udemy

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**require**(ggplot2)

## Loading required package: ggplot2

**require**(dplyr)

## Loading required package: dplyr

##

## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':

##

## filter, lag

## The following objects are masked from 'package:base':

##

## intersect, setdiff, setequal, union

**require**(magrittr)

## Loading required package: magrittr

**require**(lubridate)

## Loading required package: lubridate

## Warning: package 'lubridate' was built under R version 4.0.2

##

## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':

##

## date, intersect, setdiff, union

**require**(e1071)

## Loading required package: e1071

## Warning: package 'e1071' was built under R version 4.0.2

**require**(plotrix)

## Loading required package: plotrix

**require**(animation)

## Loading required package: animation

## Warning: package 'animation' was built under R version 4.0.2

setwd('C:/Users/C5GM/Desktop/New folder (2)')

ud <- read.csv('udemy.csv')

IT shows the date table

View(ud)

this function is for shoing the class of the data

class(ud)

## [1] "data.frame"

this function shows the names of the titles of the data

names(ud)

## [1] "course\_id" "course\_title" "url" "paid"

## [5] "price" "num\_subscribers" "num\_reviews" "num\_lectures"

## [9] "level" "content\_duration" "published\_date" "subject"

This function shows the what is object of the each column in the data

str(ud)

## 'data.frame': 3678 obs. of 12 variables:

## $ course\_id : int 1070968 1113822 1006314 1210588 1011058 192870 739964 403100 476268 1167710 ...

## $ course\_title : chr "Ultimate Investment Banking Course" "Complete GST Course & Certification - Grow Your CA Practice" "Financial Modeling for Business Analysts and Consultants" "Beginner to Pro - Financial Analysis in Excel 2017" ...

## $ url : chr "https://www.udemy.com/ultimate-investment-banking-course/" "https://www.udemy.com/goods-and-services-tax/" "https://www.udemy.com/financial-modeling-for-business-analysts-and-consultants/" "https://www.udemy.com/complete-excel-finance-course-from-beginner-to-pro/" ...

## $ paid : logi TRUE TRUE TRUE TRUE TRUE TRUE ...

## $ price : int 200 75 45 95 200 150 65 95 195 200 ...

## $ num\_subscribers : int 2147 2792 2174 2451 1276 9221 1540 2917 5172 827 ...

## $ num\_reviews : int 23 923 74 11 45 138 178 148 34 14 ...

## $ num\_lectures : int 51 274 51 36 26 25 26 23 38 15 ...

## $ level : chr "All Levels" "All Levels" "Intermediate Level" "All Levels" ...

## $ content\_duration: num 1.5 39 2.5 3 2 3 1 2.5 2.5 1 ...

## $ published\_date : chr "2017-01-18" "2017-03-09" "2016-12-19" "2017-05-30" ...

## $ subject : chr "Business Finance" "Business Finance" "Business Finance" "Business Finance" ...

This function shows the what is summary of the data

summary(ud)

## course\_id course\_title url paid

## Min. : 8324 Length:3678 Length:3678 Mode :logical

## 1st Qu.: 407693 Class :character Class :character FALSE:310

## Median : 687917 Mode :character Mode :character TRUE :3368

## Mean : 675972

## 3rd Qu.: 961356

## Max. :1282064

## price num\_subscribers num\_reviews num\_lectures

## Min. : 0.00 Min. : 0.0 Min. : 0.0 Min. : 0.00

## 1st Qu.: 20.00 1st Qu.: 111.0 1st Qu.: 4.0 1st Qu.: 15.00

## Median : 45.00 Median : 911.5 Median : 18.0 Median : 25.00

## Mean : 66.05 Mean : 3197.2 Mean : 156.3 Mean : 40.11

## 3rd Qu.: 95.00 3rd Qu.: 2546.0 3rd Qu.: 67.0 3rd Qu.: 45.75

## Max. :200.00 Max. :268923.0 Max. :27445.0 Max. :779.00

## level content\_duration published\_date subject

## Length:3678 Min. : 0.000 Length:3678 Length:3678

## Class :character 1st Qu.: 1.000 Class :character Class :character

## Mode :character Median : 2.000 Mode :character Mode :character

## Mean : 4.095

## 3rd Qu.: 4.500

## Max. :78.500

This function shows no of rows

nrow(ud)

## [1] 3678

This function is to show the no of columns

ncol(ud)

## [1] 12

this function is shows the top 6 of the data

head(ud)

## course\_id course\_title

## 1 1070968 Ultimate Investment Banking Course

## 2 1113822 Complete GST Course & Certification - Grow Your CA Practice

## 3 1006314 Financial Modeling for Business Analysts and Consultants

## 4 1210588 Beginner to Pro - Financial Analysis in Excel 2017

## 5 1011058 How To Maximize Your Profits Trading Options

## 6 192870 Trading Penny Stocks: A Guide for All Levels In 2017

## url

## 1 https://www.udemy.com/ultimate-investment-banking-course/

## 2 https://www.udemy.com/goods-and-services-tax/

## 3 https://www.udemy.com/financial-modeling-for-business-analysts-and-consultants/

## 4 https://www.udemy.com/complete-excel-finance-course-from-beginner-to-pro/

## 5 https://www.udemy.com/how-to-maximize-your-profits-trading-options/

## 6 https://www.udemy.com/trading-penny-stocks-a-guide-for-all-levels/

## paid price num\_subscribers num\_reviews num\_lectures level

## 1 TRUE 200 2147 23 51 All Levels

## 2 TRUE 75 2792 923 274 All Levels

## 3 TRUE 45 2174 74 51 Intermediate Level

## 4 TRUE 95 2451 11 36 All Levels

## 5 TRUE 200 1276 45 26 Intermediate Level

## 6 TRUE 150 9221 138 25 All Levels

## content\_duration published\_date subject

## 1 1.5 2017-01-18 Business Finance

## 2 39.0 2017-03-09 Business Finance

## 3 2.5 2016-12-19 Business Finance

## 4 3.0 2017-05-30 Business Finance

## 5 2.0 2016-12-13 Business Finance

## 6 3.0 2014-05-02 Business Finance

This function shows the bottom 6 of the data

tail(ud)

## course\_id course\_title

## 3673 865438 jQuery UI in Action: Build 5 jQuery UI Projects

## 3674 775618 Learn jQuery from Scratch - Master of JavaScript library

## 3675 1088178 How To Design A WordPress Website With No Coding At All

## 3676 635248 Learn and Build using Polymer

## 3677 905096 CSS Animations: Create Amazing Effects on Your Website

## 3678 297602 Using MODX CMS to Build Websites: A Beginner's Guide

## url

## 3673 https://www.udemy.com/jquery-ui-practical-build-jquery-ui-projects/

## 3674 https://www.udemy.com/easy-jquery-for-beginner-learn-from-scratch-step-by-step/

## 3675 https://www.udemy.com/how-to-make-a-wordpress-website-course/

## 3676 https://www.udemy.com/learn-and-build-using-polymer/

## 3677 https://www.udemy.com/css-animations-create-amazing-effects-on-your-website/

## 3678 https://www.udemy.com/using-modx-cms-to-build-websites-a-beginners-guide/

## paid price num\_subscribers num\_reviews num\_lectures level

## 3673 TRUE 150 382 28 140 All Levels

## 3674 TRUE 100 1040 14 21 All Levels

## 3675 TRUE 25 306 3 42 Beginner Level

## 3676 TRUE 40 513 169 48 All Levels

## 3677 TRUE 50 300 31 38 All Levels

## 3678 TRUE 45 901 36 20 Beginner Level

## content\_duration published\_date subject

## 3673 15.5 2016-10-10 Web Development

## 3674 2.0 2016-06-14 Web Development

## 3675 3.5 2017-03-10 Web Development

## 3676 3.5 2015-12-30 Web Development

## 3677 3.0 2016-08-11 Web Development

## 3678 2.0 2014-09-28 Web Development

dim(ud)

## [1] 3678 12

#This function shows the over view of the data

glimpse(ud)

## Rows: 3,678

## Columns: 12

## $ course\_id <int> 1070968, 1113822, 1006314, 1210588, 1011058, 19287...

## $ course\_title <chr> "Ultimate Investment Banking Course", "Complete GS...

## $ url <chr> "https://www.udemy.com/ultimate-investment-banking...

## $ paid <lgl> TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TRUE, TR...

## $ price <int> 200, 75, 45, 95, 200, 150, 65, 95, 195, 200, 200, ...

## $ num\_subscribers <int> 2147, 2792, 2174, 2451, 1276, 9221, 1540, 2917, 51...

## $ num\_reviews <int> 23, 923, 74, 11, 45, 138, 178, 148, 34, 14, 93, 42...

## $ num\_lectures <int> 51, 274, 51, 36, 26, 25, 26, 23, 38, 15, 76, 17, 1...

## $ level <chr> "All Levels", "All Levels", "Intermediate Level", ...

## $ content\_duration <dbl> 1.5000000, 39.0000000, 2.5000000, 3.0000000, 2.000...

## $ published\_date <chr> "2017-01-18", "2017-03-09", "2016-12-19", "2017-05...

## $ subject <chr> "Business Finance", "Business Finance", "Business ...

boxploat & scaterploat

it is the box plot for price for the udemay ware the mean is towords the 1st qutaile to minemum value

boxplot(ud$price)

Chart, box and whisker chart

Description automatically generated ## boxplot for the content\_duration its mean is towords 1st quataile ans remaining points are out of the quataile 4

boxplot(ud$content\_duration)

Chart, box and whisker chart

Description automatically generated ## plot the chart for course\_id and price it shows the the course id is between the 0 to 60000 and who’s prise beween the 0 to 100 the plot shows the more of the coures are between the 20 to 50 range

input <- ud[,c('course\_id','price')]

plot(x=input$course\_id,y=input$price,

xlab = "course\_id",

ylab = "price",

xlim = c(0,60000),

ylim = c(0,100),

main = "course\_id vs price")

Chart, scatter chart, box and whisker chart

Description automatically generated ## functions # no of subjects are their in udemy ## group by function will group the column and summarise the function will give the summariseing the date with comande what we have given

ud %>%

group\_by(subject) %>%

summarise(cnt=n())

## `summarise()` ungrouping output (override with `.groups` argument)

## # A tibble: 4 x 2

## subject cnt

## <chr> <int>

## 1 Business Finance 1195

## 2 Graphic Design 603

## 3 Musical Instruments 680

## 4 Web Development 1200

#no of hours for each course ## the function mutate add the new column in the date

ud <- ud %>%

mutate(no.H=num\_lectures\*content\_duration)

names(ud)

## [1] "course\_id" "course\_title" "url" "paid"

## [5] "price" "num\_subscribers" "num\_reviews" "num\_lectures"

## [9] "level" "content\_duration" "published\_date" "subject"

## [13] "no.H"

head(ud)

## course\_id course\_title

## 1 1070968 Ultimate Investment Banking Course

## 2 1113822 Complete GST Course & Certification - Grow Your CA Practice

## 3 1006314 Financial Modeling for Business Analysts and Consultants

## 4 1210588 Beginner to Pro - Financial Analysis in Excel 2017

## 5 1011058 How To Maximize Your Profits Trading Options

## 6 192870 Trading Penny Stocks: A Guide for All Levels In 2017

## url

## 1 https://www.udemy.com/ultimate-investment-banking-course/

## 2 https://www.udemy.com/goods-and-services-tax/

## 3 https://www.udemy.com/financial-modeling-for-business-analysts-and-consultants/

## 4 https://www.udemy.com/complete-excel-finance-course-from-beginner-to-pro/

## 5 https://www.udemy.com/how-to-maximize-your-profits-trading-options/

## 6 https://www.udemy.com/trading-penny-stocks-a-guide-for-all-levels/

## paid price num\_subscribers num\_reviews num\_lectures level

## 1 TRUE 200 2147 23 51 All Levels

## 2 TRUE 75 2792 923 274 All Levels

## 3 TRUE 45 2174 74 51 Intermediate Level

## 4 TRUE 95 2451 11 36 All Levels

## 5 TRUE 200 1276 45 26 Intermediate Level

## 6 TRUE 150 9221 138 25 All Levels

## content\_duration published\_date subject no.H

## 1 1.5 2017-01-18 Business Finance 76.5

## 2 39.0 2017-03-09 Business Finance 10686.0

## 3 2.5 2016-12-19 Business Finance 127.5

## 4 3.0 2017-05-30 Business Finance 108.0

## 5 2.0 2016-12-13 Business Finance 52.0

## 6 3.0 2014-05-02 Business Finance 75.0

ud %>%

select(no.H)

