+10 321305.90 \*  
## 1311) sdbedrooms>=1.08736 7 5.108020e+10 410643.00 \*  
## 41) sdrooms< 4.790089 946 7.488102e+12 227001.60   
## 82) longitude>=-118.275 418 2.203670e+12 196973.00   
## 164) latitude>=33.695 311 9.066236e+11 186052.70   
## 328) longitude>=-117.805 22 1.109073e+10 121131.80   
## 656) sdbedrooms< 1.015773 12 1.095229e+09 110008.30 \*  
## 657) sdbedrooms>=1.015773 10 6.728976e+09 134480.00 \*  
## 329) longitude< -117.805 289 7.957504e+11 190994.80   
## 658) longitude>=-118.115 213 2.777136e+11 182995.80   
## 1316) housingMedianAge>=29.5 95 6.362812e+10 173022.10   
## 2632) sdrooms< 4.023494 12 3.490889e+09 148208.30 \*  
## 2633) sdrooms>=4.023494 83 5.168031e+10 176609.60   
## 5266) longitude>=-118.06 66 2.940728e+10 172881.80   
## 10532) latitude>=33.91 38 1.297146e+10 164613.20 \*  
## 10533) latitude< 33.91 28 1.031175e+10 184103.60   
## 21066) sdrooms< 4.480016 9 1.607220e+09 170266.70 \*  
## 21067) sdrooms>=4.480016 19 6.165166e+09 190657.90 \*  
## 5267) longitude< -118.06 17 1.779504e+10 191082.40 \*  
## 1317) housingMedianAge< 29.5 118 1.970273e+11 191025.40   
## 2634) sdrooms< 4.706149 109 1.376454e+11 187000.90   
## 5268) housingMedianAge< 12.5 7 1.520577e+09 154542.90 \*  
## 5269) housingMedianAge>=12.5 102 1.282440e+11 189228.40   
## 10538) sdbedrooms< 1.117765 89 8.830347e+10 185121.30   
## 21076) medianIncome< 3.2458 13 1.350578e+10 166776.90 \*  
## 21077) medianIncome>=3.2458 76 6.967464e+10 188259.20   
## 42154) medianIncome>=3.36685 61 5.278098e+10 182793.40   
## 84308) latitude>=33.735 53 3.842713e+10 179239.60   
## 168616) housingMedianAge< 18.5 14 1.229136e+10 162200.00 \*  
## 168617) housingMedianAge>=18.5 39 2.061170e+10 185356.40   
## 337234) longitude>=-117.975 24 1.102635e+10 179583.30 \*  
## 337235) longitude< -117.975 15 7.505649e+09 194593.30 \*  
## 84309) latitude< 33.735 8 9.249899e+09 206337.50 \*  
## 42155) medianIncome< 3.36685 15 7.660417e+09 210486.70 \*  
## 10539) sdbedrooms>=1.117765 13 2.816143e+10 217346.20 \*  
## 2635) sdrooms>=4.706149 9 3.623512e+10 239766.70 \*  
## 659) longitude< -118.115 76 4.662117e+11 213413.20   
## 1318) latitude>=33.785 68 1.782371e+11 196814.70   
## 2636) latitude< 34.165 61 1.259166e+11 189691.80   
## 5272) longitude< -118.155 35 6.993705e+10 170697.10   
## 10544) latitude< 34.085 27 5.315075e+10 161611.10   
## 21088) latitude>=33.865 12 4.664480e+09 141600.00 \*  
## 21089) latitude< 33.865 15 3.983666e+10 177620.00 \*  
## 10545) latitude>=34.085 8 7.034379e+09 201362.50 \*  
## 5273) longitude>=-118.155 26 2.635258e+10 215261.50   
## 10546) latitude< 33.925 9 8.212002e+09 195944.40 \*  
## 10547) latitude>=33.925 17 1.300428e+10 225488.20 \*  
## 2637) latitude>=34.165 7 2.225597e+10 258885.70 \*  
## 1319) latitude< 33.785 8 1.099954e+11 354500.20 \*  
## 165) latitude< 33.695 107 1.152163e+12 228713.10   
## 330) longitude>=-117.245 52 1.977135e+11 173896.20   
## 660) longitude>=-117.17 29 3.298031e+10 144775.90   
## 1320) medianIncome< 3.93435 19 1.946358e+10 134189.50 \*  
## 1321) medianIncome>=3.93435 10 7.341589e+09 164890.00 \*  
## 661) longitude< -117.17 23 1.091344e+11 210613.00   
## 1322) housingMedianAge< 19.5 11 2.680245e+10 176736.40 \*  
## 1323) housingMedianAge>=19.5 12 5.813611e+10 241666.70 \*  
## 331) longitude< -117.245 55 6.504634e+11 280540.10   
## 662) population>=1288.5 18 9.820914e+10 217311.10 \*  
## 663) population< 1288.5 37 4.452834e+11 311300.10   
## 1326) housingMedianAge< 24.5 21 1.854718e+11 268414.30   
## 2652) sdbedrooms>=1.020008 14 1.206118e+11 248178.60 \*  
## 2653) sdbedrooms< 1.020008 7 4.766173e+10 308885.70 \*  
## 1327) housingMedianAge>=24.5 16 1.704960e+11 367587.60 \*  
## 83) longitude< -118.275 528 4.609120e+12 250774.30   
## 166) latitude>=34.165 373 2.428099e+12 227842.40   
## 332) longitude>=-122.025 247 9.915664e+11 207328.30   
## 664) latitude>=37.81 21 2.432888e+10 130309.50   
## 1328) population< 871 11 6.824987e+09 114354.50 \*  
## 1329) population>=871 10 1.162352e+10 147860.00 \*  
## 665) latitude< 37.81 226 8.310925e+11 214485.00   
## 1330) longitude>=-121.885 169 6.334884e+11 204911.20   
## 2660) latitude>=34.195 130 4.906195e+11 193506.20   
## 5320) longitude>=-118.455 33 2.087496e+10 162500.00   
## 10640) latitude>=34.225 26 6.888294e+09 153415.40 \*  
## 10641) latitude< 34.225 7 3.870817e+09 196242.90 \*  
## 5321) longitude< -118.455 97 4.272257e+11 204054.60   
## 10642) latitude>=36.68 44 1.897161e+11 181459.10   
## 21284) medianIncome< 3.7245 25 4.223929e+10 164088.00   
## 42568) longitude>=-121.76 7 6.309240e+09 122800.00 \*  
## 42569) longitude< -121.76 18 1.935658e+10 180144.40 \*  
## 21285) medianIncome>=3.7245 19 1.300068e+11 204315.80 \*  
## 10643) latitude< 36.68 53 1.963952e+11 222813.20   
## 21286) housingMedianAge< 17.5 21 4.222264e+10 196800.00   
## 42572) medianIncome< 3.62635 14 1.903415e+10 181557.10 \*  
## 42573) medianIncome>=3.62635 7 1.343001e+10 227285.70 \*  
## 21287) housingMedianAge>=17.5 32 1.306365e+11 239884.40   
## 42574) sdrooms>=4.294295 22 4.340820e+10 217672.70   
## 85148) sdbedrooms< 1.015178 8 1.821888e+10 196150.00 \*  
## 85149) sdbedrooms>=1.015178 14 1.936589e+10 229971.40 \*  
## 42575) sdrooms< 4.294295 10 5.249596e+10 288750.00 \*  
## 2661) latitude< 34.195 39 6.959272e+10 242928.20   
## 5322) longitude< -118.725 7 2.569234e+09 192071.40 \*  
## 5323) longitude>=-118.725 32 4.495816e+10 254053.10   
## 10646) sdrooms< 4.415581 17 2.359885e+10 237305.90 \*  
## 10647) sdrooms>=4.415581 15 1.118759e+10 273033.30 \*  
## 1331) longitude< -121.885 57 1.361882e+11 242870.20   
## 2662) population>=705.5 49 8.052254e+10 235928.60   
## 5324) latitude>=37.535 7 8.362660e+09 185400.00 \*  
## 5325) latitude< 37.535 42 5.130926e+10 244350.00   
## 10650) housingMedianAge< 20.5 15 1.115357e+10 224533.30 \*  
## 10651) housingMedianAge>=20.5 27 3.099269e+10 255359.30   
## 21302) latitude>=37.335 14 1.430859e+10 242864.30 \*  
## 21303) latitude< 37.335 13 1.214448e+10 268815.40 \*  
## 2663) population< 705.5 8 3.884275e+10 285387.50 \*  
## 333) longitude< -122.025 126 1.128825e+12 268056.40   
## 666) latitude>=37.6 66 5.008243e+11 229907.60   
## 1332) longitude>=-122.38 31 1.226178e+11 190109.70   
## 2664) latitude>=37.935 7 5.608154e+09 131728.60 \*  
## 2665) latitude< 37.935 24 8.619246e+10 207137.50   
## 5330) population< 637 7 8.928609e+09 166914.30 \*  
## 5331) population>=637 17 6.127512e+10 223700.00 \*  
## 1333) longitude< -122.38 35 2.856177e+11 265157.20   
## 2666) housingMedianAge< 20.5 12 7.302496e+10 206275.00 \*  
## 2667) housingMedianAge>=20.5 23 1.492803e+11 295878.30   
## 5334) latitude< 37.725 13 1.129915e+10 258953.80 \*  
## 5335) latitude>=37.725 10 9.721505e+10 343880.10 \*  
## 667) latitude< 37.6 60 4.262923e+11 310020.10   
## 1334) latitude>=37.385 46 3.088956e+11 296113.10   
## 2668) longitude>=-122.14 20 1.258742e+11 255170.00   
## 5336) housingMedianAge< 22.5 8 4.703294e+10 221137.50 \*  
## 5337) housingMedianAge>=22.5 12 6.339849e+10 277858.30 \*  
## 2669) longitude< -122.14 26 1.237049e+11 327607.80   
## 5338) longitude< -122.195 19 6.121385e+10 