## no.H

## 1 7.650000e+01

## 2 1.068600e+04

## 3 1.275000e+02

## 4 1.080000e+02

## 5 5.200000e+01

## 6 7.500000e+01

## 7 2.600000e+01

## 8 5.750000e+01

## 9 9.500000e+01

## 10 1.500000e+01

## 11 3.800000e+02

## 12 1.700000e+01

## 13 2.850000e+01

## 14 3.200000e+01

## 15 2.940000e+02

## 16 2.850000e+01

## 17 2.400000e+01

## 18 2.080000e+02

## 19 3.450000e+01

## 20 7.000000e+00

## 21 5.000000e+01

## 22 1.560000e+02

## 23 3.200000e+01

## 24 2.300000e+01

## 25 8.000000e+01

## 26 2.500000e+02

## 27 1.890000e+02

## 28 5.000000e+01

## 29 3.645000e+02

## 30 1.110000e+02

## 31 1.025000e+02

## 32 5.250000e+01

## 33 5.200000e+02

## 34 4.400000e+01

## 35 4.200000e+01

## 36 6.800000e+02

## 37 2.860000e+02

## 38 2.745000e+02

## 39 1.035000e+03

## 40 6.050000e+02

## 41 1.740000e+03

## 42 6.695000e+02

## 43 9.085000e+02

## 44 2.500000e+01

## 45 3.632000e+03

## 46 1.290000e+02

## 47 1.750000e+02

## 48 2.310000e+02

## 49 2.300000e+02

## 50 1.240000e+02

## 51 1.060000e+02

## 52 2.310000e+02

## 53 4.600000e+01

## 54 2.000000e+01

## 55 2.550000e+01

## 56 1.880000e+02

## 57 1.815000e+02

## 58 1.500000e+01

## 59 1.650000e+01

## 60 1.900000e+01

## 61 1.400000e+02

## 62 7.110000e+02

## 63 1.710000e+02

## 64 8.670000e+02

## 65 2.600000e+02

## 66 4.180000e+02

## 67 4.950000e+02

## 68 3.900000e+01

## 69 9.100000e+01

## 70 9.600000e+01

## 71 1.400000e+02

## 72 7.500000e+01

## 73 1.500000e+01

## 74 2.300000e+01

## 75 1.350000e+02

## 76 3.600000e+01

## 77 2.400000e+02

## 78 1.500000e+01

## 79 1.950000e+02

## 80 1.800000e+02

## 81 8.100000e+01

## 82 4.800000e+01

## 83 1.541000e+03

## 84 4.950000e+01

## 85 5.000000e+00

## 86 3.000000e+01

## 87 1.000000e+01

## 88 2.205000e+02

## 89 1.900000e+01

## 90 2.100000e+01

## 91 1.225000e+02

## 92 4.200000e+00

## 93 1.026000e+03

## 94 2.850000e+02

## 95 9.000000e+00

## 96 6.050000e+00

## 97 4.200000e+01

## 98 4.500000e+01

## 99 3.300000e+02

## 100 1.800000e+01

## 101 9.000000e+00

## 102 3.750000e+01

## 103 3.000000e+01

## 104 2.250000e+01

## 105 3.000000e+01

## 106 1.900000e+01

## 107 2.300000e+01

## 108 2.400000e+01

## 109 1.020000e+02

## 110 1.350000e+02

## 111 8.000000e+01

## 112 1.950000e+01

## 113 1.800000e+01

## 114 8.000000e+00

## 115 2.864400e+04

## 116 3.750000e+01

## 117 6.666667e-01

## 118 1.981667e+01

## 119 1.475000e+02

## 120 1.200000e+01

## 121 1.260000e+02

## 122 1.080000e+02

## 123 8.946000e+03

## 124 1.645000e+02

## 125 8.750000e+01

## 126 1.170000e+02

## 127 1.100000e+01

## 128 1.400000e+01

## 129 2.550000e+01

## 130 3.200000e+01

## 131 1.800000e+01

## 132 3.500000e+01

## 133 2.000000e+01

## 134 1.100000e+01

## 135 4.200000e+01

## 136 5.795000e+02

## 137 2.600000e+01

## 138 3.000000e+02

## 139 5.750000e+01

## 140 1.200000e+01

## 141 3.300000e+02

## 142 2.550000e+01

## 143 1.800000e+02

## 144 2.400000e+01

## 145 2.950000e+02

## 146 9.000000e+01

## 147 8.500000e+01

## 148 9.900000e+01

## 149 3.450000e+01

## 150 1.300000e+01

## 151 4.350000e+01

## 152 4.650000e+01

## 153 3.400000e+01

## 154 7.500000e+01

## 155 7.500000e+01

## 156 1.610000e+02

## 157 1.700000e+01

## 158 4.400000e+01

## 159 1.935000e+02

## 160 2.000000e+01

## 161 2.529600e+04

## 162 3.300000e+02

## 163 1.440000e+02

## 164 7.250000e+01

## 165 1.290000e+02

## 166 2.200000e+01

## 167 2.100000e+01

## 168 5.800000e+01

## 169 5.100000e+01

## 170 1.800000e+02

## 171 2.600000e+01

## 172 3.150000e+01

## 173 8.400000e+01

## 174 3.900000e+01

## 175 2.850000e+01

## 176 4.840000e+02

## 177 1.500000e+01

## 178 2.420000e+02

## 179 5.400000e+02

## 180 2.200000e+01

## 181 7.200000e+01

## 182 8.400000e+00

## 183 1.000000e+01

## 184 4.560000e+02

## 185 2.300000e+01

## 186 3.900000e+01

## 187 3.600000e+01

## 188 5.000000e+01

## 189 1.350000e+02

## 190 1.200000e+01

## 191 1.530000e+02

## 192 2.160000e+02

## 193 7.700000e+01

## 194 3.000000e+01

## 195 5.000000e+00

## 196 4.650000e+01

## 197 7.700000e+00

## 198 8.100000e+02

## 199 4.200000e+01

## 200 5.000000e+00

## 201 7.000000e+00

## 202 6.300000e+01

## 203 2.250000e+01

## 204 2.035000e+02

## 205 3.240000e+02

## 206 7.000000e+01

## 207 1.800000e+01

## 208 3.430000e+02

## 209 9.000000e+00

## 210 4.800000e+01

## 211 4.300000e+00

## 212 2.250000e+01

## 213 9.700000e+02

## 214 2.700000e+01

## 215 8.000000e+00

## 216 9.000000e+01

## 217 2.700000e+01

## 218 2.240000e+03

## 219 1.900000e+01

## 220 1.400000e+01

## 221 2.475000e+02

## 222 9.000000e+00

## 223 5.600000e+01

## 224 2.600000e+01

## 225 3.450000e+01

## 226 7.080000e+02

## 227 3.200000e+01

## 228 2.205000e+02

## 229 1.800000e+01

## 230 3.000000e+01

## 231 1.650000e+01

## 232 1.050000e+01

## 233 9.200000e+01

## 234 4.200000e+01

## 235 4.783333e+00

## 236 1.020000e+02

## 237 1.800000e+01

## 238 8.800000e+01

## 239 6.000000e+01

## 240 1.060000e+02

## 241 1.520000e+02

## 242 1.180000e+02

## 243 6.250000e+01

## 244 3.800000e+01

## 245 7.000000e+01

## 246 1.900000e+02

## 247 5.250000e+01

## 248 2.000000e+01

## 249 9.000000e+00

## 250 5.866667e+00

## 251 1.520000e+02

## 252 9.000000e+00

## 253 1.600000e+01

## 254 1.035000e+02

## 255 4.750000e+01

## 256 1.900000e+01

## 257 1.175000e+02

## 258 2.025000e+02

## 259 1.140000e+02

## 260 3.000000e+01

## 261 1.224000e+03

## 262 4.582500e+03

## 263 1.110000e+02

## 264 2.250000e+01

## 265 4.650000e+01

## 266 9.600000e+01

## 267 1.820000e+02

## 268 1.100000e+02

## 269 5.600000e+01

## 270 4.325500e+03

## 271 8.700000e+01

## 272 2.600000e+01

## 273 9.600000e+01

## 274 1.200000e+02

## 275 5.700000e+01

## 276 8.400000e+01

## 277 3.750000e+01

## 278 6.900000e+01

## 279 5.000000e+00

## 280 1.218333e+01

## 281 6.000000e+01

## 282 5.500000e+02

## 283 2.050000e+03

## 284 5.000000e+01

## 285 1.800000e+01

## 286 2.100000e+02

## 287 1.600000e+01

## 288 1.950000e+01

## 289 5.700000e+01

## 290 1.430000e+02

## 291 2.583333e+00

## 292 2.100000e+01

## 293 3.000000e+01

## 294 3.100000e+02

## 295 1.935000e+02

## 296 1.500000e+01

## 297 5.330000e+02

## 298 2.100000e+01

## 299 2.025000e+02

## 300 6.000000e+01

## 301 2.700000e+02

## 302 6.600000e+00

## 303 2.400000e+01

## 304 2.200000e+01

## 305 2.400000e+01

## 306 8.000000e+00

## 307 2.100000e+01

## 308 4.200000e+00

## 309 2.700000e+01

## 310 1.240000e+02

## 311 1.170000e+02

## 312 1.485000e+02

## 313 6.790000e+02

## 314 1.100000e+01

## 315 4.400000e+01

## 316 6.765000e+02

## 317 2.100000e+01

## 318 6.750000e+01

## 319 7.516667e+00

## 320 4.200000e+01

## 321 1.150000e+01

## 322 8.000000e+01

## 323 2.000000e+01

## 324 7.516667e+00

## 325 1.155000e+02

## 326 2.585000e+02

## 327 3.440000e+02

## 328 8.250000e+01

## 329 4.200000e+01

## 330 2.000000e+01

## 331 9.628000e+03

## 332 8.800000e+01

## 333 1.350000e+01

## 334 1.020000e+02

## 335 3.680000e+02

## 336 4.500000e+01

## 337 9.750000e+01

## 338 2.100000e+01

## 339 7.072000e+03

## 340 2.700000e+01

## 341 9.000000e+00

## 342 7.750000e+01

## 343 2.400000e+01

## 344 8.700000e+01

## 345 4.200000e+00

## 346 3.660000e+02

## 347 1.000000e+01

## 348 4.750000e+01

## 349 1.200000e+01

## 350 1.800000e+01

## 351 6.900000e+02

## 352 1.200000e+01

## 353 7.000000e+00

## 354 1.419000e+03

## 355 5.250000e+01

## 356 3.733333e+00

## 357 7.742000e+03

## 358 1.320000e+02

## 359 1.650000e+01

## 360 5.400000e+01

## 361 6.000000e+00

## 362 7.250000e+01

## 363 3.800000e+01

## 364 6.250000e+01

## 365 3.720000e+02

## 366 1.648333e+01

## 367 2.220000e+02

## 368 8.000000e+00

## 369 5.600000e+01

## 370 4.250000e+01

## 371 1.525000e+02

## 372 7.500000e+00

## 373 5.600000e+02

## 374 2.000000e+01

## 375 1.700000e+01

## 376 3.750000e+01

## 377 1.400000e+01

## 378 4.500000e+01

## 379 1.380000e+03

## 380 8.000000e+00

## 381 3.900000e+01

## 382 8.000000e+01

## 383 1.200000e+01

## 384 5.775000e+02

## 385 2.310000e+02

## 386 8.800000e+02

## 387 4.800000e+01

## 388 4.083333e+00

## 389 1.300000e+01

## 390 1.183000e+03

## 391 1.800000e+01

## 392 1.400000e+01

## 393 7.250000e+01

## 394 4.050000e+01

## 395 1.100000e+01

## 396 1.100000e+01

## 397 1.540000e+02

## 398 1.600000e+01

## 399 1.025000e+02

## 400 5.550000e+01

## 401 1.650000e+01

## 402 3.975000e+02

## 403 2.880000e+02

## 404 3.600000e+01

## 405 3.150000e+01

## 406 2.400000e+01

## 407 3.000000e+00

## 408 4.125000e+02

## 409 1.200000e+01

## 410 1.000000e+02

## 411 1.900000e+01

## 412 6.000000e+00

## 413 3.780000e+02

## 414 1.200000e+01

## 415 6.450000e+00

## 416 3.400000e+00

## 417 1.400000e+01

## 418 9.100000e+01

## 419 2.100000e+01

## 420 5.000000e+00

## 421 2.250000e+01

## 422 2.100000e+01

## 423 2.250000e+01

## 424 4.350000e+01

## 425 4.200000e+01

## 426 1.400000e+01

## 427 1.075000e+02

## 428 4.400000e+01

## 429 2.550000e+01

## 430 1.830000e+02

## 431 8.400000e+01

## 432 6.000000e+00

## 433 3.200000e+01

## 434 7.650000e+01

## 435 1.200000e+01

## 436 4.350000e+01

## 437 1.155000e+02

## 438 5.875000e+02

## 439 5.000000e+00

## 440 7.200000e+01

## 441 9.000000e+00

## 442 9.100000e+01

## 443 9.000000e+00

## 444 8.000000e+02

## 445 4.200000e+01

## 446 2.015000e+02

## 447 1.700000e+01

## 448 3.960000e+02

## 449 1.266667e+00

## 450 1.265000e+02

## 451 4.025000e+02

## 452 5.520000e+02

## 453 1.100000e+01

## 454 1.233333e+01

## 455 4.050000e+01

## 456 1.750000e+01

## 457 1.800000e+01

## 458 1.800000e+01

## 459 1.800000e+01

## 460 5.250000e+01

## 461 2.200000e+01

## 462 5.000000e+00

## 463 1.600000e+01

## 464 1.925000e+02

## 465 3.600000e+01

## 466 8.400000e+01

## 467 1.900000e+01

## 468 7.333333e+00

## 469 8.750000e+01

## 470 1.125000e+02

## 471 9.000000e+01

## 472 2.610000e+02

## 473 3.800000e+01

## 474 3.000000e+01

## 475 2.700000e+01

## 476 1.000000e+01

## 477 3.600000e+01

## 478 3.800000e+01

## 479 4.095000e+02

## 480 5.250000e+01

## 481 2.600000e+01

## 482 1.800000e+01

## 483 3.480000e+02

## 484 9.000000e+00

## 485 1.160000e+02

## 486 2.100000e+01

## 487 5.760000e+02

## 488 1.800000e+02

## 489 7.200000e+00

## 490 4.600000e+01

## 491 4.400000e+01

## 492 2.400000e+01

## 493 1.920000e+02

## 494 2.240000e+02

## 495 9.100000e+01

## 496 2.400000e+01

## 497 5.500000e+01

## 498 1.422000e+03

## 499 4.200000e+01

## 500 2.850000e+01

## 501 4.114500e+03

## 502 6.233333e+00

## 503 8.633333e+00

## 504 2.000000e+01

## 505 1.100000e+01

## 506 2.800000e+01

## 507 3.479000e+03

## 508 2.100000e+01

## 509 3.600000e+01

## 510 2.100000e+01

## 511 1.755000e+02

## 512 1.870000e+02

## 513 1.800000e+02

## 514 1.200000e+01

## 515 1.800000e+01

## 516 1.200000e+01

## 517 3.400000e+00

## 518 5.400000e+01

## 519 5.250000e+01

## 520 7.000000e+01

## 521 4.300000e+01

## 522 1.100000e+01

## 523 3.750000e+01

## 524 6.800000e+00

## 525 7.166667e+00

## 526 8.000000e+00

## 527 3.800000e+01

## 528 8.000000e+00

## 529 1.303500e+04

## 530 5.700000e+01

## 531 4.753000e+03

## 532 4.725000e+02

## 533 9.000000e+01

## 534 1.200000e+01

## 535 6.650000e+01

## 536 1.050000e+01

## 537 1.800000e+02

## 538 1.400000e+01

## 539 6.400000e+00

## 540 5.000000e+00

## 541 1.350000e+02

## 542 5.670000e+02

## 543 6.400000e+01

## 544 2.870000e+02

## 545 2.000000e+01

## 546 7.350000e+01

## 547 7.920000e+02

## 548 3.750000e+01

## 549 5.400000e+01

## 550 3.300000e+01

## 551 3.600000e+01

## 552 1.400000e+01

## 553 9.000000e+01

## 554 2.400000e+01

## 555 1.400000e+01

## 556 6.250000e+01

## 557 6.000000e+01

## 558 4.050000e+01

## 559 6.250000e+01

## 560 5.250000e+01

## 561 3.250000e+01

## 562 3.768050e+04

## 563 5.180000e+02

## 564 1.610000e+02

## 565 9.000000e+00

## 566 1.625000e+02

## 567 1.300000e+01

## 568 4.500000e+01

## 569 2.200000e+01

## 570 4.083333e+00

## 571 1.500000e+01

## 572 5.880000e+02

## 573 2.100000e+01

## 574 4.900000e+01

## 575 1.350000e+01

## 576 1.200000e+01

## 577 4.000000e+01

## 578 8.000000e+00

## 579 2.800000e+01

## 580 1.710000e+02

## 581 2.035000e+01

## 582 3.300000e+01

## 583 5.750000e+01

## 584 2.100000e+01

## 585 3.900000e+01

## 586 1.800000e+01

## 587 1.400000e+01

## 588 7.750000e+00

## 589 2.550000e+01

## 590 1.414500e+03

## 591 4.089000e+03

## 592 5.400000e+01

## 593 4.200000e+01

## 594 5.000000e+00

## 595 1.500000e+01

## 596 9.600000e+01

## 597 9.570000e+02

## 598 1.950000e+01

## 599 2.250000e+01

## 600 7.000000e+01

## 601 2.550000e+01

## 602 1.625000e+02

## 603 2.600000e+01

## 604 2.250000e+01

## 605 9.000000e+01

## 606 2.850000e+01

## 607 4.200000e+01

## 608 8.633333e+00

## 609 6.300000e+01

## 610 8.400000e+01

## 611 1.100000e+01

## 612 1.200000e+01

## 613 2.600000e+01

## 614 6.300000e+01

## 615 1.680000e+02

## 616 3.966667e+00

## 617 8.883333e+00

## 618 9.000000e+00

## 619 8.000000e+00

## 620 9.750000e+00

## 621 6.000000e+00

## 622 3.000000e+01

## 623 1.640000e+02

## 624 2.000000e+01

## 625 1.320000e+02

## 626 1.400000e+01

## 627 1.320000e+02

## 628 3.660000e+02

## 629 1.440000e+02

## 630 1.800000e+01

## 631 2.035000e+02

## 632 6.000000e+00

## 633 4.205000e+02

## 634 5.800000e+01

## 635 2.400000e+01

## 636 2.400000e+01

## 637 1.260000e+02

## 638 3.450000e+01

## 639 1.300000e+02

## 640 1.300000e+01

## 641 1.045000e+01

## 642 2.400000e+01

## 643 3.000000e+01

## 644 5.000000e+00

## 645 3.000000e+01

## 646 3.300000e+01

## 647 4.400000e+01

## 648 8.750000e+01

## 649 2.000000e+01

## 650 1.500000e+01

## 651 9.450000e+01

## 652 3.710000e+02

## 653 1.942500e+03

## 654 1.180000e+02

## 655 4.000000e+01

## 656 2.001000e+04

## 657 6.600000e+00

## 658 1.010000e+03

## 659 4.250000e+01

## 660 1.375000e+02

## 661 2.100000e+01

## 662 3.166667e+00

## 663 3.300000e+01

## 664 2.000000e+01

## 665 5.000000e+00

## 666 5.400000e+01

## 667 1.080000e+02

## 668 7.350000e+01

## 669 4.000000e+00

## 670 2.750000e+02

## 671 1.800000e+01

## 672 2.050000e+02

## 673 2.160000e+02

## 674 3.000000e+01

## 675 2.400000e+01

## 676 4.600000e+01

## 677 1.000000e+02

## 678 1.900000e+01

## 679 2.080000e+02

## 680 1.330000e+03

## 681 3.500000e+02

## 682 3.315000e+02

## 683 1.000000e+01

## 684 9.000000e+00

## 685 5.000000e+00

## 686 1.800000e+01

## 687 2.550000e+01

## 688 1.470000e+02

## 689 1.551500e+03

## 690 3.200000e+01

## 691 2.400000e+01

## 692 8.000000e+00

## 693 5.000000e+00

## 694 3.500000e+02

## 695 1.650000e+02

## 696 7.000000e+00

## 697 5.800000e+01

## 698 8.700000e+01

## 699 1.020000e+02

## 700 2.000000e+02

## 701 1.000000e+02

## 702 1.050000e+02

## 703 1.700000e+01

## 704 5.066667e+00

## 705 9.800000e+01

## 706 3.000000e+02

## 707 2.400000e+01

## 708 2.400000e+01

## 709 5.000000e+01

## 710 9.900000e+01

## 711 1.320000e+02

## 712 6.000000e+00

## 713 1.025000e+02

## 714 6.750000e+01

## 715 1.200000e+02

## 716 7.400000e+01

## 717 1.160000e+02

## 718 1.875000e+02

## 719 2.800000e+00

## 720 2.100000e+01

## 721 3.750000e+01

## 722 1.020000e+03

## 723 2.000000e+01

## 724 5.500000e+01

## 725 2.712000e+03

## 726 8.000000e+00

## 727 3.510000e+02

## 728 6.000000e+00

## 729 2.465000e+02

## 730 1.200000e+01

## 731 3.083333e+00

## 732 3.750000e+01

## 733 8.000000e+00

## 734 7.000000e+00

## 735 6.000000e+00

## 736 7.500000e+01

## 737 3.200000e+00

## 738 1.300000e+01

## 739 1.700000e+01

## 740 2.900000e+01

## 741 2.250000e+01

## 742 1.435000e+02

## 743 8.066667e+00

## 744 4.650000e+01

## 745 4.133333e+00

## 746 1.000000e+01

## 747 2.750000e+02

## 748 7.000000e+00

## 749 1.050000e+01

## 750 7.583333e+00

## 751 1.440000e+02

## 752 5.000000e+01

## 753 1.500000e+01

## 754 9.100000e+01

## 755 5.000000e+01

## 756 4.500000e+01

## 757 6.210000e+02

## 758 3.300000e+01

## 759 8.200000e+00

## 760 2.400000e+01

## 761 2.600000e+01

## 762 2.520000e+02

## 763 2.695000e+02

## 764 3.750000e+01

## 765 8.000000e+01

## 766 9.450000e+01

## 767 2.000000e+01

## 768 5.000000e+00

## 769 2.485000e+02

## 770 1.800000e+01

## 771 2.400000e+01

## 772 2.850000e+01

## 773 1.400000e+02

## 774 1.400000e+01

## 775 3.750000e+01

## 776 1.320000e+02

## 777 1.232500e+03

## 778 6.200000e+00

## 779 1.000000e+01

## 780 1.800000e+01

## 781 1.800000e+01

## 782 5.333333e+00

## 783 8.800000e+00

## 784 2.500000e+01

## 785 9.000000e+00

## 786 1.200000e+01

## 787 2.250000e+01

## 788 1.233333e+01

## 789 4.050000e+01

## 790 2.000000e+01

## 791 1.760000e+02

## 792 1.380000e+02

## 793 6.000000e+00

## 794 2.300000e+01

## 795 1.171667e+01

## 796 5.750000e+01

## 797 3.800000e+01

## 798 1.650000e+01

## 799 1.140000e+02

## 800 4.050000e+01

## 801 3.000000e+01

## 802 2.000000e+01

## 803 6.233333e+00

## 804 2.405000e+02

## 805 3.600000e+01

## 806 1.003333e+01

## 807 1.305000e+02

## 808 2.200000e+02

## 809 7.800000e+01

## 810 6.000000e+01

## 811 1.300000e+01

## 812 1.000000e+01

## 813 6.933333e+00

## 814 1.800000e+01

## 815 1.400000e+01

## 816 1.500000e+01

## 817 8.000000e+00

## 818 1.110000e+02

## 819 8.800000e+01

## 820 6.000000e+01

## 821 1.995000e+02

## 822 1.680000e+01

## 823 3.083333e+00

## 824 1.015000e+02

## 825 2.625000e+02

## 826 3.750000e+01

## 827 1.700000e+01

## 828 6.000000e+01

## 829 1.640000e+02

## 830 3.240000e+02

## 831 1.100000e+01

## 832 4.400000e+01

## 833 3.850000e+02

## 834 1.250000e+02

## 835 4.750000e+01

## 836 1.050000e+02

## 837 1.700000e+01

## 838 4.125000e+02

## 839 3.150000e+02

## 840 4.345000e+02

## 841 6.000000e+00

## 842 6.800000e+01

## 843 3.200000e+01

## 844 4.000000e+01

## 845 1.750000e+02

## 846 5.700000e+01

## 847 5.100000e+01

## 848 4.480000e+02

## 849 1.000000e+01

## 850 1.600000e+01

## 851 5.000000e+00

## 852 1.215000e+02

## 853 7.000000e+01

## 854 1.100000e+01

## 855 3.300000e+01

## 856 1.500000e+01

## 857 6.500000e+01

## 858 7.150000e+01

## 859 3.600000e+01

## 860 5.000000e+01

## 861 7.800000e+01

## 862 2.700000e+01

## 863 4.560000e+02

## 864 2.590000e+02

## 865 1.000000e+01

## 866 3.300000e+01

## 867 5.000000e+00

## 868 1.700000e+01

## 869 4.800000e+00

## 870 2.100000e+01

## 871 1.998000e+04

## 872 4.050000e+01

## 873 8.100000e+01

## 874 4.250000e+01

## 875 2.310000e+03

## 876 1.500000e+01

## 877 9.600000e+01

## 878 1.500000e+02

## 879 6.600000e+01

## 880 1.215000e+02

## 881 3.600000e+00

## 882 5.000000e+00

## 883 1.980000e+02

## 884 7.200000e+01

## 885 1.200000e+01

## 886 7.600000e+00

## 887 4.316667e+00

## 888 3.200000e+00

## 889 2.000000e+01

## 890 1.050000e+01

## 891 6.000000e+00

## 892 9.000000e+00

## 893 0.000000e+00

## 894 2.700000e+01

## 895 1.000000e+01

## 896 1.500000e+01

## 897 4.200000e+01

## 898 4.200000e+01

## 899 4.200000e+01

## 900 6.450000e+00

## 901 2.100000e+01

## 902 3.400000e+01

## 903 8.750000e+01

## 904 5.400000e+01

## 905 2.240000e+02

## 906 2.250000e+01

## 907 3.000000e+01

## 908 7.000000e+01

## 909 4.200000e+01

## 910 1.350000e+02

## 911 6.000000e+00

## 912 6.000000e+00

## 913 4.620000e+02

## 914 2.400000e+01

## 915 1.125000e+02

## 916 6.600000e+01

## 917 5.550000e+01

## 918 3.900000e+01

## 919 6.300000e+01

## 920 1.110000e+02

## 921 2.325000e+02

## 922 6.900000e+01

## 923 1.000000e+01

## 924 7.000000e+00

## 925 4.000500e+03

## 926 3.200000e+00

## 927 1.800000e+01

## 928 1.650000e+01

## 929 1.180000e+02

## 930 3.900000e+01

## 931 2.655000e+02

## 932 1.950000e+01

## 933 1.950000e+01

## 934 1.000000e+02

## 935 1.400000e+01

## 936 5.000000e+02

## 937 3.300000e+01

## 938 1.600000e+01

## 939 6.500000e+01

## 940 9.500000e+00

## 941 2.550000e+01

## 942 5.000000e+00

## 943 5.063333e+01

## 944 1.080000e+02

## 945 6.300000e+01

## 946 4.800000e+01

## 947 8.437000e+03

## 948 6.750000e+01

## 949 2.800000e+01

## 950 1.495000e+02

## 951 2.700000e+01

## 952 5.400000e+01

## 953 1.000000e+01

## 954 3.800000e+01

## 955 7.000000e+01

## 956 1.800000e+01

## 957 1.200000e+01

## 958 1.080000e+02

## 959 8.000000e+00

## 960 6.000000e+00

## 961 2.000000e+01

## 962 1.500000e+01

## 963 9.000000e+00

## 964 2.040000e+02

## 965 1.700000e+02

## 966 3.600000e+01

## 967 5.000000e+01

## 968 9.620000e+02

## 969 3.900000e+01

## 970 1.050000e+02

## 971 2.600000e+01

## 972 7.000000e+01

## 973 1.700000e+01

## 974 9.600000e+01

## 975 5.500000e+01

## 976 1.350000e+02

## 977 1.620000e+03

## 978 1.500000e+02

## 979 1.100000e+01

## 980 8.750000e+01

## 981 1.298333e+01

## 982 4.900000e+01

## 983 3.000000e+01

## 984 6.666667e+00

## 985 5.400000e+00

## 986 2.370000e+02

## 987 1.620000e+02

## 988 2.400000e+01

## 989 2.850000e+01

## 990 1.960000e+02

## 991 1.820000e+02

## 992 3.190000e+02

## 993 3.616667e+00

## 994 6.250000e+01

## 995 4.100000e+00

## 996 1.800000e+01

## 997 1.300000e+01

## 998 8.700000e+01

## 999 7.000000e+00

## 1000 7.933333e+00

## 1001 1.800000e+01

## 1002 1.215000e+02

## 1003 6.300000e+01

## 1004 6.250000e+01

## 1005 9.000000e+00

## 1006 2.400000e+01

## 1007 1.350000e+02

## 1008 3.600000e+00

## 1009 1.120000e+02

## 1010 6.750000e+01

## 1011 3.800000e+01

## 1012 2.030000e+02

## 1013 5.000000e+00

## 1014 5.000000e+00

## 1015 9.750000e+01

## 1016 4.095000e+03

## 1017 2.640000e+02

## 1018 3.200000e+00

## 1019 6.000000e+00

## 1020 3.850000e+01

## 1021 2.400000e+01

## 1022 8.500000e+01

## 1023 4.800000e+01

## 1024 9.450000e+01

## 1025 4.400000e+01

## 1026 7.000000e+00

## 1027 1.500000e+01

## 1028 2.535000e+02

## 1029 2.500000e+01

## 1030 1.400000e+01

## 1031 1.100000e+01

## 1032 8.400000e+01

## 1033 5.800000e+01

## 1034 5.600000e+01

## 1035 1.650000e+02

## 1036 3.750000e+01

## 1037 1.620000e+02

## 1038 5.250000e+01

## 1039 1.950000e+01

## 1040 4.200000e+02

## 1041 2.700000e+02

## 1042 1.800000e+01

## 1043 1.800000e+01

## 1044 4.165000e+02

## 1045 8.800000e+00

## 1046 3.400000e+02

## 1047 5.800000e+01

## 1048 7.500000e+01

## 1049 1.560000e+01

## 1050 1.950000e+01

## 1051 9.450000e+01

## 1052 4.600000e+01

## 1053 4.316667e+00

## 1054 2.200000e+02

## 1055 2.025000e+02

## 1056 4.015000e+02

## 1057 3.200000e+01

## 1058 4.350000e+01

## 1059 1.140000e+02

## 1060 2.250000e+01

## 1061 2.800000e+01

## 1062 2.600000e+02

## 1063 1.400000e+01

## 1064 3.400000e+01

## 1065 1.400000e+01

## 1066 1.400000e+01

## 1067 2.700000e+02

## 1068 2.205000e+02

## 1069 5.000000e+00

## 1070 1.331000e+03

## 1071 2.700000e+01

## 1072 1.295000e+02

## 1073 8.000000e+00

## 1074 1.950000e+01

## 1075 2.200000e+01

## 1076 2.025000e+02

## 1077 4.000000e+01

## 1078 7.600000e+01

## 1079 1.200000e+01

## 1080 4.000000e+00

## 1081 1.200000e+01

## 1082 1.300000e+01

## 1083 1.000000e+01

## 1084 2.550000e+02

## 1085 3.485000e+02

## 1086 1.100000e+01

## 1087 2.000000e+01

## 1088 9.000000e+00

## 1089 1.680000e+02

## 1090 2.700000e+01

## 1091 2.975000e+02

## 1092 1.380000e+02

## 1093 2.000000e+01

## 1094 1.050000e+01

## 1095 1.215000e+02

## 1096 2.350000e+02

## 1097 2.800000e+01

## 1098 1.350000e+01

## 1099 3.710000e+02

## 1100 4.550000e+01

## 1101 1.925000e+02

## 1102 1.350000e+01

## 1103 3.250000e+01

## 1104 8.100000e+01

## 1105 7.000000e+00

## 1106 3.900000e+01

## 1107 2.200000e+01

## 1108 3.333333e+00

## 1109 2.250000e+01

## 1110 4.950000e+01

## 1111 1.400000e+01

## 1112 1.400000e+02

## 1113 1.500000e+01

## 1114 1.365000e+02

## 1115 4.800000e+01

## 1116 3.740000e+02

## 1117 4.620000e+02

## 1118 1.500000e+01

## 1119 7.800000e+01

## 1120 2.035000e+02

## 1121 3.800000e+01

## 1122 8.250000e+01

## 1123 1.650000e+01

## 1124 1.500000e+01

## 1125 9.375000e+02

## 1126 6.600000e+00

## 1127 3.220000e+02

## 1128 4.480000e+02

## 1129 1.200000e+01

## 1130 2.700000e+01

## 1131 3.900000e+01

## 1132 2.550000e+01

## 1133 3.200000e+01

## 1134 5.000000e+01

## 1135 4.800000e+01

## 1136 1.680000e+02

## 1137 5.250000e+01

## 1138 1.485000e+02

## 1139 2.765000e+03

## 1140 1.050000e+02

## 1141 4.000000e+01

## 1142 2.115000e+02

## 1143 2.295000e+02

## 1144 1.800000e+01

## 1145 3.120000e+02

## 1146 5.600000e+01

## 1147 4.720000e+02

## 1148 2.450000e+02

## 1149 4.217500e+03

## 1150 2.550000e+01

## 1151 4.250000e+02

## 1152 1.400000e+01

## 1153 4.350000e+01

## 1154 1.360000e+02

## 1155 1.300000e+01

## 1156 1.080000e+02

## 1157 3.440000e+02

## 1158 6.250000e+01

## 1159 4.400000e+01

## 1160 1.400000e+01

## 1161 7.800000e+01

## 1162 4.200000e+01

## 1163 3.150000e+01

## 1164 1.360000e+01

## 1165 1.360000e+02

## 1166 1.200000e+02

## 1167 6.300000e+01

## 1168 3.600000e+01

## 1169 1.890000e+02

## 1170 2.550000e+01

## 1171 6.966667e+00

## 1172 4.750000e+01

## 1173 3.750000e+01

## 1174 4.050000e+01

## 1175 1.290000e+01

## 1176 1.800000e+01

## 1177 1.200000e+02

## 1178 2.365000e+02

## 1179 4.750000e+01

## 1180 4.500000e+01

## 1181 5.200000e+00

## 1182 1.590000e+02

## 1183 2.160000e+02

## 1184 2.250000e+01

## 1185 5.100000e+01

## 1186 9.500000e+00

## 1187 2.400000e+01

## 1188 2.431000e+03

## 1189 6.783333e+00

## 1190 1.860000e+02

## 1191 1.640000e+02

## 1192 1.000000e+01

## 1193 4.533333e+00

## 1194 1.400000e+02

## 1195 4.600000e+01

## 1196 2.331000e+03

## 1197 1.032000e+03

## 1198 4.050000e+01

## 1199 1.500000e+01

## 1200 8.250000e+02

## 1201 1.500000e+01

## 1202 4.200000e+01

## 1203 5.270000e+03

## 1204 3.000000e+01

## 1205 7.800000e+01

## 1206 1.150000e+02

## 1207 4.500000e+00

## 1208 4.200000e+00

## 1209 8.750000e+01

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## 1211 5.200000e+02

## 1212 6.820000e+02

## 1213 1.725000e+03

## 1214 3.150000e+02

## 1215 4.452500e+03

## 1216 1.470000e+02

## 1217 1.025000e+02

## 1218 5.525000e+02

## 1219 7.110000e+02

## 1220 1.435000e+02

## 1221 1.890000e+02

## 1222 1.710000e+02

## 1223 1.800000e+01

## 1224 2.100000e+01

## 1225 4.950000e+01

## 1226 1.050000e+02

## 1227 1.015000e+02

## 1228 1.000000e+01

## 1229 1.000000e+01

## 1230 6.000000e+00

## 1231 1.750000e+02

## 1232 3.300000e+02

## 1233 1.750000e+02

## 1234 9.000000e+00

## 1235 5.550000e+00

## 1236 9.000000e+00

## 1237 1.740000e+02

## 1238 1.600000e+01

## 1239 1.400000e+01

## 1240 1.000000e+01

## 1241 6.800000e+00

## 1242 1.100000e+01

## 1243 6.300000e+01

## 1244 2.700000e+01

## 1245 9.000000e+01

## 1246 5.500000e+01

## 1247 1.200000e+01

## 1248 2.990000e+02

## 1249 8.400000e+01

## 1250 3.200000e+01

## 1251 1.000000e+01

## 1252 7.250000e+01

## 1253 8.600000e+01

## 1254 2.250000e+01

## 1255 4.200000e+01

## 1256 1.600000e+01

## 1257 2.400000e+01

## 1258 5.000000e+01

## 1259 2.600000e+01

## 1260 1.056000e+03

## 1261 1.608000e+03

## 1262 1.645000e+03

## 1263 7.810000e+02

## 1264 6.000000e+02

## 1265 6.000000e+01

## 1266 1.547000e+03

## 1267 1.155000e+02

## 1268 1.025000e+03

## 1269 6.000000e+01

## 1270 8.450000e+00

## 1271 6.750000e+01

## 1272 3.750000e+01

## 1273 3.750000e+01

## 1274 3.080000e+02

## 1275 2.250000e+01

## 1276 8.750000e+01

## 1277 2.000000e+01

## 1278 9.566667e+00

## 1279 3.300000e+02

## 1280 8.400000e+01

## 1281 7.000000e+01

## 1282 4.050000e+01

## 1283 5.600000e+00

## 1284 2.000000e+01

## 1285 1.200000e+01

## 1286 2.750000e+00

## 1287 5.500000e+01

## 1288 1.800000e+01

## 1289 2.250000e+01

## 1290 1.040000e+02

## 1291 4.533333e+00

## 1292 1.750000e+02

## 1293 2.100000e+01

## 1294 8.400000e+00

## 1295 2.500000e+02

## 1296 2.800000e+01

## 1297 8.970000e+02

## 1298 9.750000e+01

## 1299 1.100000e+01

## 1300 1.400000e+01

## 1301 1.300000e+01

## 1302 1.350000e+01

## 1303 4.800000e+01

## 1304 8.750000e+01

## 1305 4.533333e+00

## 1306 6.966667e+00

## 1307 2.583333e+00

## 1308 2.666667e+00

## 1309 3.966667e+00

## 1310 1.300000e+01

## 1311 1.800000e+01

## 1312 8.200000e+00

## 1313 7.333333e+00

## 1314 2.025000e+02

## 1315 1.000000e+01

## 1316 4.000000e+00

## 1317 6.150000e+00

## 1318 5.400000e+01

## 1319 1.464000e+03

## 1320 7.000000e+01

## 1321 3.416667e+00

## 1322 5.700000e+01

## 1323 1.674000e+03

## 1324 2.365000e+02

## 1325 8.000000e+00

## 1326 1.375000e+02

## 1327 1.800000e+01

## 1328 5.400000e+00

## 1329 1.650000e+01

## 1330 1.350000e+01

## 1331 1.711500e+03

## 1332 8.050000e+01

## 1333 2.850000e+01

## 1334 9.800000e+02

## 1335 8.000000e+00

## 1336 1.715000e+02

## 1337 7.750000e+01

## 1338 1.650000e+01

## 1339 1.575000e+02

## 1340 2.210000e+02

## 1341 1.200000e+01

## 1342 1.500000e+01

## 1343 3.465000e+02

## 1344 4.290000e+02

## 1345 3.000000e+01

## 1346 4.370000e+02

## 1347 3.800000e+01

## 1348 6.150000e+01

## 1349 6.625000e+02

## 1350 1.637500e+03

## 1351 7.200000e+01

## 1352 3.870000e+02

## 1353 1.440000e+02

## 1354 2.500000e+01

## 1355 6.716667e+00

## 1356 6.500000e+01

## 1357 2.860000e+02

## 1358 7.000000e+01

## 1359 1.290000e+02

## 1360 5.200000e+00

## 1361 3.400000e+01

## 1362 2.160000e+02

## 1363 8.000000e+00

## 1364 2.450000e+02

## 1365 6.600000e+01

## 1366 6.300000e+00

## 1367 8.250000e+01

## 1368 9.533333e+00

## 1369 1.000000e+01

## 1370 3.500000e+00

## 1371 2.550000e+01

## 1372 7.400000e+01

## 1373 5.695000e+02

## 1374 2.200000e+02

## 1375 1.000000e+02

## 1376 1.400000e+01

## 1377 1.050000e+02

## 1378 5.330000e+02

## 1379 1.360000e+02

## 1380 4.920000e+02

## 1381 2.400000e+01

## 1382 3.000000e+01

## 1383 7.750000e+01

## 1384 1.085000e+02

## 1385 4.650000e+02

## 1386 6.000000e+00

## 1387 3.080000e+02

## 1388 2.400000e+01

## 1389 1.650000e+02

## 1390 1.274000e+03

## 1391 3.375000e+02

## 1392 9.300000e+01

## 1393 9.875000e+02

## 1394 2.700000e+01

## 1395 5.005000e+02

## 1396 1.500000e+01

## 1397 1.500000e+01

## 1398 1.400000e+01

## 1399 7.000000e+00

## 1400 1.400000e+01

## 1401 5.700000e+01

## 1402 1.470000e+02

## 1403 2.790000e+02

## 1404 1.080000e+03

## 1405 1.900000e+01

## 1406 1.950000e+01

## 1407 1.600000e+01

## 1408 6.600000e+00

## 1409 1.020000e+01

## 1410 1.200000e+01

## 1411 5.005000e+02

## 1412 3.450000e+01

## 1413 1.600000e+01

## 1414 1.260000e+02

## 1415 5.100000e+00

## 1416 3.600000e+01

## 1417 3.750000e+01

## 1418 4.800000e+01

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## 1421 1.000000e+02

## 1422 2.000000e+01

## 1423 1.266667e+01

## 1424 4.300000e+01

## 1425 2.295000e+02

## 1426 3.150000e+01

## 1427 4.800000e+01

## 1428 1.800000e+01

## 1429 4.350000e+01

## 1430 1.400000e+01

## 1431 7.000000e+01

## 1432 4.800000e+01

## 1433 9.440000e+02

## 1434 2.400000e+01

## 1435 9.100000e+01

## 1436 5.100000e+01

## 1437 6.560000e+02

## 1438 4.316667e+00

## 1439 5.000000e+01

## 1440 1.743000e+03

## 1441 1.110000e+02

## 1442 1.200000e+01

## 1443 1.650000e+01

## 1444 2.600000e+01

## 1445 3.416667e+00

## 1446 1.320000e+02

## 1447 1.080000e+02

## 1448 8.000000e+00

## 1449 5.200000e+01

## 1450 4.600000e+01

## 1451 1.900000e+01

## 1452 1.750000e+02

## 1453 3.600000e+01

## 1454 1.995000e+02

## 1455 5.750000e+01

## 1456 9.000000e+00

## 1457 1.312500e+03

## 1458 8.233333e+00

## 1459 1.800000e+01

## 1460 2.850000e+01

## 1461 1.305000e+02

## 1462 2.025000e+02

## 1463 8.000000e+00

## 1464 9.000000e+00

## 1465 7.000000e+00

## 1466 2.700000e+01

## 1467 5.100000e+01

## 1468 4.550000e+01

## 1469 4.900000e+01

## 1470 3.966667e+00

## 1471 8.000000e+00

## 1472 3.250000e+01

## 1473 5.000000e+00

## 1474 5.550000e+00

## 1475 5.250000e+01

## 1476 2.850000e+02

## 1477 3.083333e+00

## 1478 2.420000e+02

## 1479 4.400000e+01

## 1480 4.130000e+02

## 1481 1.960000e+02

## 1482 7.395000e+02

## 1483 1.080000e+02

## 1484 4.290000e+02

## 1485 1.100000e+01

## 1486 3.230000e+02

## 1487 1.026667e+01

## 1488 3.200000e+01

## 1489 6.500000e+01

## 1490 5.500000e+01

## 1491 3.800000e+00

## 1492 2.700000e+02

## 1493 7.400000e+01

## 1494 9.750000e+01

## 1495 1.800000e+01

## 1496 5.550000e+02

## 1497 2.200000e+02

## 1498 8.000000e+00

## 1499 2.400000e+01

## 1500 2.100000e+01

## 1501 7.440000e+02

## 1502 6.600000e+02

## 1503 4.750000e+01

## 1504 9.000000e+00

## 1505 2.700000e+01

## 1506 2.250000e+02

## 1507 2.233000e+03

## 1508 4.350000e+01

## 1509 1.500000e+01

## 1510 4.740000e+03

## 1511 3.600000e+01

## 1512 1.100000e+01

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## 1514 7.000000e+00

## 1515 4.933333e+00

## 1516 1.350000e+01

## 1517 3.000000e+01

## 1518 3.400000e+01

## 1519 7.500000e+01

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## 1522 2.200000e+01

## 1523 1.850000e+02

## 1524 1.887000e+03

## 1525 1.350000e+01

## 1526 1.620000e+02

## 1527 1.650000e+01

## 1528 6.933333e+00

## 1529 1.200000e+02

## 1530 6.600000e+00

## 1531 3.400000e+01

## 1532 8.400000e+00

## 1533 1.100000e+01

## 1534 1.600000e+01

## 1535 3.500000e+00

## 1536 2.850000e+01

## 1537 1.040000e+02

## 1538 9.000000e+00

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## 1541 3.135000e+02

## 1542 3.150000e+01

## 1543 2.550000e+01

## 1544 3.600000e+01

## 1545 4.000000e+01

## 1546 5.250000e+01

## 1547 1.650000e+01

## 1548 8.000000e+01

## 1549 1.000000e+01

## 1550 1.480000e+02

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## 1552 1.900000e+01

## 1553 5.750000e+01

## 1554 1.950000e+01

## 1555 2.800000e+02

## 1556 5.750000e+01

## 1557 9.000000e+00

## 1558 9.000000e+00

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## 1560 1.075000e+02

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## 1562 8.000000e+00

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## 1566 2.475000e+02

## 1567 6.333333e+00

## 1568 1.190000e+02

## 1569 6.000000e+00

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## 1571 7.250000e+01

## 1572 6.750000e+01

## 1573 1.500000e+01

## 1574 6.600000e+02

## 1575 3.450000e+01

## 1576 4.050000e+02

## 1577 1.617000e+03

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## 1581 5.250000e+02

## 1582 4.750000e+01

## 1583 1.100000e+01

## 1584 8.250000e+01

## 1585 3.630000e+02

## 1586 6.250000e+01

## 1587 9.100000e+00

## 1588 9.000000e+00

## 1589 1.925000e+02

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## 1591 3.000000e+01

## 1592 2.850000e+01

## 1593 7.000000e+00

## 1594 3.800000e+01

## 1595 4.410000e+02

## 1596 9.000000e+01

## 1597 2.833333e+00

## 1598 2.800000e+01

## 1599 7.200000e+00

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## 1602 2.100000e+01

## 1603 5.000000e+00

## 1604 6.500000e+00

## 1605 1.750000e+02

## 1606 1.840000e+02

## 1607 6.800000e+01

## 1608 4.050000e+02

## 1609 5.700000e+01

## 1610 1.950000e+02

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## 1612 6.200000e+01

## 1613 7.600000e+00

## 1614 9.240000e+02

## 1615 4.560000e+02

## 1616 8.400000e+01

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## 1618 3.583333e+00

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## 1621 4.800000e+00

## 1622 3.083333e+00

## 1623 2.400000e+01

## 1624 8.400000e+01

## 1625 5.800000e+01

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## 1633 1.400000e+01

## 1634 1.100000e+01

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## 1636 8.550000e+02

## 1637 7.000000e+00

## 1638 1.500000e+01

## 1639 4.243500e+03

## 1640 1.800000e+01

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## 1642 1.600000e+01

## 1643 1.260000e+02

## 1644 6.000000e+01

## 1645 4.500000e+01

## 1646 2.400000e+01

## 1647 6.800000e+01

## 1648 1.000000e+01

## 1649 2.070000e+02

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## 1655 2.535000e+02

## 1656 3.600000e+02

## 1657 5.800000e+01

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## 1662 1.200000e+01

## 1663 3.400000e+01

## 1664 4.880000e+02

## 1665 6.650000e+01

## 1666 1.800000e+01

## 1667 4.680000e+02

## 1668 4.500000e+01

## 1669 1.440000e+02

## 1670 1.236000e+03

## 1671 7.000000e+00

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## 1673 3.232000e+03

## 1674 7.000000e+00

## 1675 1.620000e+02

## 1676 8.000000e+00

## 1677 5.500000e+01

## 1678 2.800000e+01

## 1679 1.000000e+01

## 1680 4.600000e+01

## 1681 6.000000e+01

## 1682 1.300000e+01

## 1683 5.800000e+01

## 1684 4.400000e+01

## 1685 5.000000e+01

## 1686 1.035000e+02

## 1687 1.300000e+01

## 1688 8.000000e+00

## 1689 5.733333e+00

## 1690 8.000000e+00

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## 1692 1.700000e+01

## 1693 3.800000e+01

## 1694 5.550000e+00

## 1695 2.400000e+01

## 1696 1.350000e+01

## 1697 5.200000e+01

## 1698 8.400000e+01

## 1699 4.320000e+02

## 1700 2.600000e+01

## 1701 4.750000e+01

## 1702 4.500000e+01

## 1703 9.000000e+01

## 1704 1.500000e+01

## 1705 2.100000e+01

## 1706 1.560000e+02

## 1707 2.400000e+01

## 1708 1.067000e+03

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## 1714 2.250000e+01

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## 1716 1.800000e+02

## 1717 1.200000e+01

## 1718 1.300000e+02

## 1719 5.500000e+00

## 1720 4.500000e+01

## 1721 2.250000e+01

## 1722 3.705000e+02

## 1723 1.230000e+02

## 1724 2.550000e+01

## 1725 1.200000e+01

## 1726 7.600000e+01

## 1727 3.080000e+02

## 1728 1.755000e+02

## 1729 1.600000e+02

## 1730 4.500000e+02

## 1731 5.920000e+02

## 1732 1.300000e+01

## 1733 2.860000e+02

## 1734 1.200000e+01

## 1735 6.400000e+01

## 1736 1.520000e+02

## 1737 1.640000e+02

## 1738 4.760000e+02

## 1739 7.000000e+00

## 1740 4.000000e+01

## 1741 9.000000e+00

## 1742 1.092500e+03

## 1743 3.616667e+00

## 1744 6.716667e+00

## 1745 3.000000e+01

## 1746 1.050000e+02

## 1747 2.200000e+01

## 1748 1.140000e+02

## 1749 3.700000e+01

## 1750 2.500000e+01

## 1751 3.760000e+02

## 1752 3.300000e+02

## 1753 6.000000e+00

## 1754 1.400000e+01

## 1755 1.950000e+01

## 1756 3.300000e+02

## 1757 7.466667e+00

## 1758 1.920000e+02

## 1759 4.370000e+02

## 1760 5.250000e+01

## 1761 5.500000e+01

## 1762 5.250000e+01

## 1763 8.200000e+01

## 1764 6.166667e+00

## 1765 3.200000e+02

## 1766 2.600000e+01

## 1767 1.350000e+01

## 1768 4.400000e+01

## 1769 2.070000e+02

## 1770 3.744000e+03

## 1771 6.600000e+01

## 1772 4.800000e+01

## 1773 3.750000e+01

## 1774 5.800000e+01

## 1775 1.950000e+01

## 1776 6.750000e+01

## 1777 5.775000e+02

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## 1779 8.000000e+00

## 1780 2.600000e+01

## 1781 1.600000e+01

## 1782 1.700000e+01

## 1783 1.500000e+01

## 1784 4.050000e+01

## 1785 7.800000e+00

## 1786 1.300000e+01

## 1787 8.233333e+00

## 1788 7.000000e+00

## 1789 5.100000e+01

## 1790 6.880000e+02

## 1791 2.100000e+01

## 1792 5.200000e+01

## 1793 4.266667e+00

## 1794 3.645000e+02

## 1795 1.200000e+01

## 1796 2.600000e+01

## 1797 6.225000e+02

## 1798 3.500000e+00

## 1799 4.200000e+00

## 1800 7.000000e+00

## 1801 3.600000e+01

## 1802 1.950000e+01

## 1803 1.800000e+01

## 1804 2.400000e+01

## 1805 1.350000e+01

## 1806 2.040000e+02

## 1807 1.320000e+02

## 1808 7.800000e+01

## 1809 3.750000e+01

## 1810 4.433333e+00

## 1811 2.800000e+01

## 1812 2.700000e+01

## 1813 2.600000e+01

## 1814 2.250000e+01

## 1815 1.400000e+01

## 1816 7.000000e+00

## 1817 6.000000e+01

## 1818 9.816667e+00

## 1819 1.900000e+01

## 1820 3.750000e+01

## 1821 1.170000e+02

## 1822 9.500000e+01

## 1823 3.600000e+01

## 1824 7.600000e+01

## 1825 1.000000e+01

## 1826 7.560000e+02

## 1827 1.330000e+02

## 1828 1.400000e+01

## 1829 2.850000e+01

## 1830 1.350000e+02

## 1831 2.200000e+01

## 1832 6.966667e+00

## 1833 9.225000e+02

## 1834 2.400000e+01

## 1835 7.700000e+00

## 1836 3.640000e+02

## 1837 7.560000e+02

## 1838 1.155000e+02

## 1839 6.200000e+01

## 1840 1.087500e+03

## 1841 5.280000e+02

## 1842 9.566667e+00

## 1843 2.750000e+02

## 1844 9.600000e+01

## 1845 5.500000e+00

## 1846 9.450000e+02

## 1847 6.716667e+00

## 1848 6.800000e+01

## 1849 1.620000e+02

## 1850 1.980000e+02

## 1851 1.120000e+02

## 1852 1.110000e+02

## 1853 3.850000e+02

## 1854 1.040000e+02

## 1855 7.250000e+01

## 1856 1.290000e+02

## 1857 2.150000e+01

## 1858 4.000000e+01

## 1859 5.000000e+00

## 1860 2.250000e+02

## 1861 1.200000e+01

## 1862 2.750000e+01

## 1863 6.750000e+01

## 1864 6.833333e+00

## 1865 1.300000e+01

## 1866 2.940000e+02

## 1867 1.078000e+03

## 1868 3.750000e+01

## 1869 5.100000e+01

## 1870 4.500000e+01

## 1871 5.200000e+01

## 1872 7.750000e+01

## 1873 4.600000e+01

## 1874 1.300000e+01

## 1875 4.400000e+01

## 1876 6.600000e+01

## 1877 1.610000e+02

## 1878 7.000000e+01

## 1879 1.048000e+03

## 1880 9.450000e+01

## 1881 1.140000e+02

## 1882 6.500000e+01

## 1883 7.333333e+00

## 1884 2.400000e+01

## 1885 7.200000e+01

## 1886 1.400000e+01

## 1887 3.450000e+01

## 1888 1.200000e+01

## 1889 6.300000e+01

## 1890 2.340000e+02

## 1891 1.480000e+02

## 1892 2.170000e+02

## 1893 8.000000e+00

## 1894 2.550000e+01

## 1895 1.200000e+01

## 1896 2.000000e+01

## 1897 4.275000e+02

## 1898 8.250000e+01

## 1899 4.000000e+01

## 1900 1.400000e+01

## 1901 1.320000e+02

## 1902 4.200000e+01

## 1903 2.200000e+02

## 1904 9.000000e+00

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## 1906 1.414500e+03