307684.30 \*  
## 5339) longitude>=-122.195 7 3.447799e+10 381685.90 \*  
## 1335) latitude< 37.385 14 7.926845e+10 355714.40 \*  
## 167) latitude< 34.165 155 1.512844e+12 305958.80   
## 334) latitude< 33.975 69 2.615319e+11 241089.90   
## 668) longitude>=-118.375 62 1.694119e+11 229827.40   
## 1336) latitude>=33.885 29 4.558870e+10 209393.10   
## 2672) sdbedrooms>=1.039514 11 1.673709e+10 188954.50 \*  
## 2673) sdbedrooms< 1.039514 18 2.144842e+10 221883.30 \*  
## 1337) latitude< 33.885 33 1.010724e+11 247784.80   
## 2674) longitude>=-118.305 15 2.421526e+10 207000.00 \*  
## 2675) longitude< -118.305 18 3.111358e+10 281772.20 \*  
## 669) longitude< -118.375 7 1.460110e+10 340842.90 \*  
## 335) latitude>=33.975 86 7.280065e+11 358004.80   
## 670) latitude>=34.115 23 1.170789e+11 296713.10   
## 1340) sdrooms< 4.517723 16 5.321110e+10 270818.80 \*  
## 1341) sdrooms>=4.517723 7 2.861775e+10 355900.10 \*  
## 671) latitude< 34.115 63 4.929801e+11 380381.10   
## 1342) sdrooms< 3.683052 14 8.449646e+10 313021.50 \*  
## 1343) sdrooms>=3.683052 49 3.268119e+11 399626.70   
## 2686) housingMedianAge>=27.5 33 2.023810e+11 374706.20   
## 5372) sdrooms< 4.504181 23 8.480436e+10 356908.70   
## 10744) latitude< 34.025 11 2.123041e+10 321636.40 \*  
## 10745) latitude>=34.025 12 3.734339e+10 389241.70 \*  
## 5373) sdrooms>=4.504181 10 9.353532e+10 415640.40 \*  
## 2687) housingMedianAge< 27.5 16 6.166772e+10 451025.30 \*  
## 21) medianIncome>=4.53095 1695 1.152506e+13 236935.90   
## 42) housingMedianAge< 17.5 582 2.854633e+12 208834.20   
## 84) sdbedrooms< 0.9968802 116 3.295839e+11 179403.40   
## 168) sdrooms>=5.537455 81 1.622563e+11 169446.90   
## 336) latitude>=34.025 62 1.187133e+11 161416.10   
## 672) longitude>=-120.135 24 2.545414e+10 134454.20   
## 1344) latitude>=34.915 14 4.640595e+09 116350.00 \*  
## 1345) latitude< 34.915 10 9.800780e+09 159800.00 \*  
## 673) longitude< -120.135 38 6.479345e+10 178444.70   
## 1346) latitude>=37.285 31 4.177477e+10 170303.20   
## 2692) longitude>=-122.53 24 1.567739e+10 160470.80   
## 5384) sdbedrooms>=0.9715218 17 4.837491e+09 152076.50 \*  
## 5385) sdbedrooms< 0.9715218 7 6.732777e+09 180857.10 \*  
## 2693) longitude< -122.53 7 1.582211e+10 204014.30 \*  
## 1347) latitude< 37.285 7 1.186400e+10 214500.00 \*  
## 337) latitude< 34.025 19 2.649633e+10 195652.60 \*  
## 169) sdrooms< 5.537455 35 1.407148e+11 202445.70   
## 338) medianIncome>=4.65315 28 4.384997e+10 189325.00   
## 676) population< 1563.5 18 1.670704e+10 171227.80 \*  
## 677) population>=1563.5 10 1.063646e+10 221900.00 \*  
## 339) medianIncome< 4.65315 7 7.276337e+10 254928.60 \*  
## 85) sdbedrooms>=0.9968802 466 2.399563e+12 216160.30   
## 170) medianIncome< 5.13225 263 1.213445e+12 203014.50   
## 340) sdrooms>=4.681349 250 1.014402e+12 198618.80   
## 680) housingMedianAge< 6.5 60 1.587808e+11 177041.70   
## 1360) latitude>=33.9 43 1.039883e+11 163507.00   
## 2720) longitude>=-121.89 36 4.359888e+10 151763.90   
## 5440) population< 1189.5 9 8.251776e+09 128022.20 \*  
## 5441) population>=1189.5 27 2.858311e+10 159677.80   
## 10882) sdrooms>=6.605683 12 3.920237e+09 144383.30 \*  
## 10883) sdrooms< 6.605683 15 1.961020e+10 171913.30 \*  
## 2721) longitude< -121.89 7 2.989380e+10 223900.00 \*  
## 1361) latitude< 33.9 17 2.699105e+10 211276.50 \*  
## 681) housingMedianAge>=6.5 190 8.188658e+11 205432.60   
## 1362) sdbedrooms< 1.078603 120 3.170058e+11 196326.70   
## 2724) latitude< 32.945 13 4.816191e+09 166761.50 \*  
## 2725) latitude>=32.945 107 2.994458e+11 199918.70   
## 5450) latitude>=33.855 85 2.522176e+11 194457.60   
## 10900) longitude>=-117.735 13 9.042397e+09 161815.40 \*  
## 10901) longitude< -117.735 72 2.268225e+11 200351.40   
## 21802) latitude>=34.5 59 1.845185e+11 192903.40   
## 43604) longitude>=-120.11 11 2.041968e+10 143127.30 \*  
## 43605) longitude< -120.11 48 1.305988e+11 204310.40   
## 87210) latitude>=37.245 40 7.475300e+10 191970.00   
## 174420) housingMedianAge< 10.5 9 5.989640e+09 163266.70 \*  
## 174421) housingMedianAge>=10.5 31 5.919571e+10 200303.20   
## 348842) population< 2044 21 3.447163e+10 187561.90   
## 697684) longitude< -121.83 9 8.992822e+09 173744.40 \*  
## 697685) longitude>=-121.83 12 2.247178e+10 197925.00 \*  
## 348843) population>=2044 10 1.415566e+10 227060.00 \*  
## 87211) latitude< 37.245 8 1.929715e+10 266012.50 \*  
## 21803) latitude< 34.5 13 2.417719e+10 234153.80 \*  
## 5451) latitude< 33.855 22 3.489907e+10 221018.20   
## 10902) latitude< 33.17 9 7.617062e+09 196744.40 \*  
## 10903) latitude>=33.17 13 1.830782e+10 237823.10 \*  
## 1363) sdbedrooms>=1.078603 70 4.748523e+11 221042.90   
## 2726) sdrooms>=5.041338 63 3.391586e+11 212501.60   
## 5452) latitude>=33.64 51 2.155541e+11 201047.10   
## 10904) population< 677 9 1.523684e+10 158533.30 \*  
## 10905) population>=677 42 1.805648e+11 210157.10   
## 21810) sdrooms>=6.385366 29 1.171235e+11 196069.00   
## 43620) population>=1189.5 19 4.819727e+10 177957.90 \*  
## 43621) population< 1189.5 10 5.085280e+10 230480.00 \*  
## 21811) sdrooms< 6.385366 13 4.484556e+10 241584.60 \*  
## 5453) latitude< 33.64 12 8.847406e+10 261183.30 \*  
## 2727) sdrooms< 5.041338 7 8.973307e+10 297914.30 \*  
## 341) sdrooms< 4.681349 13 1.013196e+11 287546.20 \*  
## 171) medianIncome>=5.13225 203 1.081784e+12 233191.60   
## 342) latitude>=35.305 81 2.327805e+11 209716.00   
## 684) longitude>=-120.28 11 7.436002e+09 136472.70 \*  
## 685) longitude< -120.28 70 1.570610e+11 221225.70   
## 1370) latitude>=37.97 38 5.934997e+10 198760.50   
## 2740) longitude>=-122.195 31 2.649210e+10 188625.80   
## 5480) longitude< -121.245 24 1.382238e+10 179125.00   
## 10960) housingMedianAge>=14.5 7 2.331597e+09 157942.90 \*  
## 10961) housingMedianAge< 14.5 17 7.056742e+09 187847.10 \*  
## 5481) longitude>=-121.245 7 3.075800e+09 221200.00 \*  
## 2741) longitude< -122.195 7 1.557282e+10 243642.90 \*  
## 1371) latitude< 37.97 32 5.575911e+10 247903.10   
## 2742) sdbedrooms< 1.043395 16 1.723974e+10 228087.50 \*  
## 2743) sdbedrooms>=1.043395 16 2.595428e+10 267718.80 \*  
## 343) latitude< 35.305 122 7.747265e+11 248777.90   
## 686) longitude>=-117.16 22 6.198839e+10 189936.40   
## 1372) latitude>=33.22 7 1.307874e+10 140357.10 \*  
## 1373) latitude< 33.22 15 2.367317e+10 213073.30 \*  
## 687) longitude< -117.16 100 6.198092e+11 261723.00   
## 1374) latitude>=33.655 69 2.896882e+11 246701.40   
## 2748) longitude>=-118.08 41 7.020015e+10 218385.40   
## 5496) longitude>=-117.775 24 3.063555e+10 201766.70   
## 10992) sdbedrooms< 1.069107 12 6.886542e+09 189275.00 \*  
## 10993) sdbedrooms>=1.069107 12 2.000401e+10 214258.30 \*  
## 5497) longitude< -117.775 17 2.357858e+10 241847.10 \*  
## 2749) longitude< -118.08 28 1.384776e+11 288164.30   
## 5498) latitude>=34.245 16 5.245826e+10 252887.50 \*  
## 5499) latitude< 34.245 12 3.955982e+10 335200.00 \*  
## 1375) latitude< 33.655 31 2.798961e+11 295158.20   
## 2750) sdrooms< 6.515847 21 1.607742e+11 266043.00   
## 5500) longitude>=-117.675 14 2.334543e+10 241257.10 \*  
## 5501) longitude< -117.675 7 1.116267e+11 315614.60 \*  
## 