## 1907 2.600000e+01

## 1908 1.200000e+02

## 1909 1.050000e+01

## 1910 9.000000e+01

## 1911 1.100000e+02

## 1912 1.600000e+02

## 1913 9.000000e+00

## 1914 2.805000e+02

## 1915 9.825000e+02

## 1916 1.960000e+02

## 1917 4.200000e+01

## 1918 1.020000e+02

## 1919 6.000000e+00

## 1920 1.600000e+01

## 1921 8.000000e+00

## 1922 4.800000e+01

## 1923 1.980000e+02

## 1924 5.333333e+00

## 1925 6.150000e+01

## 1926 1.920000e+02

## 1927 5.100000e+01

## 1928 9.450000e+01

## 1929 5.800000e+01

## 1930 3.600000e+01

## 1931 5.000000e+00

## 1932 3.750000e+01

## 1933 3.500000e+01

## 1934 6.250000e+01

## 1935 1.035000e+02

## 1936 1.160000e+02

## 1937 6.750000e+01

## 1938 2.900000e+00

## 1939 9.000000e+00

## 1940 1.800000e+01

## 1941 2.250000e+01

## 1942 4.500000e+01

## 1943 9.100000e+00

## 1944 1.100000e+01

## 1945 1.050000e+02

## 1946 2.600000e+01

## 1947 4.400000e+01

## 1948 3.400000e+01

## 1949 7.366667e+00

## 1950 8.550000e+01

## 1951 4.200000e+01

## 1952 1.820000e+02

## 1953 2.400000e+01

## 1954 3.100000e+01

## 1955 5.600000e+02

## 1956 4.350000e+01

## 1957 1.000000e+01

## 1958 5.290000e+02

## 1959 2.100000e+01

## 1960 2.900000e+01

## 1961 2.997000e+03

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## 1963 3.700000e+02

## 1964 2.655000e+02

## 1965 2.500000e+01

## 1966 3.450000e+01

## 1967 2.850000e+01

## 1968 3.800000e+01

## 1969 1.418333e+01

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## 1972 2.100000e+01

## 1973 9.300000e+01

## 1974 3.575000e+02

## 1975 6.290000e+02

## 1976 1.000000e+01

## 1977 1.740000e+02

## 1978 3.100000e+01

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## 1980 1.086000e+04

## 1981 1.292000e+03

## 1982 9.600000e+01

## 1983 1.054000e+04

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## 1985 9.021000e+03

## 1986 5.100000e+01

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## 1989 1.426000e+03

## 1990 1.224000e+03

## 1991 8.910000e+02

## 1992 5.250000e+01

## 1993 3.900000e+01

## 1994 1.700000e+01

## 1995 7.050000e+01

## 1996 8.750000e+01

## 1997 1.800000e+01

## 1998 1.980000e+02

## 1999 1.035000e+02

## 2000 1.600000e+01

## 2001 3.600000e+01

## 2002 4.800000e+01

## 2003 8.400000e+01

## 2004 1.646667e+01

## 2005 1.040000e+02

## 2006 2.550000e+01

## 2007 3.250000e+02

## 2008 4.200000e+01

## 2009 2.500000e+01

## 2010 7.250000e+01

## 2011 7.500000e+00

## 2012 3.000000e+01

## 2013 2.875000e+02

## 2014 4.400000e+01

## 2015 3.000000e+01

## 2016 1.550000e+02

## 2017 2.260000e+02

## 2018 1.700000e+01

## 2019 2.254000e+03

## 2020 2.100000e+01

## 2021 3.300000e+01

## 2022 4.100000e+01

## 2023 2.240000e+02

## 2024 6.384000e+03

## 2025 4.200000e+01

## 2026 6.400000e+01

## 2027 3.900000e+01

## 2028 9.000000e+01

## 2029 6.000000e+00

## 2030 2.400000e+01

## 2031 1.000000e+01

## 2032 1.973333e+01

## 2033 1.050000e+02

## 2034 4.800000e+01

## 2035 4.300000e+01

## 2036 3.000000e+01

## 2037 3.750000e+02

## 2038 4.235000e+02

## 2039 8.925000e+02

## 2040 5.520000e+03

## 2041 2.250000e+01

## 2042 1.260000e+02

## 2043 2.550000e+01

## 2044 2.050000e+02

## 2045 1.500000e+01

## 2046 6.160000e+02

## 2047 2.100000e+01

## 2048 3.150000e+01

## 2049 1.540000e+01

## 2050 2.500000e+01

## 2051 1.300000e+01

## 2052 5.120000e+02

## 2053 5.200000e+01

## 2054 1.100000e+01

## 2055 1.710000e+02

## 2056 6.000000e+00

## 2057 4.350000e+01

## 2058 5.340000e+02

## 2059 6.000000e+01

## 2060 2.800000e+01

## 2061 1.500000e+02

## 2062 1.295000e+02

## 2063 1.000000e+01

## 2064 4.420000e+02

## 2065 1.066667e+01

## 2066 2.650000e+02

## 2067 3.900000e+02

## 2068 5.000000e+02

## 2069 3.300000e+01

## 2070 3.200000e+02

## 2071 1.530000e+02

## 2072 4.500000e+01

## 2073 1.050000e+02

## 2074 8.000000e+00

## 2075 2.700000e+01

## 2076 2.440000e+02

## 2077 1.700000e+02

## 2078 2.500000e+01

## 2079 6.416667e+00

## 2080 1.680000e+02

## 2081 6.000000e+00

## 2082 1.100000e+01

## 2083 5.250000e+00

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## 2085 2.600000e+01

## 2086 3.300000e+01

## 2087 4.400000e+00

## 2088 5.100000e+01

## 2089 2.600000e+01

## 2090 2.700000e+01

## 2091 1.400000e+01

## 2092 4.800000e+01

## 2093 1.020000e+02

## 2094 1.950000e+01

## 2095 1.820000e+02

## 2096 8.000000e+00

## 2097 3.990000e+02

## 2098 9.450000e+01

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## 2101 1.170000e+02

## 2102 9.750000e+01

## 2103 1.088000e+03

## 2104 1.525000e+02

## 2105 3.800000e+01

## 2106 1.480000e+02

## 2107 3.410000e+02

## 2108 1.440000e+02

## 2109 2.400000e+01

## 2110 1.230000e+02

## 2111 1.400000e+01

## 2112 1.000000e+01

## 2113 2.000000e+01

## 2114 1.650000e+01

## 2115 1.000000e+01

## 2116 2.000000e+02

## 2117 1.050000e+01

## 2118 3.600000e+01

## 2119 1.320000e+01

## 2120 1.200000e+01

## 2121 2.065000e+02

## 2122 3.800000e+01

## 2123 1.380000e+01

## 2124 6.000000e+01

## 2125 2.700000e+01

## 2126 3.750000e+01

## 2127 1.170000e+02

## 2128 1.925000e+02

## 2129 2.295000e+02

## 2130 4.650000e+01

## 2131 7.350000e+01

## 2132 4.500000e+01

## 2133 2.500000e+01

## 2134 1.400000e+01

## 2135 5.500000e+01

## 2136 9.250000e+01

## 2137 9.100000e+01

## 2138 9.200000e+01

## 2139 6.900000e+01

## 2140 2.100000e+01

## 2141 1.500000e+01

## 2142 2.485000e+02

## 2143 3.660000e+02

## 2144 8.100000e+01

## 2145 4.950000e+00

## 2146 2.100000e+01

## 2147 9.000000e+00

## 2148 5.000000e+01

## 2149 1.080000e+02

## 2150 2.550000e+01

## 2151 1.300000e+01

## 2152 1.100000e+01

## 2153 6.900000e+01

## 2154 5.400000e+01

## 2155 1.152000e+03

## 2156 2.300000e+02

## 2157 2.240000e+02

## 2158 4.800000e+00

## 2159 4.545000e+02

## 2160 6.080000e+02

## 2161 6.400000e+00

## 2162 1.500000e+01

## 2163 9.000000e+00

## 2164 2.485000e+02

## 2165 1.170000e+02

## 2166 1.350000e+01

## 2167 6.000000e+02

## 2168 3.600000e+01

## 2169 6.600000e+01

## 2170 1.400000e+02

## 2171 9.000000e+00

## 2172 1.174200e+04

## 2173 9.900000e+02

## 2174 6.800000e+01

## 2175 2.550000e+01

## 2176 1.950000e+01

## 2177 7.200000e+01

## 2178 2.096667e+01

## 2179 6.900000e+01

## 2180 4.000000e+01

## 2181 5.000000e+01

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## 2183 8.400000e+01

## 2184 1.620000e+02

## 2185 6.050000e+00

## 2186 2.700000e+01

## 2187 1.475000e+02

## 2188 8.610000e+02

## 2189 2.257500e+03

## 2190 2.850000e+01

## 2191 5.250000e+01

## 2192 1.610000e+02

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## 2194 9.500000e+01

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## 2196 9.095000e+02

## 2197 1.330000e+02

## 2198 4.750000e+02

## 2199 2.905000e+02

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## 2201 6.790000e+02

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## 2203 6.450000e+00

## 2204 3.600000e+01

## 2205 1.230000e+02

## 2206 5.500000e+01

## 2207 7.500000e+01

## 2208 2.200000e+01

## 2209 8.050000e+01

## 2210 1.590000e+02

## 2211 5.100000e+01

## 2212 1.123500e+03

## 2213 1.920000e+02

## 2214 6.800000e+01

## 2215 9.000000e+01

## 2216 6.800000e+01

## 2217 3.150000e+02

## 2218 1.260000e+02

## 2219 7.333333e+00

## 2220 5.600000e+01

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## 2222 3.700000e+00

## 2223 1.100000e+01

## 2224 1.650000e+01

## 2225 1.000000e+01

## 2226 2.700000e+01

## 2227 7.000000e+00

## 2228 2.700000e+01

## 2229 3.000000e+01

## 2230 1.800000e+01

## 2231 6.890000e+02

## 2232 1.175000e+02

## 2233 5.400000e+01

## 2234 1.065000e+02

## 2235 6.000000e+00

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## 2237 3.150000e+02

## 2238 1.600000e+01

## 2239 1.800000e+01

## 2240 2.070000e+02

## 2241 1.300000e+01

## 2242 2.200000e+01

## 2243 3.775000e+02

## 2244 7.650000e+02

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## 2246 1.300000e+01

## 2247 1.325000e+02

## 2248 4.933333e+00

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## 2250 1.080000e+02

## 2251 3.200000e+01

## 2252 3.750000e+01

## 2253 6.400000e+01

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## 2258 2.145000e+02

## 2259 5.700000e+01

## 2260 3.900000e+01

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## 2262 1.000000e+01

## 2263 2.025000e+02

## 2264 1.650000e+01

## 2265 1.440000e+02

## 2266 1.400000e+01

## 2267 5.000000e+00

## 2268 2.200000e+01

## 2269 4.800000e+01

## 2270 3.600000e+01

## 2271 2.730000e+02

## 2272 1.170000e+02

## 2273 1.123500e+03

## 2274 2.700000e+01

## 2275 3.680000e+02

## 2276 3.850000e+02

## 2277 2.750000e+01

## 2278 3.000000e+01

## 2279 1.200000e+01

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## 2282 9.100000e+01

## 2283 2.250000e+01

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## 2285 1.935000e+02

## 2286 3.465000e+02

## 2287 2.880000e+02

## 2288 3.750000e+01

## 2289 1.200000e+02

## 2290 4.880000e+02

## 2291 1.300000e+01

## 2292 2.850000e+01

## 2293 1.760000e+02

## 2294 5.720000e+02

## 2295 1.650000e+01

## 2296 1.800000e+02

## 2297 3.280000e+02

## 2298 9.000000e+00

## 2299 4.730000e+02

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## 2303 8.000000e+00

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## 2306 8.750000e+01

## 2307 9.100000e+02

## 2308 6.150000e+01

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## 2315 1.800000e+01

## 2316 5.100000e+01

## 2317 8.050000e+01

## 2318 3.000000e+02

## 2319 1.080000e+02

## 2320 9.450000e+02

## 2321 4.500000e+01

## 2322 3.360000e+02

## 2323 4.500000e+01

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## 2325 3.800000e+01

## 2326 7.950000e+01

## 2327 1.078000e+03

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## 2336 2.250000e+01

## 2337 1.100000e+01

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## 2343 1.050000e+02

## 2344 4.250000e+01

## 2345 1.120000e+02

## 2346 3.900000e+01

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## 2348 9.500000e+01

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## 2351 9.000000e+00

## 2352 3.200000e+02

## 2353 3.200000e+01

## 2354 1.000000e+01

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## 2356 1.800000e+01

## 2357 2.800000e+01

## 2358 1.200000e+01

## 2359 2.700000e+01

## 2360 1.600000e+01

## 2361 2.550000e+01

## 2362 1.025000e+02

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## 2364 1.650000e+01

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## 2367 1.100000e+01

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## 2369 1.400000e+01

## 2370 2.666667e+00

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## 2372 1.650000e+01

## 2373 3.280000e+02

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## 2377 8.700000e+01

## 2378 2.200000e+00

## 2379 1.950000e+01

## 2380 2.700000e+01

## 2381 8.600000e+01

## 2382 4.800000e+01

## 2383 6.370000e+02

## 2384 1.100000e+01

## 2385 1.050000e+02

## 2386 6.000000e+00

## 2387 1.140000e+02

## 2388 1.400000e+01

## 2389 4.730000e+02

## 2390 1.035000e+02

## 2391 3.400000e+00

## 2392 1.225000e+02

## 2393 2.100000e+01

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## 2395 2.500000e+00

## 2396 3.000000e+00

## 2397 7.150000e+00

## 2398 3.200000e+01

## 2399 3.200000e+00

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## 2401 4.433333e+00

## 2402 7.000000e+01

## 2403 3.300000e+00

## 2404 4.666667e+00

## 2405 6.716667e+00

## 2406 2.583333e+00

## 2407 1.400000e+01

## 2408 9.000000e+00

## 2409 3.446667e+01

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## 2412 1.100000e+01

## 2413 1.050000e+01

## 2414 1.360000e+02

## 2415 4.900000e+01

## 2416 2.250000e+01

## 2417 1.440000e+02

## 2418 5.550000e+00

## 2419 3.450000e+01

## 2420 9.000000e+00

## 2421 1.200000e+01

## 2422 4.650000e+01

## 2423 3.000000e+01

## 2424 7.600000e+01

## 2425 4.185000e+02

## 2426 4.150000e+02

## 2427 2.120000e+02

## 2428 2.200000e+01

## 2429 3.600000e+01

## 2430 1.225000e+02

## 2431 3.600000e+01

## 2432 6.500000e+00

## 2433 8.750000e+01

## 2434 6.000000e+01

## 2435 9.000000e+01

## 2436 9.200000e+01

## 2437 2.205000e+02

## 2438 1.820000e+02

## 2439 4.800000e+00

## 2440 9.250000e+00

## 2441 1.290000e+02

## 2442 5.750000e+01

## 2443 3.000000e+01

## 2444 1.980000e+01

## 2445 1.650000e+01

## 2446 2.550000e+01

## 2447 3.800000e+01

## 2448 2.170000e+01

## 2449 3.200000e+01

## 2450 5.200000e+01

## 2451 1.500000e+01

## 2452 2.550000e+01

## 2453 7.200000e+01

## 2454 8.100000e+01

## 2455 1.900000e+01

## 2456 6.250000e+01

## 2457 8.000000e+00

## 2458 2.800000e+01

## 2459 1.100000e+01

## 2460 6.360000e+02

## 2461 6.800000e+00

## 2462 4.095000e+02

## 2463 1.980000e+02

## 2464 4.200000e+01

## 2465 1.920000e+02

## 2466 3.600000e+01

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## 2468 9.200000e+01

## 2469 1.155000e+02

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## 2471 1.085000e+02

## 2472 2.590000e+01

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## 2474 7.000000e+00

## 2475 5.100000e+01

## 2476 3.600000e+01

## 2477 6.900000e+01

## 2478 6.900000e+01

## 2479 9.600000e+01

## 2480 1.562500e+03

## 2481 2.880000e+02

## 2482 1.162500e+03

## 2483 3.190000e+02

## 2484 1.480000e+02

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## 2486 3.250000e+02

## 2487 6.786000e+03

## 2488 2.145000e+02

## 2489 4.690000e+02

## 2490 3.780000e+02

## 2491 2.850000e+01

## 2492 3.280000e+02

## 2493 1.120000e+02

## 2494 5.520000e+02

## 2495 1.650000e+02

## 2496 2.100000e+01

## 2497 8.700000e+01

## 2498 2.120000e+02

## 2499 2.450000e+02

## 2500 2.940000e+02

## 2501 1.306500e+04

## 2502 1.700000e+01

## 2503 1.282500e+03

## 2504 1.080000e+03

## 2505 9.450000e+02

## 2506 1.202500e+03

## 2507 3.850000e+02

## 2508 3.249000e+03

## 2509 9.150000e+02

## 2510 1.824500e+03

## 2511 1.500000e+02

## 2512 9.990000e+02

## 2513 9.100000e+01

## 2514 7.950000e+03

## 2515 1.260000e+02

## 2516 2.080000e+02

## 2517 3.400000e+01

## 2518 1.073000e+03

## 2519 5.400000e+01

## 2520 4.750000e+01

## 2521 2.400000e+01

## 2522 8.100000e+01

## 2523 2.250000e+01

## 2524 1.000000e+01

## 2525 1.720000e+02

## 2526 8.000000e+00

## 2527 3.360000e+02

## 2528 1.540000e+02

## 2529 8.050000e+01

## 2530 2.400000e+01

## 2531 1.347500e+03

## 2532 1.600000e+01

## 2533 7.000000e+01

## 2534 1.600000e+01

## 2535 6.000000e+02

## 2536 2.000000e+01

## 2537 8.075000e+02

## 2538 4.500000e+01

## 2539 4.160000e+02

## 2540 1.085000e+02

## 2541 3.840000e+02

## 2542 7.350000e+02

## 2543 6.250000e+01

## 2544 1.100000e+01

## 2545 3.000000e+01

## 2546 1.475000e+02

## 2547 1.123500e+03

## 2548 6.400000e+01

## 2549 6.000000e+01

## 2550 2.250000e+01

## 2551 5.840000e+02

## 2552 9.000000e+02

## 2553 4.000000e+03

## 2554 7.260000e+02

## 2555 2.925000e+02

## 2556 3.105000e+02

## 2557 7.565000e+02

## 2558 8.370000e+02

## 2559 1.660000e+03

## 2560 3.300000e+01

## 2561 3.710000e+02

## 2562 9.600000e+01

## 2563 1.600000e+02

## 2564 2.593500e+03

## 2565 8.250000e+02

## 2566 3.519000e+03

## 2567 9.600000e+02

## 2568 1.353000e+03

## 2569 1.290000e+02

## 2570 6.000000e+02

## 2571 1.129500e+04

## 2572 6.930000e+02

## 2573 6.831000e+03

## 2574 1.440000e+03

## 2575 2.500000e+01

## 2576 4.600000e+01

## 2577 2.400000e+01

## 2578 5.100000e+01

## 2579 1.067000e+03

## 2580 1.900000e+01

## 2581 1.505000e+02

## 2582 1.200000e+02

## 2583 6.000000e+02

## 2584 1.160000e+02

## 2585 1.190000e+02

## 2586 9.430000e+02

## 2587 4.000000e+01

## 2588 1.200000e+01

## 2589 1.100000e+01

## 2590 6.000000e+01

## 2591 2.490000e+02

## 2592 1.200000e+01

## 2593 2.550000e+01

## 2594 1.120000e+02

## 2595 3.800000e+01

## 2596 7.600000e+01

## 2597 1.890000e+03

## 2598 1.240000e+02

## 2599 2.700000e+01

## 2600 7.250000e+01

## 2601 8.400000e+01

## 2602 3.600000e+01

## 2603 8.000000e+01

## 2604 6.400000e+01

## 2605 1.260000e+02

## 2606 1.395000e+02

## 2607 2.000000e+01

## 2608 1.890000e+02

## 2609 1.000000e+01

## 2610 8.000000e+00

## 2611 7.200000e+01

## 2612 2.437500e+03

## 2613 6.435000e+02

## 2614 2.724000e+04

## 2615 1.322500e+03

## 2616 2.200000e+02

## 2617 5.400000e+02

## 2618 3.010000e+02

## 2619 2.029500e+03

## 2620 2.000000e+01

## 2621 3.300000e+01

## 2622 6.322500e+03

## 2623 1.512000e+03

## 2624 3.600000e+01

## 2625 5.110000e+02

## 2626 1.200000e+02

## 2627 4.235000e+02

## 2628 1.050000e+02

## 2629 4.000000e+01

## 2630 1.200000e+01

## 2631 1.800000e+01

## 2632 4.200000e+01

## 2633 9.300000e+01

## 2634 1.400000e+01

## 2635 6.400000e+02

## 2636 2.024000e+03

## 2637 3.978000e+03

## 2638 3.900000e+02

## 2639 2.941500e+03

## 2640 1.824500e+03

## 2641 2.925000e+02

## 2642 3.000000e+02

## 2643 1.116500e+03

## 2644 2.314000e+03

## 2645 4.505000e+02

## 2646 5.780000e+02

## 2647 2.950000e+02

## 2648 7.000000e+00

## 2649 3.375000e+02

## 2650 1.522500e+03

## 2651 3.150000e+01

## 2652 9.600000e+01

## 2653 2.580000e+02

## 2654 9.100000e+02

## 2655 4.400000e+00

## 2656 1.400000e+02

## 2657 4.750000e+01

## 2658 1.650000e+01

## 2659 3.300000e+01

## 2660 8.600000e+01

## 2661 3.000000e+01

## 2662 1.410000e+02

## 2663 6.300000e+02

## 2664 2.550000e+01

## 2665 3.740000e+02

## 2666 9.100000e+01

## 2667 2.000000e+01

## 2668 5.200000e+01

## 2669 3.000000e+01

## 2670 3.250000e+02

## 2671 6.900000e+01

## 2672 3.600000e+01

## 2673 6.000000e+01

## 2674 2.115000e+02

## 2675 2.565000e+02

## 2676 6.500000e+01

## 2677 2.280000e+02

## 2678 2.850000e+01

## 2679 1.140000e+02

## 2680 1.204000e+03

## 2681 3.400000e+01

## 2682 4.200000e+02

## 2683 1.200000e+01

## 2684 1.300000e+01

## 2685 1.400000e+02

## 2686 3.000000e+01

## 2687 1.300000e+01

## 2688 9.000000e+01

## 2689 1.122000e+03

## 2690 9.500000e+01

## 2691 1.160000e+02

## 2692 5.600000e+01

## 2693 2.470000e+02

## 2694 1.200000e+01

## 2695 9.086000e+03

## 2696 9.600000e+01

## 2697 4.235500e+03

## 2698 5.103000e+03

## 2699 1.999500e+03

## 2700 1.640000e+02

## 2701 2.220000e+03

## 2702 5.417500e+03

## 2703 4.400000e+02

## 2704 7.380000e+02

## 2705 2.900000e+02

## 2706 3.567000e+03

## 2707 2.102500e+03

## 2708 3.466550e+04

## 2709 5.940000e+02

## 2710 1.638000e+03

## 2711 2.061500e+03

## 2712 2.365000e+02

## 2713 4.230000e+03

## 2714 7.830000e+02

## 2715 1.632000e+03

## 2716 7.750000e+02

## 2717 1.015000e+02

## 2718 2.112000e+03

## 2719 5.500000e+01

## 2720 1.170000e+02

## 2721 1.417000e+03

## 2722 1.470000e+02

## 2723 3.000000e+01

## 2724 1.560000e+02

## 2725 9.000000e+00

## 2726 1.300000e+01

## 2727 2.500000e+01

## 2728 2.600000e+01

## 2729 2.400000e+01

## 2730 4.260000e+02

## 2731 2.000000e+01

## 2732 2.960000e+02

## 2733 1.200000e+01

## 2734 2.280000e+03

## 2735 2.400000e+01

## 2736 1.155000e+02

## 2737 3.510000e+03

## 2738 1.000500e+03

## 2739 2.891000e+03

## 2740 9.600000e+01

## 2741 7.800000e+01

## 2742 4.050000e+02

## 2743 2.250000e+01

## 2744 4.900000e+02

## 2745 4.750000e+01

## 2746 5.750000e+01

## 2747 4.000000e+01

## 2748 1.700000e+01

## 2749 1.340000e+04

## 2750 1.700000e+01

## 2751 2.216500e+03

## 2752 2.220000e+02

## 2753 3.240000e+02

## 2754 1.200000e+02

## 2755 8.550000e+01

## 2756 8.750000e+01

## 2757 9.250000e+01

## 2758 8.100000e+01

## 2759 7.990000e+02

## 2760 2.950000e+02

## 2761 4.150000e+02

## 2762 1.650000e+02

## 2763 1.200000e+01

## 2764 4.666667e+00

## 2765 6.600000e+02

## 2766 1.000000e+02

## 2767 2.100000e+01

## 2768 1.500000e+01

## 2769 1.950000e+01

## 2770 2.000000e+01

## 2771 1.100000e+02

## 2772 1.560000e+02

## 2773 3.420000e+02

## 2774 1.620000e+02

## 2775 1.665000e+02

## 2776 2.160000e+02

## 2777 4.200000e+02

## 2778 2.331000e+03

## 2779 2.400000e+01

## 2780 1.800000e+01

## 2781 3.900000e+02

## 2782 1.000000e+01

## 2783 2.100000e+01

## 2784 9.000000e+01

## 2785 7.500000e+01

## 2786 3.900000e+01

## 2787 1.400000e+02

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## 2795 1.441000e+03

## 2796 2.550000e+02

## 2797 8.730000e+02

## 2798 1.755000e+02

## 2799 9.800000e+01

## 2800 9.300000e+01

## 2801 3.300000e+01

## 2802 6.400000e+01

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## 2804 2.001000e+03

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## 2806 2.585000e+02

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## 2808 5.000000e+01

## 2809 1.072500e+04

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## 2811 1.116000e+03

## 2812 8.835000e+02

## 2813 6.300000e+01

## 2814 1.430000e+03

## 2815 1.840000e+02

## 2816 2.000000e+01

## 2817 3.450000e+01

## 2818 6.000000e+01

## 2819 2.437500e+03

## 2820 3.150000e+01

## 2821 7.030000e+02

## 2822 7.600000e+01

## 2823 1.485000e+02

## 2824 6.600000e+01

## 2825 7.250000e+01

## 2826 1.000000e+01

## 2827 2.000000e+01

## 2828 4.725000e+02

## 2829 3.150000e+01

## 2830 9.250000e+01

## 2831 8.400000e+01

## 2832 9.300000e+01

## 2833 2.160000e+02

## 2834 1.900000e+01

## 2835 3.400000e+01

## 2836 1.540000e+03

## 2837 1.140000e+02

## 2838 1.701000e+03

## 2839 4.480000e+02

## 2840 1.180000e+02

## 2841 7.200000e+01

## 2842 2.400000e+01

## 2843 6.750000e+01

## 2844 5.070000e+02

## 2845 4.650000e+01

## 2846 7.883333e+00

## 2847 1.500000e+01

## 2848 3.500000e+01

## 2849 1.880000e+02

## 2850 1.330000e+02

## 2851 6.825000e+02

## 2852 9.000000e+00

## 2853 1.400000e+02

## 2854 5.600000e+01

## 2855 4.200000e+01

## 2856 4.900000e+00

## 2857 6.300000e+01

## 2858 7.200000e+01

## 2859 2.100000e+02

## 2860 1.309500e+03

## 2861 2.750000e+01

## 2862 1.200000e+01

## 2863 1.233333e+01

## 2864 1.230000e+02

## 2865 3.733333e+00

## 2866 1.400000e+02

## 2867 3.600000e+01

## 2868 2.400000e+01

## 2869 7.020000e+02

## 2870 5.200000e+01

## 2871 3.600000e+01

## 2872 1.230000e+02

## 2873 3.300000e+01

## 2874 3.600000e+01

## 2875 1.200000e+01

## 2876 2.400000e+01

## 2877 3.200000e+01

## 2878 7.500000e+01

## 2879 2.000000e+01

## 2880 2.800000e+01

## 2881 1.222000e+03

## 2882 3.000000e+01

## 2883 2.200000e+01

## 2884 1.360000e+02

## 2885 4.480000e+02

## 2886 8.100000e+02

## 2887 2.600000e+01

## 2888 5.000000e+01

## 2889 1.015000e+02

## 2890 6.400000e+00

## 2891 6.000000e+01

## 2892 1.107000e+03

## 2893 8.715000e+02

## 2894 9.800000e+01

## 2895 4.400000e+01

## 2896 1.240000e+02

## 2897 1.360000e+02

## 2898 4.800000e+01

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## 2901 1.962500e+03

## 2902 1.500000e+01

## 2903 1.800000e+01

## 2904 1.200000e+01

## 2905 3.900000e+01

## 2906 4.650000e+01

## 2907 5.200000e+01

## 2908 1.300000e+01

## 2909 5.500000e+01

## 2910 1.150000e+03

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## 2913 1.300000e+01

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## 2917 1.155000e+02

## 2918 1.350000e+02

## 2919 3.480000e+02

## 2920 2.310000e+02

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## 2922 9.600000e+01

## 2923 8.000000e+00

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## 2925 6.400000e+01

## 2926 3.150000e+01

## 2927 9.600000e+01

## 2928 2.280000e+02

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## 2930 2.318000e+03

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## 2937 3.300000e+01

## 2938 1.120000e+02

## 2939 2.550000e+01

## 2940 8.400000e+01

## 2941 4.600000e+01

## 2942 4.400000e+01

## 2943 7.500000e+01

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## 2945 5.580000e+02

## 2946 9.750000e+01

## 2947 7.470000e+02

## 2948 2.960000e+02

## 2949 6.820000e+02

## 2950 6.560000e+02

## 2951 6.790000e+02

## 2952 4.783333e+00

## 2953 2.065000e+02

## 2954 2.660000e+02

## 2955 3.750000e+01

## 2956 2.100000e+01

## 2957 3.132500e+03

## 2958 8.400000e+01

## 2959 5.000000e+01

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## 2968 4.900000e+00

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## 2972 2.500000e+01

## 2973 3.850000e+02

## 2974 3.360000e+02

## 2975 1.870000e+02

## 2976 1.300000e+01

## 2977 3.450000e+01

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## 2979 2.720000e+02

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## 2986 1.440000e+02

## 2987 5.866667e+00

## 2988 1.080000e+02

## 2989 9.300000e+01

## 2990 7.800000e+01

## 2991 1.350000e+01

## 2992 1.520000e+02

## 2993 5.800000e+01

## 2994 4.083333e+00

## 2995 2.100000e+02

## 2996 3.800000e+01

## 2997 7.200000e+01

## 2998 1.950000e+01

## 2999 1.140000e+02

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## 3002 4.140000e+02

## 3003 1.820000e+02

## 3004 6.000000e+01

## 3005 2.798700e+04

## 3006 5.550000e+02

## 3007 9.600000e+01

## 3008 3.350000e+02

## 3009 1.900000e+01

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## 3012 1.960000e+02

## 3013 4.000000e+01

## 3014 9.600000e+01

## 3015 7.520000e+02

## 3016 1.263500e+03

## 3017 6.400000e+02

## 3018 1.950000e+02

## 3019 2.400000e+01

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## 3021 1.750000e+03

## 3022 6.200000e+01

## 3023 5.750000e+01

## 3024 2.100000e+01

## 3025 4.750000e+01

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## 3044 1.560000e+02

## 3045 3.850000e+00

## 3046 3.800000e+00

## 3047 7.000000e+01

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## 3052 1.218000e+03

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## 3054 8.250000e+01

## 3055 4.433333e+00

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## 3057 2.400000e+01

## 3058 6.300000e+01

## 3059 5.800000e+01

## 3060 6.720000e+02

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## 3064 2.550000e+01

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## 3068 2.760000e+02

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## 3071 8.520000e+02

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## 3073 3.000000e+01

## 3074 9.100000e+01

## 3075 3.650000e+02

## 3076 9.750000e+00

## 3077 3.760000e+02

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## 3081 1.500000e+02

## 3082 1.870000e+02

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## 3086 3.317000e+03

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## 3091 2.090500e+03

## 3092 8.250000e+02

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## 3101 4.050000e+01

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## 3109 4.666667e+00

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## 3111 5.500000e+01

## 3112 2.000000e+01

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## 3116 1.680000e+03

## 3117 1.900000e+01

## 3118 1.800000e+01

## 3119 8.845000e+02

## 3120 8.100000e+02

## 3121 1.312500e+03

## 3122 1.715000e+02

## 3123 7.200000e+01

## 3124 2.700000e+01

## 3125 1.980000e+02

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## 3127 4.060000e+02

## 3128 2.400000e+01

## 3129 4.750000e+01

## 3130 6.000000e+01

## 3131 2.066667e+01

## 3132 8.700000e+01

## 3133 3.966667e+00

## 3134 2.070000e+02

## 3135 9.000000e+01

## 3136 1.720000e+02

## 3137 4.620000e+02

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## 3139 2.768000e+03

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## 3141 1.330000e+02

## 3142 2.937600e+04

## 3143 5.400000e+02

## 3144 8.855000e+02

## 3145 1.950000e+01

## 3146 6.095000e+02

## 3147 1.911000e+03

## 3148 4.500000e+02

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## 3151 2.100000e+01

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## 3154 1.600000e+01

## 3155 3.800000e+01

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## 3157 1.892000e+03

## 3158 1.950000e+01

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## 3161 1.479000e+03

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## 3168 1.400000e+01

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## 3171 3.710000e+02

## 3172 9.250000e+01

## 3173 4.950000e+01

## 3174 9.250000e+00

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## 3176 2.880000e+03

## 3177 1.501500e+03

## 3178 7.625000e+02

## 3179 1.890000e+02

## 3180 1.280000e+02

## 3181 6.290000e+02

## 3182 3.300000e+02

## 3183 3.660000e+02

## 3184 1.980000e+02

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## 3187 1.800000e+02

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## 3190 2.030000e+02

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## 3195 3.600000e+01

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## 3199 6.840000e+02

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## 3216 7.250000e+01

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## 3218 2.530000e+02

## 3219 4.680000e+02

## 3220 1.080000e+02

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## 3225 5.922000e+03

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## 3272 6.300000e+01

## 3273 2.700000e+01

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## 3323 4.800000e+01

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## 3343 2.900000e+01

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## 3493 1.185000e+03

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## 3528 1.550000e+02

## 3529 1.246667e+01

## 3530 1.190000e+02

## 3531 5.666667e+00

## 3532 2.925000e+02

## 3533 8.400000e+01

## 3534 1.505000e+03

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## 3537 5.135000e+02

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## 3539 3.400000e+02

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## 3556 4.500000e+01

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## 3577 8.250000e+02

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## 3583 1.100000e+01

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## 3588 1.015000e+02

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## 3591 2.210000e+02

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## 3593 7.520000e+03

## 3594 5.040000e+02

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## 3598 4.800000e+01

## 3599 5.000000e+01

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## 3601 1.680000e+02

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## 3609 8.000000e+01

## 3610 7.475000e+02

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## 3616 1.600000e+01

## 3617 6.210000e+02

## 3618 5.100000e+02

## 3619 8.625000e+02

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## 3622 8.700000e+02

## 3623 1.800000e+02

## 3624 8.800000e+01

## 3625 3.185000e+02

## 3626 1.076667e+01

## 3627 5.066667e+00

## 3628 4.500000e+01

## 3629 2.300000e+01

## 3630 1.600000e+01

## 3631 1.000000e+01

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## 3633 2.250000e+02

## 3634 1.300000e+01

## 3635 6.933333e+00

## 3636 2.554500e+03

## 3637 1.800000e+01

## 3638 5.590000e+02

## 3639 3.000000e+01

## 3640 1.800000e+01

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## 3642 1.450000e+02

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## 3647 9.000000e+00

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## 3650 3.616667e+00

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## 3653 1.190000e+03

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## 3655 8.360000e+02

## 3656 4.316667e+00

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## 3663 1.680000e+02

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## 3665 1.000000e+01

## 3666 4.400000e+01

## 3667 4.933333e+00

## 3668 6.000000e+00

## 3669 4.666667e+00

## 3670 4.000000e+01

## 3671 1.700000e+01

## 3672 3.300000e+01

## 3673 2.170000e+03

## 3674 4.200000e+01

## 3675 1.470000e+02

## 3676 1.680000e+02

## 3677 1.140000e+02

## 3678 4.000000e+01

tabling the incom, paid, price, level

table(ud$incom)

## < table of extent 0 >

table(ud$paid)

##

## FALSE TRUE

## 310 3368

table(ud$price)

##

## 0 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110

## 310 830 154 166 116 217 83 468 35 75 30 26 81 29 31 19 152 133 11 8

## 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200

## 16 37 30 3 8 10 27 88 2 4 6 5 13 17 6 10 127 295

table(ud$level)

##

## All Levels Beginner Level Expert Level Intermediate Level

## 1929 1270 58 421

#show the no of course title who’s level is all level ## select function will take the given column and shows and filter function will take the filter what we have given

ud %>%

select(course\_title,level) %>%

filter(level=='All Levels')

## course\_title

## 1 Ultimate Investment Banking Course

## 2 Complete GST Course & Certification - Grow Your CA Practice

## 3 Beginner to Pro - Financial Analysis in Excel 2017

## 4 Trading Penny Stocks: A Guide for All Levels In 2017

## 5 Trading Stock Chart Patterns For Immediate, Explosive Gains

## 6 The Only Investment Strategy You Need For Your Retirement

## 7 Forex Trading Secrets of the Pros With Amazon's AWS

## 8 Trading Options With Money Flow

## 9 Financial Management Risk and Return For Securities

## 10 Forex Trading Course: Work Smarter Not Harder Proven Results

## 11 Python Algo Trading: Sentiment Trading with News

## 12 The Complete Chart Pattern Trading Course: A Proven Approach

## 13 7 Deadly Mistakes of Investing that Will Slash Your Profits!

## 14 Winning Forex Trading with Live Forex Trading Examples

## 15 Forex Traders - Create Your First Trading Robot. No Coding!

## 16 Create A Business From Home Trading Stocks Today In 2017

## 17 The Complete Ethereum Course: Get .01 Ether In Your Wallet

## 18 Beginner to Pro in PowerPoint: Complete PowerPoint Training

## 19 Investing 101: The Complete Online Investing Course

## 20 Learn MQL5: Build an 8-Currency Hedging Robot (MetaTrader 5)

## 21 THE Forex Robot: Incredible ROI (Robot Included)

## 22 The Complete Bitcoin Course: Get .001 Bitcoin In Your Wallet

## 23 Mastering High Probability Iron Condor Options Trading

## 24 The Complete Short Course on Ethereum

## 25 Introduction to Finance, Accounting, Modeling and Valuation

## 26 Beginner to Pro in Excel: Financial Modeling and Valuation

## 27 The Complete Investment Banking Course 2017

## 28 The Complete Financial Analyst Course 2017

## 29 Python for Finance: Investment Fundamentals & Data Analytics

## 30 Black Algo Trading: Build Your Trading Robot

## 31 Accounting & Financial Statement Analysis: Complete Training

## 32 Cryptocurrency Trading: Complete Guide To Trading Altcoins

## 33 Forex Robots: Expect To Earn 175% P.A. Forex Robot Included!

## 34 Three Steps Trading - Live Trading - Real Account

## 35 Option Trading for Rookies: Understand Options Completely

## 36 Learn to Trade for Profit: Find and Trade Winning Stocks

## 37 Four Fundamentals of Financial Planning

## 38 Options Trading - Calendar Spread Course for Every Trader

## 39 How to Buy Cheap Options - Options Trading Pricing Model

## 40 Excel Crash Course: Master Excel for Financial Analysis

## 41 Stock Trading Ninja: Complete System For Trading Success

## 42 Hedge and Mutual Fund Careers: The Complete Guide

## 43 Algorithmic Trading In Forex: Create Your First Forex Robot!

## 44 The Power Modeling Bootcamp: Advanced Excel in 10 Days

## 45 How to Win 97% of Your Options Trades

## 46 How I Make Consistent Returns Trading Options

## 47 Forex Strategies: Kelly Criterion, Larry Williams and more!

## 48 Elite Trend Trader: Learn To Trade Stocks, Options & Forex

## 49 The Almost Perfect Options Trading Strategy System - Unique

## 50 Forex Trading - Learn to Trade Forex Like the Banks

## 51 The Most Powerful Options Spread Trading Front Ratio Spread

## 52 What Finance Job is for You? Explanation of 14 Finance Roles

## 53 The Blueprint for Successful Stock Trading

## 54 Start Trading Stocks Using Technical Analysis!

## 55 VPS for Forex Trading - Protect Your Forex Robots

## 56 Using 'The Greeks To Understand Options"

## 57 Trading Options For Consistent Returns: Calendar Spreads

## 58 How to Create Your Personal Budget

## 59 The Complete Value Investing Course: A Proven Approach

## 60 Emini ES Futures - Advanced Non Directional Options Trading

## 61 Learn How To Successfully Trade Stocks: In 5 Simple Steps

## 62 Intermediate Options trading concepts for Stocks and Options

## 63 Trend Traders Club: How To Find And Trade Fast Moving Trends

## 64 High performance Stock Trading using key Options techniques

## 65 Basics of Economics (College Level)

## 66 Straddle Options Trading - Profit in Any Market Direction

## 67 Fundamentals of Forex Trading

## 68 Website Investing 101 - Buying & Selling Online Businesses

## 69 Practical Accounts & Bookkeeping Automated Overview

## 70 Live Account - ETF Trading System - Hacking The Stock Market

## 71 Crash Course on Working Capital Management

## 72 Advanced Accounting A Complete Study for CA / CMA / CFA / CS

## 73 61% Profit In 1 Month - Crush Your Forex Trading Paradigm

## 74 How to create a routine Trading

## 75 Forex Trading Secrets |MT4 Robot (EA) inside, no coding

## 76 Quantitative Aptitude for Banking & Competitive Examinations

## 77 B Com Accountancy I (Paper ECO 02 IGNOU)

## 78 FOREX TRADING - Learn in a quick + profitable way + support

## 79 Auditing Basics (Professional Course Level)

## 80 Transfer Pricing A Complete Analysis

## 81 Accounting: Get Hired Without Work Experience

## 82 Forex Trading for Beginners - Basics

## 83 Basic Bookkeeping Hacks

## 84 Complete Trading Plan Course for Stocks & Forex (10 Hours)

## 85 Intro to Investment Banking, M&A, IPO, Modeling + Free Book

## 86 How to Pick The Right Penny Stocks To Invest In 2017

## 87 Top 10 Trading Ideas in the Equities Market

## 88 Forex Trading MAKE YOUR FIRST TRADE TODAY!

## 89 Save on Your Taxes

## 90 EFT for Stock Options Trading Success & Making Better Trades

## 91 Learn to Trade the Stock Market without Blowing Your Profits

## 92 Fundamentals of Accounting

## 93 RSI, Options Trading & Technical Analysis (3 Course Bundle)

## 94 Stock Options Day Trading Mindset for Success

## 95 Learn to Trade The News

## 96 Value Investing, Taught by Six Superinvestors

## 97 Get Acquired: Learn From The Head Of Acquisitions For eBay

## 98 How to remove 'Risk from Penny Stocks - Options Trading"

## 99 Accounting Basics in 66 Minutes (absolutely for beginners)

## 100 Tax Accounting: Difficult Topic, Made Easy to Understand

## 101 Analysis of Company Financial Statements

## 102 Forex Trading Like Banks â\200“ Step by Step with Live Examples

## 103 Bank Financial Management A Comprehensive Study

## 104 Learn to Trade Forex and Stocks: From Beginner to Advanced

## 105 Master 'Technical Analysis and Chart reading skills Bundle"

## 106 Naked Put Options Trade Covered Call & Poor Man Covered Call

## 107 The Ultimate Guide to Dividend & Dividend Growth Investing

## 108 Charting for Beginners 101: Technical Analysis Demystified

## 109 Build a DCF Valuation Model

## 110 Trade Pullback Candlestick Strategy - Make Consistent Pips

## 111 Accounting Standards Basics (Professional Course Level)

## 112 Option Trading: How to Adjust Delta-Neutral Strangles!

## 113 Profitable binary option trading strategy

## 114 Tax Strategy: Financial Planning for Beginners

## 115 Project Funding Modelling (for Professionals)

## 116 Investing: How I Consistently Beat The Stock Market

## 117 Leasing - A Comprehensive Study (Professional Course Level)

## 118 Financial modeling: Build a DCF equity valuation model

## 119 CryptoArbitrager: Bitcoin Trading Robot (no mining)

## 120 Accounting Is Easy (for Beginners)

## 121 Non Directional Weekly Options Trading System - ETF & Emini

## 122 The Complete Position Trading Course: Position Trading Stock

## 123 A Value Investing Approach to the Stock Market

## 124 Learn how to INVEST for huge profits or make it big trading!

## 125 Mastering Candlestick Charting : High Probability Trading

## 126 Stock Technical Analysis with R

## 127 Get to know the VIX Index (aka 'The Fear Index)"

## 128 Crowdfunding to Win

## 129 Comprehensive Forex Mastery Program

## 130 Succeed in Bonds Even if You Don't Know Where to Start

## 131 Learn to Trade for Profit: Ten Most Profitable Trading Rules

## 132 Succeed in Lotto Even if You Don't Know Where to Start!

## 133 CFA Corporate Finance Level 2

## 134 Pin Bars: The Most Powerful Forex Trading Signal

## 135 Introduction to Options - Strategies For Consistent Profits

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## 137 Basics of Business Statistics (College Level)