2751) sdrooms>=6.515847 10 6.393695e+10 356300.10 \*  
## 43) housingMedianAge>=17.5 1113 7.970486e+12 251630.60   
## 86) sdbedrooms< 1.037195 680 3.564380e+12 236370.30   
## 172) longitude>=-118.045 213 5.125158e+11 208727.20   
## 344) longitude>=-117.655 75 2.000370e+11 189129.30   
## 688) latitude>=33.635 18 4.696998e+09 146511.10 \*  
## 689) latitude< 33.635 57 1.523221e+11 202587.70   
## 1378) longitude>=-117.185 40 6.136827e+10 183267.50   
## 2756) sdrooms< 6.476461 30 3.667221e+10 172186.70   
## 5512) latitude< 32.71 8 1.194620e+09 150050.00 \*  
## 5513) latitude>=32.71 22 3.013179e+10 180236.40   
## 11026) longitude>=-117.015 10 1.335408e+10 160200.00 \*  
## 11027) longitude< -117.015 12 9.417687e+09 196933.30 \*  
## 2757) sdrooms>=6.476461 10 9.961869e+09 216510.00 \*  
## 1379) longitude< -117.185 17 4.089160e+10 248047.10 \*  
## 345) longitude< -117.655 138 2.680177e+11 219378.30   
## 690) latitude>=33.665 130 1.354943e+11 213087.70   
## 1380) sdrooms< 6.173471 108 8.095347e+10 205304.60   
## 2760) housingMedianAge>=29.5 68 3.579847e+10 195866.20   
## 5520) sdrooms< 5.099482 9 1.790736e+09 171222.20 \*  
## 5521) sdrooms>=5.099482 59 2.770803e+10 199625.40   
## 11042) latitude>=33.92 25 1.413277e+10 192112.00   
## 22084) latitude< 33.955 8 2.037950e+08 178075.00 \*  
## 22085) latitude>=33.955 17 1.161088e+10 198717.60 \*  
## 11043) latitude< 33.92 34 1.112626e+10 205150.00   
## 22086) housingMedianAge>=33.5 27 6.215741e+09 201218.50 \*  
## 22087) housingMedianAge< 33.5 7 2.883509e+09 220314.30 \*  
## 2761) housingMedianAge< 29.5 40 2.879910e+10 221350.00   
## 5522) longitude>=-117.92 22 1.438194e+10 209772.70   
## 11044) medianIncome< 4.98805 14 6.502309e+09 197392.90 \*  
## 11045) medianIncome>=4.98805 8 1.979079e+09 231437.50 \*  
## 5523) longitude< -117.92 18 7.864420e+09 235500.00 \*  
## 1381) sdrooms>=6.173471 22 1.588233e+10 251295.50   
## 2762) medianIncome< 5.15525 9 6.809049e+09 239011.10 \*  
## 2763) medianIncome>=5.15525 13 6.774880e+09 259800.00 \*  
## 691) latitude< 33.665 8 4.378480e+10 321600.00 \*  
## 173) longitude< -118.045 467 2.814867e+12 248978.40   
## 346) latitude>=37.995 52 1.788878e+11 187096.20   
## 692) longitude>=-122.325 42 1.136779e+11 172764.30   
## 1384) sdbedrooms< 0.9974227 19 2.925048e+10 153910.50 \*  
## 1385) sdbedrooms>=0.9974227 23 7.209435e+10 188339.10   
## 2770) housingMedianAge>=25.5 13 1.300567e+10 170030.80 \*  
## 2771) housingMedianAge< 25.5 10 4.906632e+10 212140.00 \*  
## 693) longitude< -122.325 10 2.034997e+10 247290.00 \*  
## 347) latitude< 37.995 415 2.411898e+12 256732.30   
## 694) medianIncome< 5.266 316 1.553646e+12 245938.30   
## 1388) longitude>=-121.915 201 9.588426e+11 234518.90   
## 2776) latitude>=33.815 185 7.296503e+11 229281.10   
## 5552) latitude>=34.625 49 2.409421e+11 204561.20   
## 11104) longitude>=-120.54 17 2.244561e+10 147223.50 \*  
## 11105) longitude< -120.54 32 1.329159e+11 235021.90   
## 22210) latitude>=37.275 17 3.238800e+10 204188.20 \*  
## 22211) latitude< 37.275 15 6.604865e+10 269966.70 \*  
## 5553) latitude< 34.625 136 4.479776e+11 238187.50   
## 11106) sdbedrooms< 0.9880641 53 9.974719e+10 222041.50   
## 22212) sdrooms< 5.643111 41 5.299742e+10 211487.80   
## 44424) sdrooms>=4.733107 34 3.639838e+10 204761.80   
## 88848) population< 1324 25 2.090133e+10 197896.00   
## 177696) population>=759 16 1.076690e+10 189443.80 \*  
## 177697) population< 759 9 6.959296e+09 212922.20 \*  
## 88849) population>=1324 9 1.104506e+10 223833.30 \*  
## 44425) sdrooms< 4.733107 7 7.589897e+09 244157.10 \*  
## 22213) sdrooms>=5.643111 12 2.658058e+10 258100.00 \*  
## 11107) sdbedrooms>=0.9880641 83 3.255910e+11 248497.60   
## 22214) population< 860.5 28 5.072447e+10 223003.60   
## 44428) sdrooms< 5.61768 19 1.127860e+10 205073.70 \*  
## 44429) sdrooms>=5.61768 9 2.044278e+10 260855.60 \*  
## 22215) population>=860.5 55 2.474034e+11 261476.40   
## 44430) sdrooms>=4.829172 46 1.483694e+11 251591.30   
## 88860) population>=1834 9 2.257722e+09 197055.60 \*  
## 88861) population< 1834 37 1.128334e+11 264856.80   
## 177722) population>=1002 29 7.180682e+10 252717.20   
## 355444) population< 1358 21 3.007533e+10 238095.20   
## 710888) latitude< 33.925 10 1.475541e+09 223570.00 \*  
## 710889) latitude>=33.925 11 2.457194e+10 251300.00 \*  
## 355445) population>=1358 8 2.545574e+10 291100.00 \*  
## 177723) population< 1002 8 2.126084e+10 308862.50 \*  
## 44431) sdrooms< 4.829172 9 7.156536e+10 312000.00 \*  
## 2777) latitude< 33.815 16 1.654320e+11 295081.30 \*  
## 1389) longitude< -121.915 115 5.227807e+11 265897.40   
## 2778) latitude>=37.46 77 2.097822e+11 243248.10   
## 5556) longitude>=-122.17 47 6.332288e+10 220931.90   
## 11112) sdbedrooms< 1.021966 37 2.891764e+10 212878.40   
## 22224) longitude< -122.085 9 1.338716e+09 186577.80 \*  
## 22225) longitude>=-122.085 28 1.935238e+10 221332.10   
## 44450) latitude>=37.925 8 1.882295e+09 197975.00 \*  
## 44451) latitude< 37.925 20 1.135986e+10 230675.00 \*  
## 11113) sdbedrooms>=1.021966 10 2.312618e+10 250730.00 \*  
## 5557) longitude< -122.17 30 8.638271e+10 278210.00   
## 11114) medianIncome< 4.73675 9 3.356714e+10 249433.30 \*  
## 11115) medianIncome>=4.73675 21 4.216861e+10 290542.90   
## 22230) sdrooms>=5.193224 12 1.548749e+10 272733.30 \*  
## 22231) sdrooms< 5.193224 9 1.780011e+10 314288.90 \*  
## 2779) latitude< 37.46 38 1.934576e+11 311792.20   
## 5558) longitude>=-122.075 31 4.626655e+10 284909.70   
## 11116) housingMedianAge>=34.5 7 2.156717e+09 254842.90 \*  
## 11117) housingMedianAge< 34.5 24 3.593604e+10 293679.20   
## 22234) sdbedrooms< 1.008898 13 1.262585e+10 278046.20 \*  
## 22235) sdbedrooms>=1.008898 11 1.637837e+10 312154.50 \*  
## 5559) longitude< -122.075 7 2.557635e+10 430843.10 \*  
## 695) medianIncome>=5.266 99 7.039169e+11 291185.90   
## 1390) housingMedianAge< 28.5 39 1.983562e+11 254094.90   
## 2780) sdrooms>=5.763916 28 8.338666e+10 235364.30   
## 5560) sdbedrooms>=0.9724993 18 3.114437e+10 219194.40 \*  
## 5561) sdbedrooms< 0.9724993 10 3.906452e+10 264470.00 \*  
## 2781) sdrooms< 5.763916 11 8.014110e+10 301772.80 \*  
## 1391) housingMedianAge>=28.5 60 4.170318e+11 315295.00   
## 2782) housingMedianAge>=33.5 43 2.575155e+11 298800.00   
## 5564) housingMedianAge< 36.5 35 1.671067e+11 281054.30   
## 11128) housingMedianAge< 35.5 22 6.841411e+10 263154.50   
## 22256) housingMedianAge>=34.5 14 2.425956e+10 249250.00 \*  
## 22257) housingMedianAge< 34.5 8 3.671111e+10 287487.50 \*  
## 11129) housingMedianAge>=35.5 13 7.971497e+10 311346.20 \*  
## 5565) housingMedianAge>=36.5 8 3.116613e+10 376437.60 \*  
## 2783) housingMedianAge< 33.5 17 1.182234e+11 357017.70 \*  
## 87) sdbedrooms>=1.037195 433 3.999062e+12 275595.90   
## 174) sdrooms>=5.460928 321 2.331834e+12 256810.90   
## 348) longitude>=-117.195 16 3.279023e+10 169193.80 \*  
## 349) longitude< -117.195 305 2.169772e+12 261407.20   
## 698) latitude>=37.625 65 2.374738e+11 222969.20   
## 1396) longitude>=-122.125 41 8.159288e+10 193536.60   
## 2792) latitude>=37.955 25 5.205300e+10 178440.00   
## 5584) medianIncome< 5.02585 18 