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## 140 Financial modeling: Build a multiples valuation model

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## 144 Accounting 101: Learn Business Finance Forecasting in 60mins

## 145 The Securities Trade Lifecycle

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## 147 Investing In Stocks With 10 Simple Rules

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## 149 Cash Flow Valuation: Develop Your Financial Literacy

## 150 Direction-Independ Trading - Elite Forex Traders Strategy

## 151 Financial analysis: Compare performance of companies

## 152 10 Numbers Every Business Owner Should Know

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## 154 IAS 18 - Revenue

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## 160 Advanced Excel functions

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## 163 CAIIB Advanced Bank Management (Part I)

## 164 Aprende a invertir practicando

## 165 Trading con retrocesos de Fibonacci

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## 167 Curso de Trading prÃ¡ctico basado en casos reales

## 168 Curso Avanzado de Trading

## 169 à¸ªà¸­à¸\231à¹\200à¸—à¸£à¸”à¹„à¸šà¸\231à¸²à¸£à¸µà¹\210 à¸­à¹Šà¸­à¸Ÿà¸Šà¸±à¹\210à¸\231à¸­à¸¢à¹\210à¸²à¸‡à¸‡à¹\210à¸²à¸¢

## 170 AnÃ¡lise de ConcessÃ£o de CrÃ©dito

## 171 Technical Analysis Using Elliott Wave Theory

## 172 The Basics Of Volume Analysis

## 173 Crash Course on Cost of Capital and Capital Structuring

## 174 Build a DCF Model from Scratch

## 175 Multiply your returns using 'Value Investing",https://www.udemy.com/multiply-your-returns-using-value-investing/,true,20,1942,19,63,All Levels,4.5 hours,2015-07-23T00:08:33Z\n874284,Weekly Forex Analysis by Baraq FX"

## 176 Mastering Technical Analysis : Maximizing Trading Profits

## 177 The Complete Guide to Professional Trading with Elliott Wave

## 178 A Complete Guide to Becoming a Trader on the Forex Market

## 179 Technical Analysis 101: Secrets of Trading Revealed

## 180 How To Profit From Stock Market Volatility

## 181 WE WILL PAY YOU TO TRADE WITH US

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## 187 Mastering the Market : (Technical Analysis + Candlestick)

## 188 Mastering Countertrend Trading : High Profit Trading Pattern

## 189 \* An Integrated Approach to the Fundamentals of Accounting

## 190 Get to grips with the CFA calculator

## 191 Financial Model Fundamentals-Learn the Essential Skills

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## 195 Financial Management Budgeting Techniques

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## 202 Stock Technical Analysis with Python

## 203 MBA Accounting and Finance for Managers(Paper MS04 of IGNOU)

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## 205 Cost Accounting Marginal Costing Theory and Practice

## 206 The Big Volatility Short: The Best Trade On Wall Street!

## 207 Option selling trading as income source. Beginners friendly

## 208 Introduction to Value Growth Investing

## 209 Become A Forex Trader - Forex trading like a professional

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## 213 Learn About Trading Options from a real wallstreet trader

## 214 Forex Rate -Why it fluctuates -for CA / CMA / CS / CFA Exams

## 215 How to Build a Massive Stock Portfolio from Zero!

## 216 Accounting and Finance for Bankers - A Comprehensive Study

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## 220 Forex Trading vs Option Trading

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## 222 TRADING TACTICS

## 223 Ultimate Retirement: Build Your Own Dynamic Retirement Plan

## 224 build a solid foundation for trading options

## 225 Forex Scam: Avoid the scam today

## 226 Cost Accounting Crash Course

## 227 Option Trading for Rookies: Basic Option Strategies

## 228 Business Analysis: Working with Use Cases

## 229 Learn to Raise the Funds You Need via Crowdfunding

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## 231 Option Trading - How To Earn If You Can't Predict The Market

## 232 The Financial Analyst Skills Training (FAST) course 2017

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## 235 The Passive Investing Blueprint - Build Wealth Passively

## 236 Forex - Elliott Wave Theory with Fibonacci.

## 237 QuickBooks Online: Complete Guide & Certification tips

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## 239 Chart Patterns Trading Demystified

## 240 Financial Planning & Analysis: Building a Company's Budget

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## 242 Forex Trading: Comprehensive & Concise Forex Trading Course

## 243 Leaps Options Trading System - Diagonal Leaps Options Spread

## 244 Technical Analysis tools for Stocks and Options trading

## 245 Quantitative Trading Analysis with R

## 246 Penny Stocks King: How 2 really Trade Penny Stocks (6 Hours)

## 247 Get Started With Penny Stocks -Step by Step Guide to Trading

## 248 CPA 101: How To Master Affiliate Marketing In No Time

## 249 Professional Risk Manager (PRM) Certification: Level 2

## 250 ChalkTalk: Financial Accounting

## 251 The 7 fundamentals to Successful Cashflow Management

## 252 The Investment Banking Recruitment Series

## 253 Business Banking 101

## 254 CFA Level I Workshop 2: Financial Reporting & Analysis I

## 255 Breakout Patterns Workshop by Pattern Trader

## 256 Asset Protection Using Offshore Companies

## 257 How to Pick Stocks

## 258 Accounting 101-Master Class for Understanding Business

## 259 How To Crowdfund

## 260 Master The Stock Market with practice

## 261 IAS 12 - Accounting for Income Taxes (Basics)

## 262 Surpassing Your Kickstarter Goals

## 263 Simple Linear Regression Analysis ( A Complete Course )

## 264 Forex: Learn to Trade Forex and FX Consistently

## 265 Professional Bookkeeping & Accounting 2 - Bank Daybook

## 266 Filing with Companies House UK

## 267 Build, Grow, and Protect Your Assets: A Step-by-Step Guide

## 268 Learn to Trade Forex - from Beginner to Professional

## 269 Investing In Stocks For Big Gains, Fundamental Investing

## 270 Beginners Guide To Ichimoku Trading

## 271 ALGOTECH Hedge Fund Method for Stock Market Trading

## 272 Futures/Commodity Trading

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## 274 Essentials of money value: Get a financial Life !

## 275 Forex how traders beat the markest with little experience

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## 279 Bitcoin - A Comprehensive Guide

## 280 Forex Trading

## 281 The True ' Secret Sauce For Stock Market Success"

## 282 Bookkeeping to Command Senior Bookkeeping Wages

## 283 Take Your Career to the Next Level with MBA Finance

## 284 Accounting Books of Accounts (College Level)

## 285 Forex Trading Profitably

## 286 Learn How to Trade Pump and Dumps. 5 Setups Well Explained.

## 287 Bitcoin Trading 101

## 288 IFRS Financial Reporting

## 289 SAP Crystal Reports:Master-Detail,Cross-Tab,Sub-Reports

## 290 Learn Financial Accounting Different

## 291 CFA Level I Workshop 4: Fixed Income and Equity

## 292 IAS37 - Provisions, Contingents Liabilities & Assets

## 293 What You Should Know to Become a Trader

## 294 Financial Reporting A Comprehensive Study

## 295 Forex Trading Profit 183%p.a : Trend is Our Friend-ALGOTREND

## 296 Financial modeling: Build a forward looking financial model

## 297 Bitcoin or How I Learned to Stop Worrying and Love Crypto

## 298 Accounting Bank Reconciliation Statement (College Level)

## 299 Bitcoin - Ethereum: Trading -Watch me manage my own account!

## 300 FOREX : Learn Technical Analysis

## 301 FastTrack to Stock Trading Strategies

## 302 Algorithmic futures trading - Investing with no experience

## 303 Hedge Fund Accounting and Valuation

## 304 Binary, Forex, Stock and Bitcoin Trading Strategy

## 305 2 Easy Steps To Investment And Avoiding Traps

## 306 Ethereum Course for Investors

## 307 Capital Market Immersion

## 308 Forex Trading :RSI Indicator-A Secret Weapon

## 309 Professional Bookkeeping & Accounting 4:Trial Balance & More

## 310 Forex online live trading system (Special Offer)

## 311 Winning Options Trading System

## 312 Learn The ABC's Of Investing And Understanding True Financial Value

## 313 Handle difficult questions the bank manager will ask you

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## 315 FMT: Forex Market Trader Certificate

## 316 Six Stage Negotiation

## 317 Financial Market Environment & Investment Strategies

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## 319 Evolution and Features of ETFs

## 320 Cost Accounting Operating Costing(Professional Course Level)

## 321 Trade RSI Breakout Strategy: Great Risk/Reward Ratio (Forex)

## 322 Day trading strategy for all level, with 72% success rate

## 323 Accounting, Finance and Banking - A Comprehensive Study

## 324 Advanced Financial Management for CA / CS / CFA /CPA Exams

## 325 Forex Trading Masterclass - Learn To Trade Better

## 326 Python for Trading & Investing

## 327 Stock Market - Swing Trading Strategies for Wall Street

## 328 The Day Trader: Learn to Trade The Stock Market and Forex

## 329 Introduction To The World Of Equity Finance

## 330 Stock Technical Analysis with Excel

## 331 Mortgage Backed Securities

## 332 The Complete Financial Model Builder Course-Build 7 Models

## 333 Fundamental Financial Math

## 334 Equity Swaps

## 335 Proven Methods In Trading Candlestick Patterns

## 336 Investing: How to Fix Hidden Flaws Inside Your Portfolio

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## 338 Trading Biotech Stocks - Understanding the Healthcare Sector

## 339 Indian Contract Act 1872: Must for all Finance Professionals

## 340 Budgeting for Business

## 341 Hot Trading Investing Strategy: ETF and Futures

## 342 Financial Management - A Complete Study

## 343 MQL4 Programming for Traders: Build Robust Trading Robots!

## 344 Ultimate Stock Market Investing: Learn How to Value Stocks

## 345 Successful Day Trading with Fibonacci

## 346 Bitcoin For Beginners: Your Quick Start Guide To Bitcoin

## 347 Technical Analysis 101: Ten Primary Candlestick Reversals

## 348 Financial Analysis: A Recipe for Success

## 349 How to Get Growing, Passive Income from the Fortune 500!

## 350 Managing Budgets in the Public and Non Profit Sector

## 351 How to invest in Forex Trading & add an additional income

## 352 Tax made simple for Limited Company Owners and Contractors

## 353 FX Trading for Beginners

## 354 A Guide To Trade Binary Options Like An Expert

## 355 Numbers for the Business Plan

## 356 Dash Crypto Currency Technical and Trading Overview Bootcamp

## 357 4. Ordinary Simple Annuities: The Basics

## 358 Ø§Ù„Ø¯Ø±Ù\210Ø³ Ø§Ù„ØªØ¹Ù„ÙŠÙ…ÙŠØ© Ù„Ø³Ù\210Ù‚ Ø§Ù„Ù\201Ù\210Ø±ÙƒØ³ Ù\210Ø§Ù„Ø£Ø³Ù\210Ø§Ù‚ Ø§Ù„Ù…Ø§Ù„ÙŠØ© Ø§Ù„Ø£Ø®Ø±Ù‰

## 359 Financial Risk Manager (FRM) Certification: Level II

## 360 Level 1 2014 CFAÂ® Program â\200“ Corporate Finance

## 361 3. Compound Interest

## 362 8. Amortization Schedules

## 363 Finance Fundamentals for Non Finance Leaders

## 364 Easy Forex and Futures Trading

## 365 Trade for Profit: Find-Trade Stocks Successfully Arabic Ø¹Ø±Ø¨ÙŠ

## 366 Trading Forex - L'analyse des volumes

## 367 CPA 10 COMPLETO

## 368 Aprenda CÃ¡lculo Financeiro de Forma Simples

## 369 EstruturaÃ§Ã£o Financeira

## 370 Five steps to becoming a winner in stock investing

## 371 Introduction to Financial Consolidation under IFRS

## 372 How to read a Profit & Loss Account and Balance Sheet

## 373 Learn Bookkeeping From Scratch

## 374 Stock Trading:Â Ultimate Guide to swing trading stocks

## 375 Bookkeeping Systems

## 376 Precious Metal Equities

## 377 Start Now: A Rescue Plan for Retirement Late Savers

## 378 Tradeonomics - Four Steps to Mastering Economic Indicators

## 379 Improve Your Financial Literacy

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## 381 Samuel and Co Trading - Stock & Forex Trading

## 382 Accounting Department's Tips & Tricks - Beginner to Advanced

## 383 Certificate Program In Management Accounting

## 384 How I Trade Forex Successfully

## 385 Professional Trading With Institutional Supply & Demand

## 386 An Introduction to Financial Markets on Wall Street

## 387 The Forex Pivot Points Trading Strategy

## 388 Your Business by the Numbers

## 389 Forex - Trade Gartley with Precision - Complete Strategy

## 390 Bitcoin & Ethereum Course (2 Course Bundle)

## 391 Create Trading Robot Without Coding Skills!

## 392 How to be A High Performance Insurance Broker Part 2

## 393 CFA Level I Workshop 5: Corp Finance, Quants II & Derivative

## 394 Trading News Using Binary Options

## 395 Trading Trends in ANY Market

## 396 Contango VXX - ETF Options Trading - Double Your Investment

## 397 TRADING MARKET MAP

## 398 High Probability Trading Across Any Market: Stocks & Forex

## 399 Option Trading for Rookies: Make & Manage Profitable Trades

## 400 Your First Successful Forex Trades - With Case Studies

## 401 MCA Accountancy and Financial Management -Paper MCS 35 IGNOU

## 402 High-Frequency Trading #1: Basics, History & Strategies

## 403 Level 1 2014 CFAÂ® Program â\200“ Derivatives

## 404 The Complete Investing Guide: How to Beat Wall Street

## 405 Learn Accounting by Specific Examples - Part 1

## 406 How to start a successful career in finance?

## 407 Level 1 2014 CFAÂ® Program â\200“ Equity Investments

## 408 Wealth Management

## 409 Curso Completo del Mercado FOREX

## 410 Como Investir em AÃ§Ãµes para Iniciantes

## 411 Robots de Forex: espere ganar 175%p.a! Incluye Robot de Fx!

## 412 ï¼–æ\231‚é–“ã\201§ã‚¤ãƒ³ã‚¿ãƒ¼ãƒ\220ãƒ³ã‚¯å¸‚å ´ã‚’æ”»ç•¥ï¼\201æœ\200çŸ­è·\235é›¢ã\201§ãƒ\210ãƒ¬ãƒ¼ãƒ‰åŸºç¤ŽåŠ›

## 413 MatemÃ¡tica Financeira de um jeito fÃ¡cil

## 414 Aprenda a Investir no Tesouro Direto Passo a Passo

## 415 Aprende a invertir y deja que tu dinero trabaje para ti

## 416 Flow Management and Forecasting

## 417 CFA Level I Workshop 1: Ethics and Quantitative Methods

## 418 Accounting Basics 101 for Understanding Business

## 419 Mortgage Acceleration

## 420 Stock Market for Beginners. Learn to trade

## 421 CFA Corporate Finance Level 1 (Part 1)

## 422 Trading Tips from Hedge Fund Manager

## 423 IAS 1-Presentation of Financial Statements

## 424 Stock Trading Strategies Using a D.A.R.T.

## 425 The Complete Guide to Forex Trading

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## 427 Trading strategies with common sense technical analysis

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## 429 Business Economics - Basics (College Level)

## 430 Technical Analysis 101: Master the Basics of Trading

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## 432 How to Trade Binary Options Effectively â\200“ All Levels

## 433 Forex Trading using professional indicators by TOP traders

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## 435 Trading Strategies: Find The Trading Strategy That Fits You

## 436 Forex Trading - Learn An Effective Forex Trading Strategy

## 437 Navigate the 10-K and Other Financial Reports

## 438 Bitcoin - The Complete Guide

## 439 Professional Trader's Mindset - Complete Forex Course

## 440 Bitcoin Peer Investing: How To Generate Double Digit Returns

## 441 Forex Breakout Profits: The Definitive Guide

## 442 Investing Internationally into Real Estate, Stocks and Bonds

## 443 Stock Market Mastery

## 444 UK Self Assessment Tax Return Filing Online

## 445 IAS 8-Accounting Policies ,Changes in Accounting Estimates

## 446 CFAÂ® Level 1 2014 â\200“ Financial Reporting and Analysis

## 447 Investment Banking Operations : Securities Trade Life Cycle

## 448 Financial Risk Manager (FRM) Certification: Level I

## 449 IAS 10 - Events After Reporting Date

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## 451 Excel 4 Accounting & Bookkeeping - Master Lookup Functions

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## 453 Forex Basics (Professional Course Level)

## 454 The Holy Grail of Auto Trading Forex Futures Stocks Revealed

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## 456 How To Start Trading Penny Stocks In 10 Easy Steps 2017

## 457 How to Copy the Best Traders on Etoro

## 458 Forex trading made simple

## 459 10. Bonds and Bond Pricing

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## 461 The Fundamentals Of Finance For Non-Finance Professionals

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## 463 Learn How to File Taxes for Uber and Lyft Drivers

## 464 MasterClass-Japanese & Heiken Ashi CandleStick Patterns

## 465 Start Trading Stocks Using Technical Analysis! Part 2

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## 470 Economics: Competition, Elasticity, a little Game Theory

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## 474 Essentials Of Swing Trading Stocks

## 475 Use Crowdfunding Effectively With Indiegogo and Kickstarter

## 476 The Complete Litecoin Crypto Currency Bootcamp

## 477 Bank Reconciliation & VAT on Excel

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## 479 FX Commodity Chart Trading Patterns for Success

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## 482 Kickstarter success in 5 easy steps

## 483 Understanding Financial Statements

## 484 How to achieve personal transformation

## 485 Essentials of money value: Get a financial Life !

## 486 Trade Forex 13 Patterns - Golden Ratios Secret Revealed

## 487 Crystal ball trading - foresee price with seasonal patterns

## 488 Learn to Reliably Invest In The Stock Market

## 489 Debt Collection Management: Get Paid On Time EVERY TIME!

## 490 Learn about it

## 491 Trade the News in Forex: EA Robot Included

## 492 Investment Portfolio Analysis with R

## 493 Seeing the Big Picture: Understanding Financial Statements

## 494 Create Your Own Automated Stock Trading Robot In EXCEL!

## 495 FOREX: From Zero To Hero

## 496 1. Principles of Simple Interest

## 497 Succeed at Options Even If You Don't Know Where to Start

## 498 Buying, Selling, and Storing Precious Metal

## 499 Technical Analysis: Understanding Price Action

## 500 IAS 16-Property,Plant and Equipment

## 501 Basel II

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## 504 Learn Basic Concepts of Economics Step by Step - Complete

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## 508 The Advanced Forex Course for Smart Traders

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## 513 Binary Options Masterclass

## 514 188% Profit in 1Year - Forex ALGO Robot Trading no indicator

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## 520 TopTrader Academy - Complete Options Course

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## 547 Credit Repair from a Financial Institution

## 548 The Binary Institute - Binary Options Trading Course

## 549 Mental Models For Wall Street - Become A Better Trader

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## 551 CÃ³mo Crear PolÃ­ticas Contables bajo NIIF para PYMES

## 552 Socorro! Preciso Organizar as Minhas FinanÃ§as!

## 553 Curso Completo de Opciones Binarias: Estrategias 90% Acierto

## 554 Le basi del Trading

## 555 International Trade and New Geographic Economy

## 556 School of Raising Capital: Agile Financial Modeling

## 557 Intro. to Asset-Backed Securities, CFA Level I, 2017 Prep

## 558 Reach Your Personal Financial Goals the Easy Way (2017 UK)

## 559 Do Your Own Accounts

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## 565 Interpreting financial statements

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## 577 The Psychology of Trading

## 578 Professional Forex Strategy+2 weeks for FREE trading alerts

## 579 Stock Trading Essentials for Day Traders

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## 581 Trade Stocks, Forex & Financial Markets like a Professional

## 582 The Tax Advantaged Investor: A Guide to Legal Tax Reduction!

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## 601 Sell like a Pro: Insider Secrets of Successful Selling!

## 602 3 Little Pigs: A Multiple Timeframe Forex Trading Strategy

## 603 6. Annuities Due and Deferred

## 604 CFAÂ® Level 1 2014 â\200“ Quantitative Methods

## 605 IFRIC 13-Customer Loyalty Programmes (Revenue)

## 606 CFA Level I Workshop 6: Alternatives, PM and Economics

## 607 CFA Level I Workshop 3: Financial Reporting & Analysis II

## 608 Learn Financial Modeling from Scratch - Part 2

## 609 Learn Financial Modeling from Scratch - Part 3

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## 611 Trading AlgorÃ­tmico en Forex: Crea tu primer Robot de Forex!

## 612 Contabilidad Gubernamental en MÃ©xico

## 613 Geld verdienen mit dem Ticken der Uhr, wie Warren Buffett!

## 614 Ð¢Ð¾Ñ\200Ð³Ð¾Ð²Ð»Ñ\217 Ð´ÐµÐ»ÑŒÑ‚Ð°-Ð½ÐµÐ¹Ñ‚Ñ\200Ð°Ð»ÑŒÐ½Ñ‹Ð¼Ð¸ Ñ\201Ñ‚Ñ\200ÐµÐ½Ð³Ð»Ð°Ð¼Ð¸

## 615 Curso de IniciaciÃ³n al Trading

## 616 15 Mandamientos para ganar dinero en Bolsa

## 617 Le bitcoin et la blockchain

## 618 ContabilitÃ  Generale

## 619 Ð¢Ð¾Ñ\200Ð³Ð¾Ð²Ð»Ñ\217 Ð¾Ð¿Ñ†Ð¸Ð¾Ð½Ð°Ð¼Ð¸: ÐšÐ°Ðº Ð·Ð°Ñ\200Ð°Ð±Ð¾Ñ‚Ð°Ñ‚ÑŒ Ð½Ð° Ð²Ð¾Ð»Ð°Ñ‚Ð¸Ð»ÑŒÐ½Ð¾Ñ\201Ñ‚Ð¸

## 620 Estrategias de InversiÃ³n aplicadas al mundo del trading

## 621 ãƒ\220ã‚¤ãƒŠãƒªãƒ¼ã‚ªãƒ—ã‚·ãƒ§ãƒ³å\217–å¼•

## 622 Caza los Enormes Movimientos del Mercado

## 623 GestÃ£o Financeira Para Pequenas e MÃ©dias Empresas

## 624 Curso Completo de Bitcoin - Ganhe 0.00005 Bitcoin

## 625 Tudo sobre Investimentos em Renda Fixa

## 626 Accounting Cycle: Learn the concepts in 60 minutes

## 627 CFAÂ® Level 1 2014 â\200“ FI

## 628 9. Sinking Funds

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## 630 Financial Modeling - Facebook Case Study

## 631 Forex - Help I cant Trade

## 632 Start-up financial modeling for non-finance professionals

## 633 Excel 4 Accounting & Bookkeeping - Master Date,Time & Text

## 634 Breakeven Analysis and Pricing

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## 636 Accounting Simplified

## 637 Accounting and Business Basics

## 638 Aprende a Ganar Dinero en la Bolsa

## 639 PrecificaÃ§Ã£o - Calculando valor de venda baseado nos custos

## 640 Investiere in Tax Liens-Hohe Zinsen gesetzl. festgeschrieben

## 641 Estrategias de trading en bolsa

## 642 Grundlagen der finanziellen UnabhÃ¤ngigkeit

## 643 Wie Du, Dir auch mit kleinen BetrÃ¤gen ein VermÃ¶gen aufbaust

## 644 CFA Level 2- Quantitative Methods

## 645 Learn Wave accounting to maintain books properly

## 646 Making Tax Digital - UK HMRC Legislation Explained

## 647 Cost of Capital and Weighted Average Cost of Capital

## 648 Studying the CFA Program exams (Mandarin language version)

## 649 Condor Broken Wing Butterfly Options Trading Course System

## 650 Learn How To use Channels to find amazing Forex Entries

## 651 Cost Accounting Labour Costing (Professional Course Level)

## 652 Learn How To Successfully Trade Forex: In 5 Simple Steps

## 653 The Intelligent Investor

## 654 Succeed in Futures Even if You Don't Know Where to Start

## 655 Build your own Naked Trading Forex Robot

## 656 Tax Preparation: Learn Fast! Prepare Taxes with Confidence!

## 657 The Ultimate Fibonacci Trading Plan for Forex and Stocks

## 658 Finance and Accounting for Startups

## 659 Forex - Calculate Lot Size Like Pro

## 660 The Complete Forex Trader

## 661 Tape Reading: Learn how to read the tape for day trading

## 662 4 Easy Daily Forex Trades: A Recipe for Trading Success

## 663 Free Options 101 - Basic of Call and Put Options in 1 Hours

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## 665 How to Trade Commodity and Financial Futures for a Living!

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## 667 Complete Short Financial Ratio Course for Financial Analysis

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## 670 Management Accounting A Complete Study

## 671 Become a Career Day Trader: Asian-Pacific Futures Markets

## 672 Equity Products

## 673 Monetizing Your Website: How to Add Cost-Per-Action (CPA)

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## 675 Trade for a Living

## 676 Get out of Debt - The Power of Using Compounding Interest

## 677 Day Trading - Learn to Day Trade / Swing Trade In One Hour.

## 678 Learn to Trade Forex Naked Price Action Wammie Trade

## 679 Fixed Income Securities

## 680 Financial Accounting Made Easy for All

## 681 Ultimate Guide To Trading Engulfing Candlestick Strategy

## 682 Accounting for Depreciation (Collage Level)

## 683 Revealed: Profitable Principles of Successful Traders

## 684 Hedge Fund Trading Systems For Stocks - Part One

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## 686 Crowdfunding for Filmmakers

## 687 Life Coach Business Basics: Finance and Operations

## 688 Learn How to Profit In Forex With Market Rhythms

## 689 Optimizing investment to maximise your return

## 690 Contabilidad rÃ¡pida y eficaz

## 691 Aprenda a Investir seu Dinheiro

## 692 ãƒ\210ãƒ¬ãƒ¼ãƒ‡ã‚£ãƒ³ã‚°ãƒ“ãƒ¥ãƒ¼å¾¹åº•æ”»ç•¥2017å¹´ç‰\210

## 693 Professional Bookkeeping & Accounting 1: Sales & Purchases

## 694 Learn How to Trade The Stock Market

## 695 How To Earn Some Bitcoin Every Time You Use A Search Engine

## 696 Financial Modeling and Valuation: Complete Beginner to Pro

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## 698 Typographic Logo Design in Illustrator - Beginners & Beyond

## 699 Adobe Illustrator T-Shirt Design for Merch by Amazon

## 700 Logo Design in Adobe Illustrator - for Beginners & Beyond

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## 702 Discover How to Draw and paint Comics

## 703 Photoshop in Ease: Create World Amazing Graphic Designs

## 704 Canva Graphics Design Essential Training For Everyone

## 705 Illustrator Quick Tipï¼š10å\210†ã\201§Kawaiiã‚«ãƒ¡ãƒ¬ã‚ªãƒ³ã‚’æ\217\217ã\201“ã\201†

## 706 Deinen Roman setzen mit PagePlus in 10 einfachen Schritten

## 707 Photoshop for Entrepreneurs - Design 11 Practical Projects

## 708 Anatomy for Figure Drawing: Mastering the Human Figure

## 709 Sketch 3 from A to Z: Become an App Designer

## 710 How to Design a Logo - a Beginners Course

## 711 Logo Design Masterclass: Learn Logo Design + Illustrator

## 712 Canva Graphics Design for Entrepreneurs - Design 11 Projects

## 713 Vector Logo Design in Affinity Designer

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## 724 Photoshop para novatos: Â¡desde cero hasta experto!

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## 757 DiseÃ±o GrÃ¡fico fÃ¡cil y rÃ¡pido.

## 758 ØªØµÙ…ÙŠÙ… Ø§Ù„Ù‚Ù\210Ø§Ù„Ø¨ Ø§Ù„Ø¯Ø§Ø¦Ø±ÙŠØ© Ø¨Ø§Ù„Ù\201ÙŠØºØ§Ø³ | Circular Templates Vegas

## 759 Learning Photoshop CC 2015

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## 761 Sketch 3: Design a mobile application from scratch

## 762 Draw a Kitten

## 763 Learn GIMP

## 764 Texturing For Designers - Bring Life to Design With Textures

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## 767 Graphicriver Autor â\200“ Verkaufe deine Designs online

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## 780 The Logo Design Process From Start To Finish

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## 782 Ultimate Guide on Freelancing Career in Photoshop Design

## 783 Photoshop - Como criar FusÃ£o de forma profissional

## 784 Photoshop, Illustrator, InDesign & Graphic Design Principles

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## 786 Photoshopãƒžã‚¹ã‚¿ãƒ¼ã‚³ãƒ¼ã‚¹ã\200\200åŸºç¤Žã\201‹ã‚‰ä¸Šç´šã\201¾ã\201§ã\200\200ã‚¹ãƒ†ãƒƒãƒ—ãƒ\220ã‚¤ã‚¹ãƒ†ãƒƒãƒ—ã\201§Photoshopã\201®ã\201\231ã\201¹ã\201¦ã‚’å­¦ã\201¼ã\201†

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## 850 How To Make Graphics For A Website

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## 873 How to Draw Majestic Animals: Cats

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## 878 Sketch 3 - New Guide To iOS 8 Mobile App Design (2015)

## 879 How to make Business Cards like a Pro

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## 882 Learn Sketch 3 Mobile App Design From Scratch

## 883 Learn Real Graphic Design

## 884 Doble exposiciÃ³n con Photoshop

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## 921 Drawing and paint hot girl with photoshop

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## 979 create stunning Photoshop compositions in minutes

## 980 Marvelous Logo Design

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## 994 Infographic Design: How To Create Your Own Infographic

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## 996 Modal Theory for Guitar (Guitar Lessons from Lutz Academy)

## 997 Learn Fun Dreamy Piano Techniques #1 - Play White Christmas

## 998 Learn Jazz Piano Today

## 999 Learn To Play The Drums Without A Drum Kit

## 1000 Piano Runs & Fills #3: Jazzy Chromatic Chord Song Endings

## 1001 Instant Harmonica - play the groovy Beatles Yesterday today!

## 1002 How To Play The Djembe: For Beginners

## 1003 Blues Guitar Lessons - Volume 1 - Blues Shuffle Essentials

## 1004 Pure Pentatonic Power: Rock and Blues Guitar Soloing

## 1005 Instant Harmonica - play Dylan's Blowing in the Wind today!

## 1006 Cajon Step-by-Step: Beginner > Intermediate > Advanced

## 1007 Blues Guitar Lessons - Volume 2 - Slow Blues Essentials

## 1008 Learn to Play Trombone: Go From Beginner to Pro in No Time!

## 1009 FingerstyleGuitar by Jacques Stotzem - Basic Level

## 1010 Play Piano 7: Improvise on For All We Know in F Key by Ear

## 1011 Learn To Play The Piano Using Pop, R&B and Gospel Chords

## 1012 Play By Ear #4: Play Song By Ear with 3 Chords Using Any Key

## 1013 Worship Piano: From Beginner to Pro

## 1014 Easy to play Christmas Songs for Guitar

## 1015 Blues School! A Course For Beginners in Blues Piano & Improv

## 1016 Learn Fun Dreamy Piano Techniques # 2 - Play Silver Bells

## 1017 Guitar Insanity Workout - Eatmystrings!

## 1018 Guitar Fretboard Mastery for the Blues Guitarist

## 1019 Have Fun with Beginner Blues Piano

## 1020 Instant Harmonica - play this classic 8 bar blues tune!

## 1021 Guitar Lessons - Learning The Neck - Fretboard Mastery

## 1022 How To Play The Cajon: For Beginners

## 1023 Slide Guitar- Slide Soloing Essentials

## 1024 Learn Piano #8: Use Augmented Chord Sub & Whole Tone Scales

## 1025 Guitar Lessons: The Essential Beginner & Intermediate Course

## 1026 Music Fundamentals: Learn Beatmaking with Pen Tapping

## 1027 Learn to Play Fernando Sor's 'Study in B minor",https://www.udemy.com/study-in-b-minor/,true,115,1403,5,9,Intermediate Level,43 mins,2014-01-27T20:58:16Z\n398746,Piano: The Chord Based System - Learn To Play As The Pros Do"

## 1028 Beginner Guitar Lessons by Paul Gronow

## 1029 150 Rock Guitar Licks You MUST Know

## 1030 Blues Master - Beginner's Techniques Piano Course

## 1031 Instant Harmonica - play Amazing Grace + Ode to Joy now!

## 1032 Piano Improvisation from Day One

## 1033 Learn Piano #7- Learn Chromatic Chords & Chromatic Scale Run

## 1034 How to play in a local Irish music session with confidence

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## 1036 Cracking the Violin Code!

## 1037 Play The Piano By Ear | Master Class, Learn By Doing

## 1038 Fingerpicking Classics - Great songs played fingerstyle!

## 1039 6 Must Know Tricks to Successful Solos

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## 1041 How to Design Your Own Guitar

## 1042 Play Sonny Terry style on Harmonica and dazzle your friends!

## 1043 Blues and Advanced Guitar Lessons

## 1044 #1 Piano Hand Coordination: Play 10th Ballad in Eb Key songs

## 1045 CAGED Pentatonic System for Guitar - Level 3

## 1046 Play Piano 4: Improvise on popular song Yesterday chords

## 1047 Guitar Lessons - String Bending And Vibrato Essentials

## 1048 Piano Runs & Fills #4: C6 Rolling Waves & Waterfall Runs

## 1049 Chugging - it don't mean a thing if it ain't got that swing!

## 1050 Make Your Own Ukulele

## 1051 Beginner Violin 101: Care, Maintenance, and the Right Gear

## 1052 Learn How To Play 25 Classic Hip Hop Songs

## 1053 Learn Beethoven's Fur Elise on Piano

## 1054 Piano With Willie Building Technique with Scales Vol. 1

## 1055 Introduction to Gypsy Jazz Guitar

## 1056 Learn How to Play Blues, Rock, & Boogie Woogie Piano Today

## 1057 The Piano Chord Ladder | Learn to Play Thousands of Songs

## 1058 Get great playing HARMONICA - a fun new leisure time hobby !

## 1059 Fingerstyle Guitar Mastery: 3 Techniques You Need To Know

## 1060 Play Piano 3: Improvise Chords to Enchanted Evening by Ear

## 1061 Walking Bass - Quick Start Guide

## 1062 Blues Bass - Quick Start Guide

## 1063 Instant Harmonica - play Leonard Cohen's Hallelujah now!

## 1064 Playing Piano By Ear: Complete Guide for Aspiring Musicians

## 1065 Discover the fun of Spoon playing, a beginners course

## 1066 Play Piano 6 -Improvise on The Way We Were with Power Chords

## 1067 Learn To Play The Drums

## 1068 ãƒ–ãƒ«ãƒ¼ã‚¹ã‚®ã‚¿ãƒ¼å…¥é–\200

## 1069 Pianoforall - Incredible New Way To Learn Piano & Keyboard

## 1070 The Professional Guitar Masterclass

## 1071 Complete Guitar System - Beginner to Advanced

## 1072 How to play Piano - Go from a Beginner/Intermediate to a Pro

## 1073 LEARN HARMONICA, amaze your friends and have fun - it's easy

## 1074 The Complete Piano & Music Theory Beginners Course

## 1075 Quicklessons Piano Course - Learn to Play Piano by Ear!

## 1076 CAGED Pentatonic System for Guitar - Level 1

## 1077 CAGED Pentatonic System for Guitar - Level 2

## 1078 How To Make Money With A Cover Band

## 1079 Play Piano 8 - Play Over the Rainbow by Ear & Free Improvise

## 1080 Piano For Singer/Songwriters 2: Pop/Rock Rhythm Immersion

## 1081 Play Piano 2: Play 'Love Me Tender By Ear with 2-5 Chords"

## 1082 Learn Piano #10 Tritone Chord Substitution with Jazzy Sounds

## 1083 Piano Runs & Fills #2: Play Rolling Cascading Runs for Intro

## 1084 Piano - Circle of 5ths to Play A Song in 12 Keys in 12 Days

## 1085 Master Class # 11: Play Piano Techniques Learn Piano 1 to10

## 1086 Acoustic Fingerstyle Guitar Course: Beginner to Advanced

## 1087 Play Piano 1 Master Class Intro: Standards 2-5 Power Chords

## 1088 Best Beginner Guitar Lessons by Sam Lyons

## 1089 How to play Contemporary Piano

## 1090 Piano Technique Exercises Vol.1

## 1091 Instant Harmonica - Learning the Basic 12 Bar Blues Bassline

## 1092 How to play 'Electric Guitar",https://www.udemy.com/electric-guitar-beginners-method/,true,50,1105,5,20,Beginner Level,2 hours,2016-12-29T00:24:06Z\n42038,Learn Piano Today: How to Play Piano Course in Quick Lessons"

## 1093 Play Piano by Ear Today! SuperCourse

## 1094 Learn to Read & Write Music to play Piano & more instruments

## 1095 The Complete Piano Course - Master The Piano

## 1096 Learn to play your favorite guitar songs by ear

## 1097 The Professional Bass Masterclass

## 1098 Piano Lessons for the R&B Fan

## 1099 The art of piano improvisation

## 1100 How To Build A Professional Djembe: Create Music Beauty &Biz

## 1101 Advanced Euphonium Studies - Learn to Master the Euphonium!â\200‹

## 1102 Fingerstyle Guitar by Jacques Stotzem - Advanced Level

## 1103 Trumpet Pro Series - You're going to love practicing Trumpet

## 1104 A Guide to Analog Synths: For the modern EDM enthusiast.

## 1105 Accelerate Your Guitar Learning With Metal Techniques

## 1106 Play Ukulele Now

## 1107 Piano Runs & Fills #1: Play Dreamy Whole Tone Scale Runs

## 1108 Play Piano Today - Easy Festive Favorites & Piano Party Hits

## 1109 Instant Harmonica - play The Kesh (pt 1) it's easy and fun!

## 1110 The 80/20 Guitar: Write Music and Play Guitar in 30 Days

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## 1112 Instant Harmonica - play Christmas + Birthday songs now!

## 1113 Blues Master - Advanced Techniques Piano Course

## 1114 Flute Pro Series - You're about to love practicing the flute

## 1115 Trombone Pro Series - Fall in love with the Trombone

## 1116 Learn How To Play 25 Classic Hip Hop Songs Ch.2

## 1117 Fingerpicking for Guitar

## 1118 Piano Unbound. Piano learning method, a course for beginners

## 1119 Advanced Trombone Studies - Learn to Master the Trombone!

## 1120 Euphonium Solos: Learn to Perform Three Fun, Unique Pieces!

## 1121 French Horn Solos: Learn how to Perform Three Fun Pieces!

## 1122 Learn How To Play The Trumpet

## 1123 Escalas PentatÃ³nicas para guitarristas

## 1124 Brass Master Class

## 1125 Aprende a tocar el acordeÃ³n de botones

## 1126 Pedais de efeito para Contrabaixo

## 1127 Mantenimiento y octavaciÃ³n para guitarras elÃ©ctricas

## 1128 Aprende a tocar el violÃ­n desde cero

## 1129 Aprende a tocar el teclado como los expertos

## 1130 Aprende a tocar el saxofÃ³n como siempre has querido

## 1131 Aprende a tocar flauta transversal sin complicaciones

## 1132 Aprende a tocar percusiones: congas, bongÃ³s, maracas y mÃ¡s

## 1133 Aprende a tocar la guitarra acÃºstica como un profesional

## 1134 Guitar Lesson - Five Steps to Learn Barre Chords

## 1135 Easy Piano Basicsâ„¢ - Learn Piano, No Prior Experience Needed

## 1136 Guitar Technique Mastery: The Ultimate Chop Building Workout

## 1137 Inside Drum Technique

## 1138 Create Beautiful Music On The Piano Like a Pro In Minutes

## 1139 Instant Harmonica - play 'Can't Help Falling in Love' now!

## 1140 Arpeggios for Guitar made Easy! Dominate the Fretboard

## 1141 Guitar Lessons - The Modal System - Modes Essentials

## 1142 Learn to Play Percussion: Beginner to Pro made the Easy Way!

## 1143 World Percussion: Complete Lessons for Everyone

## 1144 Learn Lion (Saroo) Soundtrack On The Piano By Ear

## 1145 Play Guitar and Understand Music Quick & Easy in 28 Days!

## 1146 Swing Low - The 101 Authentic Nashville Piano Style Course

## 1147 Get Piano Skills TODAY!!!

## 1148 Piano With Willie Building Technique with Scales Vol. 2

## 1149 Introduction to Guitar 'A Course for Beginners",https://www.udemy.com/introduction-to-guitar/,true,25,163,11,56,Beginner Level,2.5 hours,2014-10-30T15:59:39Z\n650804,Guitar Master Class Learning How to Play Guitar from A to Z"

## 1150 Gibson's Learn & Master Guitar

## 1151 Master the Trombone: Intermediate Instruction Made Simple!

## 1152 Walking Bass Fundamentals

## 1153 Circular Breathing for musicians - practical skills

## 1154 Electric Bass for Busy Beginners Course 1

## 1155 Aprende baterÃ­a con el nuevo mÃ©todo IDT

## 1156 Aprende a tocar el AcordeÃ³n 'de oÃ­do y con tÃ©cnica",https://www.udemy.com/aprende-a-tocar-el-acordeon-de-oido-y-con-tecnica/,true,25,93,21,34,Beginner Level,4 hours,2014-09-16T19:51:45Z\n263432,Aprende los Secretos de la ArmÃ³nica con HARP&SOUL"