1.268171e+10 166605.60 \*  
## 5585) medianIncome>=5.02585 7 3.036781e+10 208871.40 \*  
## 2793) latitude< 37.955 16 1.493959e+10 217125.00 \*  
## 1397) longitude< -122.125 24 5.968772e+10 273250.00   
## 2794) sdbedrooms< 1.127667 16 3.628110e+10 257287.50 \*  
## 2795) sdbedrooms>=1.127667 8 1.117616e+10 305175.00 \*  
## 699) latitude< 37.625 240 1.810252e+12 271817.50   
## 1398) sdbedrooms< 1.176465 213 1.387936e+12 264357.80   
## 2796) medianIncome< 4.7031 40 2.551327e+11 223232.60   
## 5592) medianIncome< 4.57915 14 2.049120e+10 193278.60 \*  
## 5593) medianIncome>=4.57915 26 2.153163e+11 239361.60   
## 11186) sdrooms< 6.323414 18 5.996364e+10 219250.00 \*  
## 11187) sdrooms>=6.323414 8 1.316908e+11 284612.80 \*  
## 2797) medianIncome>=4.7031 173 1.049510e+12 273866.50   
## 5594) longitude>=-122.07 161 9.477397e+11 269714.90   
## 11188) latitude>=37.315 11 4.321107e+09 213854.50 \*  
## 11189) latitude< 37.315 150 9.065773e+11 273811.40   
## 22378) longitude>=-121.855 139 8.435594e+11 269931.00   
## 44756) latitude>=34.675 13 4.174270e+10 208615.40 \*  
## 44757) latitude< 34.675 126 7.478992e+11 276257.20   
## 89514) longitude>=-119.235 116 6.064185e+11 268697.40   
## 179028) latitude>=33.885 66 3.279854e+11 255140.90   
## 358056) latitude< 34.125 22 9.864684e+10 220072.70   
## 716112) medianIncome< 5.085 12 3.549329e+10 194741.70 \*  
## 716113) medianIncome>=5.085 10 4.621366e+10 250470.00 \*  
## 358057) latitude>=34.125 44 1.887559e+11 272675.00   
## 716114) latitude>=34.175 33 2.917909e+10 245727.30   
## 1432228) population< 1374 22 1.499519e+10 238036.40   
## 2864456) medianIncome>=5.02795 14 8.059792e+09 229664.30 \*  
## 2864457) medianIncome< 5.02795 8 4.236869e+09 252687.50 \*  
## 1432229) population>=1374 11 1.027999e+10 261109.10 \*  
## 716115) latitude< 34.175 11 6.372085e+10 353518.30 \*  
## 179029) latitude< 33.885 50 2.502929e+11 286592.00   
## 358058) longitude>=-118.305 41 1.466345e+11 269409.80   
## 716116) latitude>=33.785 18 3.958382e+10 234688.90 \*  
## 716117) latitude< 33.785 23 6.836857e+10 296582.60   
## 1432234) sdrooms>=6.248684 10 1.217704e+10 266340.00 \*  
## 1432235) sdrooms< 6.248684 13 4.000987e+10 319846.20 \*  
## 358059) longitude< -118.305 9 3.641155e+10 364866.80 \*  
## 89515) longitude< -119.235 10 5.795071e+10 363950.20 \*  
## 22379) longitude< -121.855 11 3.447713e+10 322845.50 \*  
## 5595) longitude< -122.07 12 6.176547e+10 329566.70 \*  
## 1399) sdbedrooms>=1.176465 27 3.169549e+11 330666.90   
## 2798) longitude>=-117.905 8 6.580399e+10 251687.50 \*  
## 2799) longitude< -117.905 19 1.802376e+11 363921.30 \*  
## 175) sdrooms< 5.460928 112 1.229308e+12 329435.00   
## 350) sdbedrooms< 1.126514 98 9.080385e+11 314247.00   
## 700) longitude>=-118.16 16 7.029095e+10 235131.20 \*  
## 701) longitude< -118.16 82 7.180574e+11 329684.20   
## 1402) latitude>=34.125 50 3.069325e+11 299584.00   
## 2804) longitude>=-122.01 26 1.003807e+11 261569.20   
## 5608) sdrooms< 5.213483 16 1.798388e+10 234418.80 \*  
## 5609) sdrooms>=5.213483 10 5.173143e+10 305010.00 \*  
## 2805) longitude< -122.01 24 1.282742e+11 340766.70   
## 5610) sdrooms>=5.094765 14 6.312341e+10 315357.10 \*  
## 5611) sdrooms< 5.094765 10 4.345709e+10 376340.10 \*  
## 1403) latitude< 34.125 32 2.950406e+11 376715.80   
## 2806) longitude>=-118.385 18 8.390050e+10 318300.00 \*  
## 2807) longitude< -118.385 14 7.074382e+10 451821.90 \*  
## 351) sdbedrooms>=1.126514 14 1.404209e+11 435750.60 \*  
## 11) housingMedianAge>=38.5 1240 1.431411e+13 269995.90   
## 22) longitude>=-122.335 943 9.913258e+12 250641.00   
## 44) medianIncome< 4.12755 540 4.613620e+12 218742.20   
## 88) latitude>=37.61 132 4.010006e+11 174050.00   
## 176) longitude>=-122.225 88 1.683337e+11 152243.20   
## 352) latitude>=37.735 65 1.188520e+11 141026.20   
## 704) housingMedianAge< 45.5 29 2.011305e+10 125186.20   
## 1408) sdrooms< 5.248094 10 2.621485e+09 106150.00 \*  
## 1409) sdrooms>=5.248094 19 1.196055e+10 135205.30 \*  
## 705) housingMedianAge>=45.5 36 8.560136e+10 153786.10   
## 1410) sdrooms< 4.930598 7 4.444989e+09 120285.70 \*  
## 1411) sdrooms>=4.930598 29 7.140418e+10 161872.40   
## 2822) latitude>=37.885 18 2.459822e+10 138944.40 \*  
## 2823) latitude< 37.885 11 2.185949e+10 199390.90 \*  
## 353) latitude< 37.735 23 1.819038e+10 183943.50   
## 706) sdrooms< 5.035502 8 5.023080e+09 163400.00 \*  
## 707) sdrooms>=5.035502 15 7.990340e+09 194900.00 \*  
## 177) longitude< -122.225 44 1.071250e+11 217663.60   
## 354) longitude< -122.295 8 7.836549e+09 166012.50 \*  
## 355) longitude>=-122.295 36 7.320293e+10 229141.70   
## 710) population< 859 23 4.104748e+10 216147.80   
## 1420) latitude< 37.875 13 1.331623e+10 198361.50 \*  
## 1421) latitude>=37.875 10 1.827232e+10 239270.00 \*  
## 711) population>=859 13 2.140165e+10 252130.80 \*  
## 89) latitude< 37.61 408 3.863663e+12 233201.50   
## 178) sdbedrooms< 0.9932567 86 2.532526e+11 179181.40   
## 356) medianIncome< 4.03055 78 2.068991e+11 173594.90   
## 712) sdrooms>=4.429548 45 8.135556e+10 158633.30   
## 1424) longitude>=-117.775 7 5.386017e+09 122657.10 \*  
## 1425) longitude< -117.775 38 6.524059e+10 165260.50   
## 2850) latitude>=34.79 8 2.613862e+10 137400.00 \*  
## 2851) latitude< 34.79 30 3.123639e+10 172690.00   
## 5702) latitude< 33.995 14 8.283669e+09 156571.40 \*  
## 5703) latitude>=33.995 16 1.613275e+10 186793.80 \*  
## 713) sdrooms< 4.429548 33 1.017343e+11 193997.00   
## 1426) latitude< 34.055 16 1.739564e+10 158587.50 \*  
## 1427) latitude>=34.055 17 4.539615e+10 227323.50 \*  
## 357) medianIncome>=4.03055 8 2.018450e+10 233650.00 \*  
## 179) sdbedrooms>=0.9932567 322 3.292420e+12 247629.20   
## 358) longitude>=-118.325 183 1.454579e+12 223349.70   
## 716) latitude>=33.775 161 9.820275e+11 210852.20   
## 1432) latitude< 34.085 91 3.972871e+11 181638.50   
## 2864) latitude>=33.845 72 2.349023e+11 169708.30   
## 5728) sdrooms>=4.266443 65 8.757178e+10 161476.90   
## 11456) longitude< -118.165 33 1.679499e+10 145169.70   
## 22912) longitude< -118.225 15 8.183564e+09 133120.00 \*  
## 22913) longitude>=-118.225 18 4.618558e+09 155211.10 \*  
## 11457) longitude>=-118.165 32 5.295146e+10 178293.80   
## 22914) longitude>=-117.925 8 1.158748e+10 143962.50 \*  
## 22915) longitude< -117.925 24 2.879188e+10 189737.50   
## 45830) sdrooms< 4.940405 9 4.084762e+09 168555.60 \*  
## 45831) sdrooms>=4.940405 15 1.824620e+10 202446.70 \*  
## 5729) sdrooms< 4.266443 7 1.020305e+11 246143.00 \*  
## 2865) latitude< 33.845 19 1.133042e+11 226847.40 \*  
## 1433) latitude>=34.085 70 4.061153e+11 248830.00   
## 2866) population< 677.5 10 2.658412e+10 194280.00 \*  
## 2867) population>=677.5 60 3.448146e+11 257921.70   
## 5734) population>=796 53 2.684627e+11 248171.70   
## 11468) latitude>=34.175 10 1.365135e+10 192490.00 \*  
## 11469) latitude< 34.175 43 2.165965e+11 261120.90   
## 22938) sdrooms< 4.640864 13 2.683019e+10 209053.80 \*  
## 22939) sdrooms>=4.640864 30 1.392517e+11 283683.30   
## 45878) population< 1152.5 15 7.818168e+10 260600.00 \*  
## 45879) population>=1152.5 15 4.508483e+10 306766.70 \*  
## 5735) population< 796 7 3.316664e+10 331742.90 \*  
## 717) latitude< 33.775 22 2.633792e+11 314809.10   
## 1434) longitude>=-117.165 7 7.427402e+10 218657.10 \*  
## 1435) longitude< -117.165 15 9.418776e+10 359680.10 \*  
## 359) longitude< -118.325 139 1.587938e+12 279594.30   
## 718) latitude>=34.155 73 4.642964e+11 233949.30   
## 1436) longitude>=-121.915 49 1.520747e+11 199446.90   
## 2872) sdrooms>=5.74618 11 6.183989e+10 139763.60 \*  
## 2873) sdrooms< 5.74618 38 3.970925e+10 216723.70   
## 5746) medianIncome< 3.4479 15 1.079309e+10 198426.70 \*  
## 5747) medianIncome>=3.4479 23 2.061942e+10 228656.50   
## 11494) medianIncome>=3.9222 7 4.601469e+09 213885.70 \*  
## 11495) medianIncome< 3.9222 16 1.382254e+10 235118.80 \*  
## 1437) longitude< -121.915 24 1.348003e+11 304391.70   
## 2874) housingMedianAge< 42.5 10 2.250658e+10 268420.00 \*  
## 2875) housingMedianAge>=42.5 14 9.011148e+10 330085.80 \*  
## 719) latitude< 34.155 66 8.033245e+11 330080.40   
## 1438) latitude< 34.055 43 3.635150e+11 283781.40   
## 2876) longitude>=-118.365 18 5.134388e+10 204661.10 \*  
## 2877) longitude< -118.365 25 1.183607e+11 340748.10   
## 5754) longitude>=-118.44 14 3.302603e+10 303792.90 \*  
## 5755) longitude< -118.44 11 4.188097e+10 387782.00 \*  
## 1439) latitude>=34.055 23 1.753082e+11 416639.40   
## 2878) medianIncome< 3.3729 7 6.947404e+10 338500.10 \*  
## 2879) medianIncome>=3.3729 16 4.439506e+10 450825.40 \*  
## 45) medianIncome>=4.12755 403 4.013916e+12 293383.70   
## 90) latitude>=33.78 371 3.499740e+12 285448.60   
## 180) longitude>=-118.335 147 8.070054e+11 244423.80   
## 360) latitude< 34.085 74 1.690983e+11 207775.70   
## 720) latitude>=33.845 43 4.378660e+10 185595.30   
## 1440) longitude>=-118.105 14 3.266669e+09 164271.40 \*  
## 1441) longitude< -118.105 29 3.108079e+10 195889.70   
## 2882) longitude< -118.165 15 1.818509e+10 181226.70 \*  
## 2883) longitude>=-118.165 14 6.215240e+09 211600.00 \*  
## 721) latitude< 33.845 31 7.481366e+10 238541.90   
## 1442) medianIncome>=4.24555 24 4.495684e+10 228208.30   
## 2884) latitude< 33.825 13 1.136373e+10 212161.50 \*  
## 2885) latitude>=33.825 11 2.628948e+10 247172.70 \*  
## 1443) medianIncome< 4.24555 7 1.850727e+10 273971.40 \*  
## 361) latitude>=34.085 73 4.377690e+11 281574.00   
## 722) sdrooms< 6.157644 63 2.989738e+11 266479.30   
## 1444) longitude>=-118.025 9 5.281102e+10 197333.20 \*  
## 1445) longitude< -118.025 54 1.959603e+11 278003.70   
## 2890) medianIncome< 5.12685 42 1.325826e+11 265759.50   
## 5780) latitude>=34.175 11 1.620626e+10 216318.20 \*  
## 5781) latitude< 34.175 31 7.994621e+10 283303.20   
## 11562) medianIncome>=4.2391 24 5.311898e+10 274362.50   
## 23124) medianIncome< 4.6813 14 2.544982e+10 260721.40 \*  
## 23125) medianIncome>=4.6813 10 2.141690e+10 293460.00 \*  
## 11563) medianIncome< 4.2391 7 1.833112e+10 313957.10 \*  
## 2891) medianIncome>=5.12685 12 3.504283e+10 320858.30 \*  
## 723) sdrooms>=6.157644 10 3.400828e+10 376670.00 \*  
## 181) longitude< -118.335 224 2.282969e+12 312371.10   
## 362) latitude>=34.165 144 1.082778e+12 278272.90   
## 724) latitude>=37.65 70 3.747685e+11 244768.60   
## 1448) longitude>=-122.21 33 1.050589e+11 205206.10   
## 2896) sdrooms< 5.531718 9 1.106442e+10 153766.70 \*  
## 2897) sdrooms>=5.531718 24 6.125013e+10 224495.80   
## 5794) latitude>=37.75 17 2.304202e+10 212670.60 \*  
## 5795) latitude< 37.75 7 3.005765e+10 253214.30 \*  
## 1449) longitude< -122.21 37 1.719908e+11 280054.10   
## 2898) latitude>=37.915 7 1.787020e+10 200457.10 \*  
## 2899) latitude< 37.915 30 9.942264e+10 298626.70   
## 5798) medianIncome< 4.6641 10 1.193100e+10 255860.00 \*  
## 5799) medianIncome>=4.6641 20 6.005682e+10 320010.00   
## 11598) sdbedrooms< 1.031513 10 1.446080e+10 292470.00 \*  
## 11599) sdbedrooms>=1.031513 10 3.042698e+10 347550.00 \*  
## 725) latitude< 37.65 74 5.551015e+11 309966.30   
## 1450) longitude>=-122.13 48 2.941723e+11 278620.80   
## 2900) medianIncome< 4.5324 22 1.341598e+11 248436.40   
## 5800) population< 990.5 15 3.944541e+10 226526.70 \*  
## 5801) population>=990.5 7 7.208417e+10 295385.70 \*  
## 2901) medianIncome>=4.5324 26 1.230077e+11 304161.50   
## 5802) population< 673 12 3.403405e+10 277266.70 \*  
## 5803) population>=673 14 7.285366e+10 327214.30 \*  
## 1451) longitude< -122.13 26 1.266998e+11 367834.70   
## 2902) sdrooms< 5.734306 18 6.218881e+10 344677.80 \*  
## 2903) sdrooms>=5.734306 8 3.314066e+10 419937.90 \*  
## 363) latitude< 34.165 80 7.313970e+11 373747.70   
## 726) latitude< 34.005 38 2.773166e+11 318392.20   
## 1452) latitude>=33.885 31 1.044516e+11 288351.60   
## 2904) longitude>=-118.38 15 3.757248e+10 245213.30 \*  
## 2905) longitude< -118.38 16 1.279635e+10 328793.80 \*  
## 1453) latitude< 33.885 7 2.099795e+10 451429.00 \*  
## 727) latitude>=34.005 42 2.322885e+11 423831.20   
## 1454) sdrooms< 5.23154 17 9.164369e+10 375758.90 \*  
## 1455) sdrooms>=5.23154 25 7.464400e+10 456520.40   
## 2910) medianIncome>=4.32735 18 5.766472e+10 440339.20 \*  
## 2911) medianIncome< 4.32735 7 1.471167e+08 498129.40 \*  
## 91) latitude< 33.78 32 2.199808e+11 385381.50   
## 182) medianIncome< 4.72885 17 9.063471e+10 349505.90 \*  
## 183) medianIncome>=4.72885 15 8.266892e+10 426040.40 \*  
## 23) longitude< -122.335 297 2.925968e+12 331449.30   
## 46) housingMedianAge< 49.5 130 9.129068e+11 283444.70   
## 92) latitude>=38.235 13 3.345153e+10 164738.50 \*  
## 93) latitude< 38.235 117 6.759163e+11 296634.20   
## 186) latitude< 37.745 61 1.873334e+11 268159.00   
## 372) latitude>=37.63 53 9.266374e+10 256892.50   
## 744) longitude>=-122.465 38 3.008744e+10 245468.40   
## 1488) medianIncome< 4.59465 31 1.038053e+10 239319.40   
## 2976) longitude>=-122.415 12 3.214949e+09 228958.30 \*  
## 2977) longitude< -122.415 19 5.063764e+09 245863.20 \*  
## 1489) medianIncome>=4.59465 7 1.334386e+10 272700.00 \*  
## 745) longitude< -122.465 15 4.505335e+10 285833.30 \*  
## 373) latitude< 37.63 8 4.337188e+10 342800.00 \*  
## 187) latitude>=37.745 56 3.852445e+11 327651.90   
## 374) latitude>=37.925 18 1.318549e+11 285894.40 \*  
## 375) latitude< 37.925 38 2.071361e+11 347431.70   
## 750) latitude< 37.77 24 2.099896e+10 310450.00   
## 1500) longitude< -122.495 9 1.001336e+09 277477.80 \*  
## 1501) longitude>=-122.495 15 4.342413e+09 330233.30 \*  
## 751) latitude>=37.77 14 9.704468e+10 410828.90 \*  
## 47) housingMedianAge>=49.5 167 1.480279e+12 368818.10   
## 94) latitude< 37.775 106 5.914176e+11 332400.10   
## 188) latitude< 37.745 46 2.506451e+11 304667.50   
## 376) sdrooms< 5.991453 39 7.433487e+10 282766.70   
## 752) medianIncome< 3.83585 12 6.054077e+09 257116.70 \*  
## 753) medianIncome>=3.83585 27 5.687680e+10 294166.70   
## 1506) sdrooms< 5.228452 16 2.679471e+10 278868.80 \*  
## 1507) sdrooms>=5.228452 11 2.089124e+10 316418.20 \*  
## 377) sdrooms>=5.991453 7 5.338413e+10 426686.10 \*  
## 189) latitude>=37.745 60 2.782706e+11 353661.70   
## 378) longitude>=-122.415 10 1.139732e+10 263450.00 \*  
## 379) longitude< -122.415 50 1.692154e+11 371704.10   
## 758) longitude< -122.465 17 8.454599e+09 338864.70 \*  
## 759) longitude>=-122.465 33 1.329833e+11 388621.30   
## 1518) sdrooms< 4.619405 13 3.121110e+10 354784.60 \*  
## 1519) sdrooms>=4.619405 20 7.721362e+10 410615.20   
## 3038) longitude>=-122.435 7 2.374048e+10 371957.10 \*  
## 3039) longitude< -122.435 13 3.737916e+10 431431.00 \*  
## 95) latitude>=37.775 61 5.039807e+11 432102.00   
## 190) latitude>=37.845 7 6.567256e+10 249857.10 \*  
## 191) latitude< 37.845 54 1.756778e+11 455726.40   
## 382) latitude< 37.785 14 3.398926e+10 402985.70 \*  
## 383) latitude>=37.785 40 8.911682e+10 474185.60   
## 766) longitude>=-122.415 10 4.522398e+10 424580.40 \*  
## 767) longitude< -122.415 30 1.108386e+10 490720.60 \*  
## 3) medianIncome>=5.59205 2116 2.336424e+13 362007.60   
## 6) medianIncome< 7.7457 1539 1.385027e+13 328380.10   
## 12) housingMedianAge< 27.5 973 6.306845e+12 299100.00   
## 24) medianIncome< 6.5845 632 3.633959e+12 279248.90   
## 48) sdbedrooms< 1.093678 545 2.537674e+12 271357.10   
## 96) latitude>=37.955 74 2.358476e+11 229936.50   
## 192) longitude>=-122.38 62 8.837625e+10 213901.60   
## 384) population< 2304 55 7.077079e+10 209261.80   
## 768) housingMedianAge< 8.5 7 1.462754e+09 180028.60 \*  
## 769) housingMedianAge>=8.5 48 6.245357e+10 213525.00   
## 1538) longitude>=-122.1 35 4.881560e+10 206934.30   
## 3076) longitude< -121.345 22 2.262835e+10 192868.20   
## 6152) longitude>=-121.965 10 6.600965e+09 172150.00 \*  
## 6153) longitude< -121.965 12 8.157927e+09 210133.30 \*  
## 3077) longitude>=-121.345 13 1.446813e+10 230738.50 \*  
## 1539) longitude< -122.1 13 8.024508e+09 231269.20 \*  
## 385) population>=2304 7 7.118397e+09 250357.10 \*  
## 193) longitude< -122.38 12 4.916688e+10 312783.30 \*  
## 97) latitude< 37.955 471 2.154920e+12 277864.80   
## 194) longitude>=-122.025 431 1.675905e+12 270950.80   
## 388) medianIncome< 6.25165 315 1.200429e+12 262097.50   
## 776) longitude>=-117.725 78 3.926060e+11 236755.10   
## 1552) latitude>=33.78 27 6.408424e+10 184529.60   
## 3104) latitude>=34.14 7 3.495269e+09 126814.30 \*  
## 3105) latitude< 34.14 20 2.911044e+10 204730.00   
## 6210) longitude>=-117.64 9 6.659136e+09 178877.80 \*  
## 6211) longitude< -117.64 11 1.151488e+10 225881.80 \*  
## 1553) latitude< 33.78 51 2.158919e+11 264403.90   
## 3106) longitude>=-117.04 11 2.235849e+10 214290.90 \*  
## 3107) longitude< -117.04 40 1.583122e+11 278185.00   
## 6214) sdrooms< 6.592434 30 4.421111e+10 259546.70   
## 12428) sdbedrooms< 1.061819 23 1.828723e+10 251295.70   
## 24856) population< 1722 12 7.062510e+09 238850.00 \*  
## 24857) population>=1722 11 7.338282e+09 264872.70 \*  
## 12429) sdbedrooms>=1.061819 7 1.921322e+10 286657.10 \*  
## 6215) sdrooms>=6.592434 10 7.241451e+10 334100.10 \*  
## 777) longitude< -117.725 237 7.412425e+11 270438.00   
## 1554) latitude>=34.255 114 3.116776e+11 258169.30   
## 3108) longitude>=-121.44 41 1.656804e+11 232678.00   
## 6216) latitude>=35.145 10 6.003469e+09 151890.00 \*  
## 6217) latitude< 35.145 31 7.335595e+10 258738.70   
## 12434) longitude>=-118.825 24 2.211286e+10 245550.00   
## 24868) sdbedrooms< 1.019435 11 3.669080e+09 228000.00 \*  
## 24869) sdbedrooms>=1.019435 13 1.218896e+10 260400.00 \*  
## 12435) longitude< -118.825 7 3.275554e+10 303957.10 \*  
## 3109) longitude< -121.44 73 1.043920e+11 272486.30   
## 6218) sdrooms< 6.350071 35 3.976289e+10 255351.40   
## 12436) longitude>=-121.93 26 1.422760e+10 244965.40 \*  
## 12437) longitude< -121.93 9 1.462844e+10 285355.60 \*  
## 6219) sdrooms>=6.350071 38 4.488810e+10 288268.40   
## 12438) sdbedrooms< 1.032217 24 1.889435e+10 275733.30   
## 24876) latitude>=37.6 9 2.866309e+09 258288.90 \*  
## 24877) latitude< 37.6 15 1.164600e+10 286200.00 \*  
## 12439) sdbedrooms>=1.032217 14 1.575795e+10 309757.10 \*  
## 1555) latitude< 34.255 123 3.965017e+11 281809.00   
## 3110) housingMedianAge>=25.5 29 3.228484e+10 250831.00   
## 6220) medianIncome< 5.7229 7 2.387571e+08 224242.90 \*  
## 6221) medianIncome>=5.7229 22 2.552304e+10 259290.90   
## 12442) population>=1641.5 8 5.494939e+09 239962.50 \*  
## 12443) population< 1641.5 14 1.533157e+10 270335.70 \*  
## 3111) housingMedianAge< 25.5 94 3.278019e+11 291366.00   
## 6222) longitude>=-118.045 58 1.079984e+11 278062.10   
## 12444) sdbedrooms>=1.027999 23 1.639308e+10 261147.80   
## 24888) sdrooms< 6.641295 15 9.872584e+09 253020.00 \*  
## 24889) sdrooms>=6.641295 8 3.671589e+09 276387.50 \*  
## 12445) sdbedrooms< 1.027999 35 8.070112e+10 289177.10   
## 24890) longitude>=-117.87 10 6.713369e+09 264090.00 \*  
## 24891) longitude< -117.87 25 6.517665e+10 299212.00   
## 49782) sdbedrooms< 1.002242 14 1.142613e+10 283735.70 \*  
## 49783) sdbedrooms>=1.002242 11 4.612957e+10 318909.10 \*  
## 6223) longitude< -118.045 36 1.929988e+11 312800.10   
## 12446) sdrooms>=5.795841 23 5.657078e+10 292300.00   
## 24892) medianIncome< 5.9985 12 1.600401e+10 265933.30 \*  
## 24893) medianIncome>=5.9985 11 2.312355e+10 321063.60 \*  
## 12447) sdrooms< 5.795841 13 1.096612e+11 349069.40 \*  
## 389) medianIncome>=6.25165 116 3.837384e+11 294992.30   
## 778) population< 712.5 11 3.943913e+10 245190.90 \*  
## 779) population>=712.5 105 3.141593e+11 300209.50   
## 1558) sdbedrooms>=1.082185 7 1.568065e+10 250471.40 \*  
## 1559) sdbedrooms< 1.082185 98 2.799245e+11 303762.30   
## 3118) sdbedrooms< 1.050412 86 2.018957e+11 296291.90   
## 6236) medianIncome< 6.5507 76 1.313007e+11 290792.10   
## 12472) sdrooms< 6.430081 24 2.225987e+10 274283.30   
## 24944) sdrooms>=6.050037 12 4.606977e+09 259083.30 \*  
## 24945) sdrooms< 6.050037 12 1.210794e+10 289483.30 \*  
## 12473) sdrooms>=6.430081 52 9.948101e+10 298411.50   
## 24946) latitude>=37.675 7 9.252037e+09 265757.10 \*  
## 24947) latitude< 37.675 45 8.160372e+10 303491.10   
## 49894) latitude< 33.04 7 7.437569e+09 273185.70 \*  
## 49895) latitude>=33.04 38 6.655295e+10 309073.70   
## 99790) longitude< -117.685 31 3.070315e+10 302619.40   
## 199580) longitude>=-117.955 10 3.908289e+09 284390.00 \*  
## 199581) longitude< -117.955 21 2.188934e+10 311300.00 \*  
## 99791) longitude>=-117.685 7 2.883930e+10 337657.10 \*  
## 6237) medianIncome>=6.5507 10 5.082523e+10 338090.10 \*  
## 3119) sdbedrooms>=1.050412 12 3.883387e+10 357300.10 \*  
## 195) longitude< -122.025 40 2.364157e+11 352362.50   
## 390) latitude>=37.565 20 8.276656e+10 315125.00   
## 780) sdrooms< 6.37684 12 3.019779e+10 279466.70 \*  
## 781) sdrooms>=6.37684 8 1.442327e+10 368612.50 \*  
## 391) latitude< 37.565 20 9.818378e+10 389600.00   
## 782) population>=1977.5 8 3.088926e+10 349937.50 \*  
## 783) population< 1977.5 12 4.631962e+10 416041.80 \*  
## 49) sdbedrooms>=1.093678 87 8.497084e+11 328686.40   
## 98) sdrooms>=8.344647 16 1.101885e+11 249256.30 \*  
## 99) sdrooms< 8.344647 71 6.158253e+11 346586.10   
## 198) medianIncome< 5.71085 11 2.546789e+10 265909.10 \*  
## 199) medianIncome>=5.71085 60 5.056348e+11 361376.90   
## 398) sdrooms>=6.026242 49 3.787446e+11 344945.00   
## 796) longitude>=-121.93 42 2.914595e+11 331150.10   
## 1592) latitude>=34.12 26 1.375309e+11 308019.20   
## 3184) longitude>=-118.855 7 1.986636e+10 256457.10 \*  
## 3185) longitude< -118.855 19 9.219751e+10 327015.80 \*  
## 1593) latitude< 34.12 16 1.174123e+11 368737.80 \*  
## 797) longitude< -121.93 7 3.133672e+10 427714.70 \*  
## 399) sdrooms< 6.026242 11 5.472528e+10 434573.20 \*  
## 25) medianIncome>=6.5845 341 1.962253e+12 335891.60   
## 50) longitude>=-122.025 290 1.559502e+12 326502.80   
## 100) sdbedrooms< 1.052615 213 7.470555e+11 314391.60   
## 200) sdbedrooms< 0.956091 36 1.198797e+11 285041.70   
## 400) latitude>=33.885 21 7.799177e+10 265204.80   
## 800) longitude>=-121.155 11 3.602585e+10 226509.10 \*  
## 801) longitude< -121.155 10 7.377021e+09 307770.00 \*  
## 401) latitude< 33.885 15 2.205538e+10 312813.30 \*  
## 201) sdbedrooms>=0.956091 177 5.898574e+11 320361.00   
## 402) longitude>=-117.89 63 1.525431e+11 299903.20   
## 804) latitude>=33.545 49 7.176662e+10 290589.80   
## 1608) latitude>=33.935 10 2.621585e+10 265710.00 \*  
## 1609) latitude< 33.935 39 3.777354e+10 296969.20   
## 3218) medianIncome< 6.79415 8 1.598429e+09 271987.50 \*  
## 3219) medianIncome>=6.79415 31 2.989398e+10 303416.10   
## 6438) longitude< -117.805 9 2.237996e+09 285122.20 \*  
## 6439) longitude>=-117.805 22 2.341180e+10 310900.00   
## 12878) longitude>=-117.765 13 7.083260e+09 294300.00 \*  
## 12879) longitude< -117.765 9 7.571856e+09 334877.80 \*  
## 805) latitude< 33.545 14 6.165048e+10 332500.10 \*  
## 403) longitude< -117.89 114 3.963761e+11 331666.70   
## 806) latitude>=37.375 32 5.583698e+10 298859.40   
## 1612) longitude>=-121.865 11 6.123476e+09 261481.80 \*  
## 1613) longitude< -121.865 21 2.629575e+10 318438.10   
## 3226) sdbedrooms>=1.015711 8 1.061885e+10 299412.50 \*  
## 3227) sdbedrooms< 1.015711 13 1.099909e+10 330146.20 \*  
## 807) latitude< 37.375 82 2.926560e+11 344469.60   
## 1614) medianIncome< 6.80935 26 1.023610e+11 321127.00   
## 3228) sdrooms>=6.71507 19 4.799825e+10 305878.90 \*  
## 3229) sdrooms< 6.71507 7 3.795476e+10 362514.40 \*  
## 1615) medianIncome>=6.80935 56 1.695507e+11 355307.20   
## 3230) population< 1161.5 16 5.922617e+10 324268.80 \*  
## 3231) population>=1161.5 40 8.874470e+10 367722.60   
## 6462) population>=1595 27 3.614074e+10 355196.30   
## 12924) latitude< 33.875 9 5.840429e+09 332511.10 \*  
## 12925) latitude>=33.875 18 2.335295e+10 366538.90 \*  
## 6463) population< 1595 13 3.956864e+10 393738.60 \*  
## 101) sdbedrooms>=1.052615 77 6.947765e+11 360005.40   
## 202) longitude>=-117.195 9 2.706260e+10 269444.40 \*  
## 203) longitude< -117.195 68 5.841332e+11 371991.40   
## 406) sdbedrooms< 1.292409 60 4.768290e+11 360528.50   
## 812) latitude>=37.265 11 1.546718e+10 303500.00 \*  
## 813) latitude< 37.265 49 4.175560e+11 373330.80   
## 1626) sdrooms>=6.848211 39 3.023021e+11 354995.00   
## 3252) housingMedianAge< 22.5 32 1.911690e+11 339581.30   
## 6504) medianIncome< 6.88295 12 7.435552e+10 302175.10 \*  
## 6505) medianIncome>=6.88295 20 8.994833e+10 362025.10   
## 13010) medianIncome>=7.3323 13 3.605203e+10 335738.50 \*  
## 13011) medianIncome< 7.3323 7 2.823105e+10 410843.10 \*  
## 3253) housingMedianAge>=22.5 7 6.877564e+10 425457.60 \*  
## 1627) sdrooms< 6.848211 10 5.100574e+10 444840.50 \*  
## 407) sdbedrooms>=1.292409 8 4.029116e+10 457963.10 \*  
## 51) longitude< -122.025 51 2.318290e+11 389278.60   
## 102) medianIncome< 7.2566 34 1.271108e+11 365308.90   
## 204) population< 1182.5 15 3.372693e+10 327766.70 \*  
## 205) population>=1182.5 19 5.555211e+10 394947.50 \*  
## 103) medianIncome>=7.2566 17 4.611453e+10 437217.90 \*  
## 13) housingMedianAge>=27.5 566 5.275240e+12 378714.90   
## 26) medianIncome< 6.23215 274 2.414807e+12 340410.70   
## 52) sdbedrooms< 1.042401 186 1.411058e+12 320110.30   
## 104) longitude>=-122.1 138 9.757079e+11 299227.60   
## 208) housingMedianAge< 39.5 103 5.599255e+11 279463.10   
## 416) latitude>=37.38 19 5.957838e+10 228268.40 \*  
## 417) latitude< 37.38 84 4.392864e+11 291042.90   
## 834) latitude< 37.115 68 3.706317e+11 281251.50   
## 1668) sdbedrooms< 0.9674125 18 4.769140e+10 241072.20 \*  
## 1669) sdbedrooms>=0.9674125 50 2.834204e+11 295716.00   
## 3338) latitude>=34.18 13 3.650877e+10 257153.80 \*  
## 3339) latitude< 34.18 37 2.207879e+11 309264.90   
## 6678) longitude>=-118.345 26 1.549224e+11 288023.10   
## 13356) latitude< 34.11 19 9.176136e+10 268368.40 \*  
## 13357) latitude>=34.11 7 3.589881e+10 341371.60 \*  
## 6679) longitude< -118.345 11 2.640480e+10 359472.80 \*  
## 835) latitude>=37.115 16 3.442872e+10 332656.20 \*  
## 209) housingMedianAge>=39.5 35 2.571407e+11 357391.50   
## 418) latitude>=34.15 14 5.529860e+10 302978.60 \*  
## 419) latitude< 34.15 21 1.327576e+11 393666.80   
## 838) sdbedrooms>=1.010124 7 3.814387e+10 340971.40 \*  
## 839) sdbedrooms< 1.010124 14 6.545736e+10 420014.40 \*  
## 105) longitude< -122.1 48 2.021528e+11 380148.00   
## 210) sdrooms< 6.775506 38 1.214262e+11 366381.60   
## 420) medianIncome< 6.0953 26 6.661977e+10 352526.90   
## 840) latitude>=37.545 17 3.331110e+10 334217.60 \*  
## 841) latitude< 37.545 9 1.684517e+10 387111.10 \*  
## 421) medianIncome>=6.0953 12 3.900225e+10 396400.20 \*  
## 211) sdrooms>=6.775506 10 4.615935e+10 432460.30 \*  
## 53) sdbedrooms>=1.042401 88 7.650826e+11 383318.40   
## 106) housingMedianAge< 51 71 5.796715e+11 367969.10   
## 212) housingMedianAge>=35.5 33 2.399356e+11 335251.50   
## 424) population< 489.5 8 7.634135e+10 268287.50 \*  
## 425) population>=489.5 25 1.162413e+11 356680.00   
## 850) medianIncome>=6.05285 9 3.881970e+10 321877.80 \*  
## 851) medianIncome< 6.05285 16 6.038915e+10 376256.30 \*  
## 213) housingMedianAge< 35.5 38 2.737348e+11 396381.80   
## 426) sdbedrooms< 1.122202 25 1.755090e+11 374240.00   
## 852) sdrooms>=6.33599 10 3.749226e+10 315970.00 \*  
## 853) sdrooms< 6.33599 15 8.142681e+10 413086.70 \*  
## 427) sdbedrooms>=1.122202 13 6.239936e+10 438962.00 \*  
## 107) housingMedianAge>=51 17 9.882163e+10 447423.90 \*  
## 27) medianIncome>=6.23215 292 2.081184e+12 414657.80   
## 54) population< 160 8 1.244782e+11 257637.50 \*  
## 55) population>=160 284 1.753906e+12 419080.90   
## 110) latitude>=37.6 53 2.667876e+11 377339.70   
## 220) longitude>=-122.425 38 1.209229e+11 349128.90   
## 440) sdrooms< 6.625725 10 2.274220e+10 307160.00 \*  
## 441) sdrooms>=6.625725 28 7.427610e+10 364117.90   
## 882) latitude< 37.825 8 8.634300e+09 328600.00 \*  
## 883) latitude>=37.825 20 5.151280e+10 378325.00   
## 1766) sdrooms< 7.433053 13 3.466983e+10 362253.80 \*  
## 1767) sdrooms>=7.433053 7 7.249634e+09 408171.40 \*  
## 221) longitude< -122.425 15 3.900886e+10 448807.00 \*  
## 111) latitude< 37.6 231 1.373588e+12 428657.90   
## 222) sdbedrooms< 1.052872 166 1.074940e+12 413679.80   
## 444) medianIncome< 6.66605 69 4.396340e+11 380992.90   
## 888) housingMedianAge< 33.5 25 1.378563e+11 344604.00   
## 1776) sdbedrooms>=0.9926336 11 1.858799e+10 307509.10 \*  
## 1777) sdbedrooms< 0.9926336 14 9.223914e+10 373750.00 \*  
## 889) housingMedianAge>=33.5 44 2.498649e+11 401668.40   
## 1778) population< 744 15 1.229689e+11 353940.20 \*  
## 1779) population>=744 29 7.505242e+10 426355.40   
## 3558) longitude>=-118.395 16 4.125386e+10 408231.40 \*  
## 3559) longitude< -118.395 13 2.207436e+10 448661.80 \*  
## 445) medianIncome>=6.66605 97 5.091423e+11 436931.30   
## 890) longitude>=-117.915 12 9.688031e+10 368508.40 \*  
## 891) longitude< -117.915 85 3.481503e+11 446591.00   
## 1782) housingMedianAge< 44.5 74 3.149307e+11 439069.30   
## 3564) sdrooms< 6.322288 25 1.759169e+11 415096.30   
## 7128) latitude>=34.155 7 3.331352e+10 349600.00 \*  
## 7129) latitude< 34.155 18 1.008973e+11 440567.10 \*  
## 3565) sdrooms>=6.322288 49 1.173159e+11 451300.40   
## 7130) housingMedianAge< 34.5 23 5.301610e+10 429552.40   
## 14260) sdrooms>=6.91565 10 1.628770e+10 405480.00 \*  
## 14261) sdrooms< 6.91565 13 2.647607e+10 448069.60 \*  
## 7131) housingMedianAge>=34.5 26 4.379819e+10 470539.00   
## 14262) latitude< 34.15 9 2.819489e+10 451278.20 \*  
## 14263) latitude>=34.15 17 1.049693e+10 480735.80 \*  
## 1783) housingMedianAge>=44.5 11 8.680653e+08 497191.80 \*  
## 223) sdbedrooms>=1.052872 65 1.662993e+11 466909.80   
## 446) longitude>=-118.395 34 1.221694e+11 448282.70   
## 892) sdrooms< 6.807961 20 8.138891e+10 427385.20   
## 1784) sdbedrooms< 1.078262 12 4.173801e+10 403883.40 \*  
## 1785) sdbedrooms>=1.078262 8 2.308082e+10 462638.00 \*  
## 893) sdrooms>=6.807961 14 1.956916e+10 478136.20 \*  
## 447) longitude< -118.395 31 1.939455e+10 487339.40   
## 894) sdrooms>=7.384632 8 1.046650e+10 471313.00 \*  
## 895) sdrooms< 7.384632 23 6.158581e+09 492913.80 \*  
## 7) medianIncome>=7.7457 577 3.131824e+12 451700.20   
## 14) medianIncome< 9.0398 299 1.768998e+12 425195.40   
## 28) housingMedianAge< 27.5 175 1.012173e+12 392277.90   
## 56) housingMedianAge< 14.5 64 3.634549e+11 363089.10   
## 112) population< 1358 32 2.081021e+11 338131.30   
## 224) sdbedrooms>=0.9939359 20 1.399986e+11 317565.00   
## 448) latitude>=33.935 10 4.844817e+10 271210.00 \*  
## 449) latitude< 33.935 10 4.857461e+10 363920.10 \*  
## 225) sdbedrooms< 0.9939359 12 4.554515e+10 372408.30 \*  
## 113) population>=1358 32 1.154876e+11 388046.90   
## 226) medianIncome< 8.37355 21 6.699421e+10 368095.30   
## 452) housingMedianAge>=9.5 10 7.501501e+09 351630.00 \*  
## 453) housingMedianAge< 9.5 11 5.431706e+10 383063.70 \*  
## 227) medianIncome>=8.37355 11 2.417507e+10 426136.50 \*  
## 57) housingMedianAge>=14.5 111 5.627521e+11 409107.50   
## 114) sdbedrooms< 1.131883 101 4.815054e+11 400908.10   
## 228) longitude>=-117.735 14 4.627074e+10 339221.40 \*  
## 229) longitude< -117.735 87 3.733884e+11 410834.70   
## 458) latitude>=37.905 7 1.342446e+10 332100.00 \*  
## 459) latitude< 37.905 80 3.127729e+11 417724.00   
## 918) sdbedrooms< 1.000681 32 1.148271e+11 392965.70   
## 1836) population< 1192.5 12 3.929178e+10 359900.00 \*  
## 1837) population>=1192.5 20 5.454311e+10 412805.20   
## 3674) housingMedianAge< 22.5 11 6.468689e+09 386690.90 \*  
## 3675) housingMedianAge>=22.5 9 3.140445e+10 444722.60 \*  
## 919) sdbedrooms>=1.000681 48 1.652541e+11 434229.50   
## 1838) housingMedianAge< 21.5 28 8.292798e+10 413496.60   
## 3676) medianIncome< 8.1965 18 5.245394e+10 396627.80 \*  
## 3677) medianIncome>=8.1965 10 1.613250e+10 443860.30 \*  
## 1839) housingMedianAge>=21.5 20 5.343996e+10 463255.60   
## 3678) medianIncome< 7.98245 7 2.745359e+10 422300.30 \*  
## 3679) medianIncome>=7.98245 13 7.922774e+09 485308.40 \*  
## 115) sdbedrooms>=1.131883 10 5.875921e+09 491920.90 \*  
## 29) housingMedianAge>=27.5 124 2.995892e+11 471651.50   
## 58) latitude>=37.805 24 6.777781e+10 431866.90   
## 116) longitude>=-122.225 8 5.675499e+09 387437.50 \*  
## 117) longitude< -122.225 16 3.841464e+10 454081.60 \*  
## 59) latitude< 37.805 100 1.847070e+11 481199.70   
## 118) housingMedianAge< 35.5 44 1.475678e+11 463543.80   
## 236) sdbedrooms< 1.03301 23 9.710322e+10 440978.60   
## 472) medianIncome< 8.1348 11 3.483822e+10 397418.20 \*  
## 473) medianIncome>=8.1348 12 2.225915e+10 480909.00 \*  
## 237) sdbedrooms>=1.03301 21 2.592665e+10 488258.00   
## 474) sdbedrooms>=1.088593 7 2.098470e+10 471229.30 \*  
## 475) sdbedrooms< 1.088593 14 1.897193e+09 496772.40 \*  
## 119) housingMedianAge>=35.5 56 1.264589e+10 495072.30   
## 238) sdrooms< 6.102773 7 6.005981e+09 475957.60 \*  
## 239) sdrooms>=6.102773 49 3.716928e+09 497803.00 \*  
## 15) medianIncome>=9.0398 278 9.268583e+11 480207.30   
## 30) population< 59 9 1.721027e+11 299978.00 \*  
## 31) population>=59 269 4.526312e+11 486237.30   
## 62) housingMedianAge< 18.5 76 2.276600e+11 467863.70   
## 124) medianIncome< 10.6756 44 1.801029e+11 451080.00   
## 248) sdbedrooms< 1.034094 20 1.210939e+11 428035.40   
## 496) population>=997.5 9 7.366714e+10 386889.10 \*  
## 497) population< 997.5 11 1.972286e+10 461700.50 \*  
## 249) sdbedrooms>=1.034094 24 3.953705e+10 470283.80   
## 498) longitude>=-117.775 9 2.331451e+10 444622.60 \*  
## 499) longitude< -117.775 15 6.740122e+09 485680.60 \*  
## 125) medianIncome>=10.6756 32 1.811999e+10 490941.40   
## 250) population< 691 9 1.237514e+10 476956.20 \*  
## 251) population>=691 23 3.295782e+09 496413.90 \*  
## 63) housingMedianAge>=18.5 193 1.892116e+11 493472.40   
## 126) longitude>=-117.93 27 1.432076e+11 467623.00   
## 252) latitude>=33.815 7 8.328641e+10 396800.30 \*  
## 253) latitude< 33.815 20 1.252141e+10 492410.90   
## 506) housingMedianAge< 22.5 7 1.038163e+10 478315.00 \*  
## 507) housingMedianAge>=22.5 13 0.000000e+00 500001.00 \*  
## 127) longitude< -117.93 166 2.502831e+10 497676.80   
## 254) medianIncome< 9.1555 8 6.493429e+09 480575.60 \*  
## 255) medianIncome>=9.1555 158 1.607681e+10 498542.70 \*

##   
## Call:  
## randomForest(formula = medianHouseValue ~ longitude + latitude + housingMedianAge + sdrooms + sdbedrooms + population + medianIncome, data = cahousing\_train, importance = TRUE)   
## Type of random forest: regression  
## Number of trees: 500  
## No. of variables tried at each split: 2  
##   
## Mean of squared residuals: 2712269099  
## % Var explained: 79.73

## Distribution not specified, assuming gaussian ...

## gbm(formula = medianHouseValue ~ longitude + latitude + housingMedianAge +   
## sdrooms + sdbedrooms + population + medianIncome, data = cahousing\_train)  
## A gradient boosted model with gaussian loss function.  
## 100 iterations were performed.  
## There were 7 predictors of which 6 had non-zero influence.

Now, we estimate their RMSE to find out which model is our best predictive model.

## [1] 71302.07

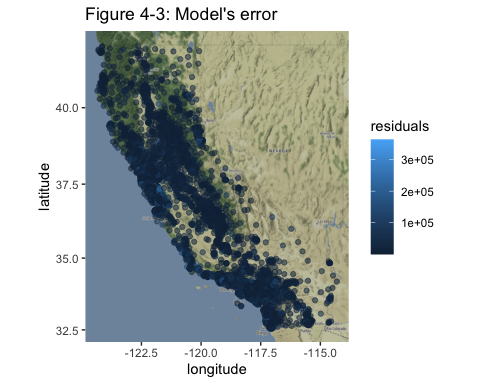
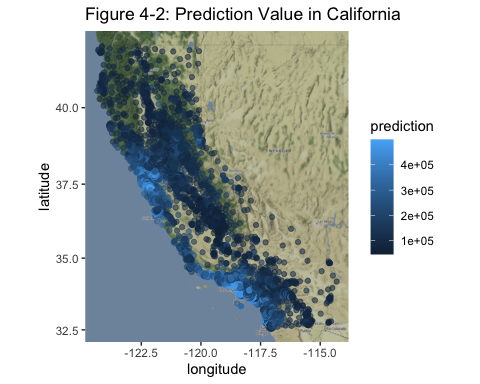
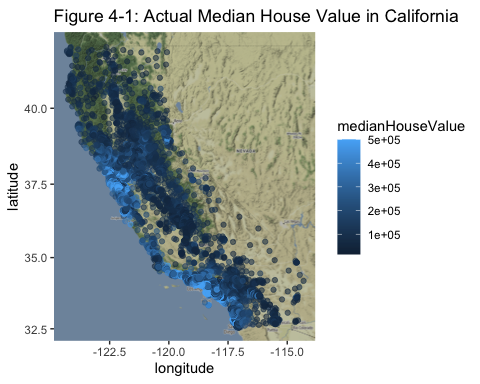
## [1] 68354.53

## [1] 62769.31

## [1] 49962.51

## [1] 72154.39

According to our results, we can find the Random Forecast model has lower RMSE, so we use this to build our best predictive model.



We can find that above graphs are perform well, because Figure1: Actual Median House Value in California are almost match with Figure 4-2: Prediction Value in California. Therefore, we can indicate the random forest is the best predictive model in this case. In conclusion, our predictive model is effective, then we may use this predictive model to forecast other states or area in United State.