## 1157 ExplosÃ£o PentatÃ´nica

## 1158 Piano With A Pro

## 1159 The Fun and Effective Piano Course

## 1160 Advanced Flute Studies - Learn to Master the Flute!â\200‹

## 1161 Alternate Picking Speed & Accuracy

## 1162 Master the Clarinet: Intermediate Instruction Made Simple!

## 1163 Advanced Clarinet Studies - Learn to Master the Clarinet!

## 1164 Aprende a tocar ritmo pop en el piano y teclado

## 1165 Comment jouer du Pianoforte

## 1166 Aprende a tocar blues en el piano y teclado

## 1167 Suonare la Chitarra

## 1168 Aprende todos los secretos de la guitarra flamenca

## 1169 Aprende cÃ³mo tocar el Bajo Sexto

## 1170 Coach Guitar - Apprendre la GUITARE facile avec des COULEURS

## 1171 Learn Piano with Beyer, 15 Minutes Challenge

## 1172 Instant Harmonica - Christmas; play Jingle Bells part 2 now!

## 1173 Piano With Willie Building Technique with Scales Vol. 3

## 1174 Advanced Bassoon Studies - Learn to Master the Bassoon!â\200‹

## 1175 Blues Guitar Lessons: Play Like the Greats - All Levels

## 1176 Instant Harmonica - play Whiskey in the Jar + Molly Malone!

## 1177 Learn To Play Trumpet Fast Using The Passive Trumpet Tutor

## 1178 Advanced Tuba Studies - Become a Master of the Tuba!â\200‹

## 1179 'Greensleeves' Creative Piano Lessons Course

## 1180 Instant harmonica - play Auld Lang Syne the neet (tonight)!

## 1181 The Ultimate Method for Learning Modern Piano & Keyboards

## 1182 Master the Bassoon - Intermediate Instruction Made Simple!

## 1183 Oboe Pro Series - You're going to love practicing the Oboe

## 1184 Learn 4 Vital things that will make your DRUM PLAYING EASIER

## 1185 Aprende a tocar los mejores solos en la guitarra elÃ©ctrica

## 1186 Aprende a tocar la guitarra

## 1187 Aprende a tocar el piano desde cero

## 1188 Aprende a tocar el clarinete.

## 1189 Ahora aprende a tocar jazz en el piano

## 1190 Aprende a tocar el contrabajo sin complicaciones

## 1191 Aprende a tocar la guitarra elÃ©ctrica

## 1192 Aprende a improvisar en la guitarra elÃ©ctrica

## 1193 improvisaciÃ³n de Guitarra

## 1194 Piano With Willie Building Technique with Scales Vol. 4

## 1195 Keyboard Basics

## 1196 Bassoon Pro Series - You're going to love practicing Bassoon

## 1197 Coach Guitar - Amazing New Way To Learn Guitar With Colors

## 1198 The 7 Day Guitar Method

## 1199 Instant Harmonica - play Star Wars + the Lion Sleeps now!

## 1200 Instant harmonica - play Adele's wonderful 'Hello' today!

## 1201 Slap Bass For Beginners

## 1202 Horn Pro Series - You're going to love playing French Horn

## 1203 Instant Harmonica - play the Irish tune Whiskey in the Jar!

## 1204 Saxophone Pro Series - You're going to love practicing Sax

## 1205 Clarinet Pro Series - Fall in love with the Clarinet

## 1206 Improvise PucciniÂ´s 'E Lucevan le Stelle on Piano"

## 1207 Building Up To Barre Chords

## 1208 Blues Guitar Lessons - Volume 3 - Minor Blues Essentials

## 1209 Back 2 The Basics

## 1210 Practical Guitar Theory: Level 1

## 1211 Instant harmonica - enjoy playing Silent Night tonight!

## 1212 HARP&SOUL | Learn the Secrets of the Harmonica

## 1213 Instant Harmonica - play the cool tune Dirty Old Town now!

## 1214 Euphonium Pro Series - Fall in love with the Euphonium

## 1215 Pure Rock Guitar : Play Like the Gods of Rock!

## 1216 Classical Guitar Technique: 80/20

## 1217 Sevillanas con CastaÃ±uelas - Baile y toque al mismo tiempo

## 1218 Aprende a Tocar Teclado - Piano

## 1219 CastaÃ±uelas por Sevillanas - Curso del toque de castaÃ±uelas

## 1220 Aprende a tocar MÃºsica Cristiana en el piano y teclado

## 1221 Instant Harmonica - play Over the Rainbow + Skye Boat now!

## 1222 Flute Solos: Learn how to Perform Three Fun, Unique Pieces

## 1223 Instant Harmonica - play the Irish anthem Danny Boy today!

## 1224 Blues Master - Professional Techniques Piano Course

## 1225 Instant Harmonica - play Dylan's Like a Rolling Stone now!

## 1226 Instant Harmonica - play 'I just called to say I love you'

## 1227 Jazz piano improvisation: The girl form Ipanema. Bossa nova

## 1228 Quick Piano Lessons - Tutorials for Drake's Greatest Hits

## 1229 Guitar - Rock - Beginner with Marc Seal

## 1230 Oboe Solos: Learn to Perform Three Fun, Unique Pieces!

## 1231 Bluegrass Guitar Essentials: Webisodes 11 & 12

## 1232 Advanced Horn Studies - Learn to Master the French Horn!â\200‹

## 1233 Learn Loreena McKennitt Songs-Quicklessons Piano Course

## 1234 Major Scales and Modes for Chromatic Harmonica

## 1235 Coaching Bundle: Guitar for Music Educators: Part 1

## 1236 Coaching Bundle: Guitar for Music Educators: Part 2

## 1237 Coaching Course: Rhythm Instruction for Music Educators P1

## 1238 Learn Pirates of the Caribbean by Ear on the Piano

## 1239 Coaching Course: Rhythm Instruction for Music Educators P2

## 1240 Tune that Sour Note on Your Piano

## 1241 Learn Vikings Soundtracks on the Piano by Ear

## 1242 Instant Harmonica - play 12 bar blues Big Walter style now!

## 1243 Funk Rhythm Guitar Techniques

## 1244 Learn to play the Bouzouki - Greek Bouzouki Lessons

## 1245 Guitar Looper Basic Training

## 1246 Curso de piano 101 - Tocando partituras y acordes -

## 1247 Sintetizadores e SÃ­ntese Subtrativa

## 1248 Curso de ejercicios tÃ©cnicos al piano Vol.2

## 1249 Curso de ejercicios tÃ©cnicos al piano Vol.1

## 1250 Aprende escalas y arpegios Vol.2 : Modo menor

## 1251 Instant Harmonica - play Blowing in the Wind + Popeye theme!

## 1252 Learn to play in the Key of G on any Bluegrass Instrument

## 1253 Jazz Guitar Reharmonization for Autumn Leaves

## 1254 Mike G's Beginner Drum Course: Part 2

## 1255 Instant Harmonica - play Summertime + Drunken Sailor now!

## 1256 Add Slide To Your Guitar Playing

## 1257 Classical Guitar Finger-Picking: Right Hand Arpeggios

## 1258 Instant Harmonica - play Yesterday + Scarborough Fair today!

## 1259 Learn to Play the Tuba: Beginner to Pro in Under Five Hours!

## 1260 Bones of the Blues - learn 4 cool tunes to expert level now!

## 1261 Pure Modal Magic: The Complete Guitar Modes Solution

## 1262 Aprende diferentes ritmos con la guitarra rÃ­tmica

## 1263 Aprender a tocar la baterÃ­a sin salir de casa

## 1264 Aprende a tocar el bajo elÃ©ctrico

## 1265 Aprende todos los secretos de la salsa para piano

## 1266 Aprende a tocar ritmos latinos en el teclado

## 1267 Aprende a tocar la trompeta

## 1268 Aprende a tocar Jazz y Ritmos Latinos en la guitarra

## 1269 Aprende a tocar la flauta dulce de forma sencilla y gradual

## 1270 Aprende a tocar jazz, salsa y blues en el piano

## 1271 Learn Web Designing & HTML5/CSS3 Essentials in 4-Hours

## 1272 Learning Dynamic Website Design - PHP MySQL and JavaScript

## 1273 ChatBots: Messenger ChatBot with API.AI and Node.JS

## 1274 Angular and Firebase - Build a Web App with Typescript

## 1275 Web Development Masterclass - Complete Certificate Course

## 1276 The Complete Bootstrap Masterclass Course - Build 4 Projects

## 1277 Scaling Docker on AWS

## 1278 HTML Tutorial: HTML & CSS for Beginners

## 1279 Learn Complete Web Development From Scratch

## 1280 Web Programming with Python

## 1281 PHP Login and Registration System - Email Confirm Activation

## 1282 PSD to Responsive HTML5: Beginner to Advanced

## 1283 Accelerated JavaScript Training

## 1284 React JS and Redux - Mastering Web Apps

## 1285 The Complete WordPress Website Business Course

## 1286 The Complete HTML and CSS Course For Beginners

## 1287 Learn Bootstrap Development By Building 10 Projects

## 1288 Dissecting Ruby on Rails 5 - Become a Professional Developer

## 1289 The Complete Wordpress Course - Build Your Own Website Today

## 1290 JQuery Essentials core training for Dynamic Interactive web

## 1291 Practical CSS Website Development: Crash Course

## 1292 Successful website creation - everything you need to know

## 1293 Learn Python and Django: Payment Processing

## 1294 React.js: Building Production Ready Apps, Start to Finish

## 1295 Learn Object Oriented Programming PHP fundamentals bootcamp

## 1296 Javascript Intermediate level 2 - Mastering Functions

## 1297 Complete AJAX Using Bootstrap, PHP From Basic To Advanced.

## 1298 Complete Wordpress Theme Development Course

## 1299 How to Optimise Your WordPress Website's Speed & Security to Improve SEO & User Experience

## 1300 Build A Web App With Spring Framework and Angular 2

## 1301 Javascript Intermediate level 3 - JSON

## 1302 JavaScript DOM Dynamic Web interactive content Boot Camp

## 1303 Master JavaScript Programming, 3 Projects Included !!

## 1304 Complete Codeigniter: From Beginner to Advanced

## 1305 HTML 5: How I made websites in HTML5

## 1306 Build Responsive Website Using HTML5, CSS3, JS And Bootstrap

## 1307 Complete WordPress Theme Developer Course With Bootstrap

## 1308 The Complete Ethical Hacking Course 2.0: Python & Kali Linux

## 1309 Vue JS - Mastering Web Apps

## 1310 Complete E-Commerce Course - Java,Spring,Hibernate and MySQL

## 1311 Learn SVG Animation - With HTML, CSS & Javascript

## 1312 Build a Responsive Website with HTML5, CSS3 and Bootstrap 4

## 1313 Learn Web Designing & HTML5/CSS3 Essentials in 4-Hours

## 1314 CSS Development (with CSS3!)

## 1315 The Docker for DevOps course: From development to production

## 1316 React VR - Creating Virtual Reality Apps

## 1317 RxJs & Reactive Programming Angular Masterclass - Angular 4

## 1318 Coding for Entrepreneurs: Learn Python, Django, and More.

## 1319 Learn Nodejs by building 12 projects

## 1320 How to Make an Online Portfolio Website from Scratch

## 1321 jQuery in Action: Build 8 jQuery Projects

## 1322 Master WordPress Plugins: Shortcodes Ultimate - The Basics

## 1323 ASP.NET C# - Enterprise Web Systems From Novice to Expert

## 1324 Complete Website & CMS in PHP & MySQL From Scratch!

## 1325 Getting Started with Craft CMS

## 1326 JavaScript For Absolute Beginners - Level One

## 1327 Effective Personal Website Building and Hosting

## 1328 Web Design for Web Developers: Build Beautiful Websites!

## 1329 Learn Rails: Quickly Code, Style and Launch 4 Web Apps

## 1330 Getting Started with NodeJS for Beginners

## 1331 Byte-Sized-Chunks: Cascading Style Sheets (CSS) with HTML

## 1332 Learn Building Your Own Website Without Coding

## 1333 The Complete HTML5 and CSS3 Course

## 1334 Code a 'Coming Soon' Landing Page in Bootstrap 4

## 1335 Master ExpressJS to Build Web Apps with NodeJS&JavaScript

## 1336 HTML5 CSS3 JQUERY Single Page Website Project from Scratch

## 1337 Amazon s3 Mastery - THE How-To' Guides For Amazon S3

## 1338 EMMET Faster HTML & CSS workflow - Best Tool For Developers

## 1339 How to set up a Web Server From Scratch to One Fully Managed

## 1340 The Complete PHP MySQL Professional Course with 5 Projects

## 1341 Angular Masterclass

## 1342 Become a Professional Web Developer | Version 3.0

## 1343 Build Incredible Chatbots

## 1344 Try Django 1.10 | Create a URL Shortening Service

## 1345 Projects in CSS

## 1346 Ruby on Rails: Training and Skills to Build Web Applications

## 1347 Learn and Understand React

## 1348 Learn Javascript & JQuery From Scratch

## 1349 The Ultimate Web Developer How To Guide

## 1350 Build A Complete CRUD Application With PHP, MYSQL & JQUERY

## 1351 jQuery Crash Course: Learn the Essentials of jQuery Fast

## 1352 The Complete PHP CodeIgniter Course: Beginner To Advanced

## 1353 JavaScript For Beginners : Learn JavaScript From Scratch

## 1354 Mastering 'Native CSS Shapes To Build Modern Web Pages"

## 1355 WordPress Development For Beginners

## 1356 WordPress local server setup and site migration online

## 1357 PHP Fundamentals - Start Earning The Top Dollars You Deserve

## 1358 Javascript Intermediate level 1 - Mastering the DOM

## 1359 Sublime Text for Rapid Web Development

## 1360 Servlets and JSPs Tutorial: Learn Web Applications With Java

## 1361 Projects in PHP and MySQL

## 1362 PHP OOP: Object Oriented Programming for beginners + Project

## 1363 React Redux React-Router: From Beginner to Paid Professional

## 1364 Angular 2 Complete E-Commerce App Course - Java,Spring,MySQL

## 1365 The Complete jQuery Course: From Beginner To Advanced!

## 1366 Projects in AngularJS - Learn by building 10 Projects

## 1367 The Ultimate Vue JS 2 Developers Course

## 1368 React JS - Build real world JS apps & deploy on cloud

## 1369 Angular 4 Front To Back

## 1370 HTML5, CSS3 And JavaScript Fundamentals 2016

## 1371 Learn E-Commerce Website in PHP & MySQL From Scratch!

## 1372 JavaScript Game Development: Create Your Own Breakout Game

## 1373 HTML and HTML5 For Beginners 2016

## 1374 A Very Complete Introduction To Laravel

## 1375 Learn to code, Become a Web Developer and Master JavaScript!

## 1376 jQuery Essentials: Learn the Fundamental of jQuery

## 1377 Expert Guide : Mastering Functions in JavaScript !

## 1378 jQuery Fundamentals Powerful Bootcamp for beginners

## 1379 The Complete HTML & CSS Course - From Novice To Professional

## 1380 Bootstrap unleash the power faster & easier web development

## 1381 AJAX Development

## 1382 Interaction Design Specialist For Web Developers

## 1383 PHP Security

## 1384 The Complete HTML5 & CSS3 Course Build Professional Websites

## 1385 HTML Workshop

## 1386 Creating Animations using HTML5 Canvas

## 1387 Bootstrap 4: Exploring New Features

## 1388 Bootstrap 3 -> Profitable WordPress Theme Development!

## 1389 Learn How to Manage & Customize Web Sites By Drupal CMS

## 1390 Up and Running with jQuery

## 1391 Learn How To Build A Professional Web Site By Using Joomla

## 1392 Node Package Manager Course: Build and Publish NPM Modules

## 1393 PHP with Laravel for beginners - Become a Master in Laravel

## 1394 JavaScript 2017: Become Top Rated Web Developer

## 1395 The Complete Web Developer Bootcamp - Beginner to Expert

## 1396 Full-Stack Web Apps with Meteor and React

## 1397 The Complete Sass & SCSS Course: From Beginner to Advanced

## 1398 Become a Certified Web Developer

## 1399 Become a Web Developer from Scratch

## 1400 Ultimate Angular 4 (previously Angular 2) with Bootstrap 4

## 1401 React JS - Mastering Redux

## 1402 Professional Ruby on Rails Developer with Rails 5

## 1403 Ruby on Rails 5 - BDD, RSpec and Capybara

## 1404 Complete ASP NET MVC Web Development - Newbie to Ninja!

## 1405 The Complete DevOps Engineer Course 2.0 - Java & Kubernetes

## 1406 All about NodeJS

## 1407 The Complete jQuery Course - From Beginner to Professional!

## 1408 Build a complete Fiverr clone with Node + Algolia + Paypal

## 1409 The Ultimate Web Development Course

## 1410 React From The Ground Up

## 1411 Javascript for Beginners Learn by Doing Practical Exercises

## 1412 8 Beautiful Ruby on Rails Apps in 30 Days & TDD - Immersive

## 1413 Mastering ASP.NET MVC 5 From Scratch Using C#

## 1414 Start Web Development with GIS Map in JavaScript

## 1415 Learn to Build Websites using Twitter Bootstrap

## 1416 Angular 2 Crash Course with TypeScript

## 1417 Boost your website speed without any coding!

## 1418 ASP.NET Web API 2 Hands-On

## 1419 Angular 2 From The Ground Up

## 1420 Complete Web Development Course + Building 5 Websites!

## 1421 Sass: From Beginner to Advanced

## 1422 Build Flat Responsive Website from Scratch - Complete Course

## 1423 Unit Testing AngularJS: Build Bugfree Apps That Always Work!

## 1424 Thoughtful Web Development Course: HTML, Vue.js, PHP, MySQL

## 1425 Kids Coding - Beginners CSS

## 1426 PHP & MySQL - Learn The Easy Way. Master PHP & MySQL Quickly

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## 1439 JavaScript Tutorial

## 1440 Learn By Example: Angular JS

## 1441 The Complete front end web developer Bootcamp - 14 projects

## 1442 WordPress LMS: E-Learning Website Made Easy

## 1443 In Depth Web Development Made Easy

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## 1446 JavaScript Complete for beginners with real world Apps

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## 1460 Projects in MongoDB - Learn MongoDB Building Projects

## 1461 Learning JavaScript Programming Tutorial. A Definitive Guide

## 1462 Build Modern Responsive Website With HTML5, CSS3 & Bootstrap

## 1463 The Complete JavaScript Course For Web Development Beginners

## 1464 RESTful API with Laravel 5.4: Definitive Guide

## 1465 Master Regular Expressions from scratch - All languages

## 1466 JavaScript Step by Step how to apply it to your web pages

## 1467 Learn Web Scraping with Node.js

## 1468 Learn HTML5 Programming From Scratch

## 1469 Master ECMAScript 2015 (ES6)

## 1470 Create Fast RESTful APIs with Lumen and Homestead by Laravel

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## 1472 Build a Responsive Website with a Modern Flat Design

## 1473 Become A Full Stack Web Developer in 14 Days

## 1474 JavaScript Rockstar How to create Incredible Useful code

## 1475 PHP Graphic Techniques: CAPTCHA/ Create a verification code

## 1476 Learn how to convert PSD to HTML and CSS responsive

## 1477 PHP User Login Registration Script With All Features

## 1478 AJAX : Let's build a COOL project

## 1479 Ruby on Rails Tutorial: Learn 6 Ruby on Rails SEO Techniques

## 1480 XML DOM :basics for beginners

## 1481 Learn HTML Basics From Scratch

## 1482 Byte-Sized-Chunks: Dynamic Prototypes in Javascript

## 1483 Responsive Html5 Theme Development

## 1484 Whatâ\200\231s New in Bootstrap 4

## 1485 Build A Great Wordpress Website For Your Business in 2 Hours

## 1486 Wordpress on AWS: The Easy way to AWS for Free Fast hosting

## 1487 Create a PHP Contact Form in Bootstrap

## 1488 Introduction To Data Analytics Using Microsoft Power BI

## 1489 The Complete Web Developer Masterclass: Beginner To Advanced

## 1490 Learn How to Create Your Own Social Network

## 1491 Learn By Example: The Foundations of HTML, CSS & Javascript

## 1492 Web Security: Common Vulnerabilities And Their Mitigation

## 1493 Make a professional website - 30 Day Guarantee. Discounted!

## 1494 Symfony 3: Build a PHP Application with Symfony

## 1495 Learn ASP.Net Web API 2 for Absolute Beginner

## 1496 How to Make a Website Without Coding- WordPress & Web Skills

## 1497 How To Build A Website From Scratch + Blogging Blueprint

## 1498 Learn To Create Different Website Layouts & Media Queries

## 1499 Build Sign Up and Login Forms With Bootstrap Modal

## 1500 Build a Real Time web app in node.js , Angular.js, mongoDB

## 1501 Superb jQuery Course - Become Certified jQuery Developer

## 1502 Build Your Own Calculator App with Javascript, HTML5 & CSS

## 1503 Develop Competitive Plugins for WordPress and WooCommerce

## 1504 Get Results - Core Principles of Web Development Tricks Tips

## 1505 JSON Faster Sleeker & Easier Discover the benefits learn it

## 1506 Ultimate Css & JQuery Form Designing From Beginner to Expert

## 1507 PHP: Complete Registration and Login with Email Verification

## 1508 JavaScript from Beginner to Expert

## 1509 Learn Ruby on Rails: Stripe Payment Processing

## 1510 WordPress For Beginners | No Coding Required

## 1511 HTML CSS JavaScript: Most popular ways to code HTML CSS JS

## 1512 Complete PHP and MySql Course: From Beginner to Professional

## 1513 CSS3 Gradients for Web Designers

## 1514 AJAX :basics for beginners

## 1515 JavaScript from Beginner to Advanced

## 1516 Responsive PHP Registration Form: From Scratch

## 1517 Learn Bootstrap And Make Responsive Websites

## 1518 Bootstrap Basics: Program Responsive Websites

## 1519 Projects with JSON and APIs

## 1520 Create Complete Sign up System using PHP, jQuery and Ajax

## 1521 Adobe Flash for Beginners - Build Flash Website From Scratch

## 1522 Learn Complete WordPress for Building a Professional Sites

## 1523 Devtools 2017: Beginner to Expert w/ Chrome Developer Tools

## 1524 Bootstrap Essential Training - Create Your Very Own Website

## 1525 Angular 2 Jump Start With Typescript

## 1526 Learn Plugin Development in WordPress By Building Projects

## 1527 Build Your Startup with No Coding (Design, Develop & Ship)

## 1528 The Web Developers Guide: Learn HTML & CSS Fundamentals

## 1529 Learn PHP Programming for Absolute Beginners - Lite

## 1530 Learn Drupal 8 - With a Live Project

## 1531 Supreme NodeJS Course - For Beginners

## 1532 Become a Bootstrap Expert: Build 20 Layouts!

## 1533 PHP : Learn to upload files to Amazon S3 and use CloudFront

## 1534 PHP MySQL: Learn PHP MySQL with Project

## 1535 Projects in Django and Python

## 1536 Create, Update and Manage Your Own Website Using Drupal 7

## 1537 Bootstrap :basics for beginners

## 1538 PHP :basics for beginners

## 1539 Advanced Prezi: Make Amazing Presentations

## 1540 The WpFASTER WordPress Speed Optimization Master Course

## 1541 How to Build Your Own Website with WordPress: A Step-by-Step Guide

## 1542 Build Apps with ReactJS: The Complete Course

## 1543 Lerning PHP by building website

## 1544 Learn PHP Object Oriented Features with Simple Examples

## 1545 Crash Course - Learn to Create a PHP MVC Framework

## 1546 JSON :basics for beginners

## 1547 CSSCasts; CSS libraries Plugins Tips & Tricks for Developers

## 1548 Build Ajax Web Apps with Laravel 5.2, Bootstrap and jQuery

## 1549 Javascript for Beginners

## 1550 Regular Expressions for Beginners - Universal

## 1551 WordPress Plugin Development -> Deep dive discovery!

## 1552 Create a business website with WordPress

## 1553 Understand PHP Arrays and HTTP Request in a Better Way

## 1554 The Complete HMTL5 Course - Go From Beginner To Advanced!

## 1555 How to Create a Wordpress Website from Scratch - No Coding

## 1556 Learn PHP CodeIgniter Framework with AJAX and Bootstrap

## 1557 The Complete Guide to JavaScript Development

## 1558 Build Professional WordPress Website

## 1559 Ultimate CSS3 Course - From Beginners To Professional

## 1560 Code & Grow Rich: Earn More As An Entrepreneur Or Developer

## 1561 JavaScript - Tricks and Workarounds

## 1562 PHP with PDO - ULTIMATE Crash Course

## 1563 Bootstrap 3 Introduction : Create RESPONSIVE Websites Fast

## 1564 Professional WordPress Theme Development For 2017

## 1565 Learn Laravel PHP Framework Building Multi User SEO Blog APP

## 1566 Write PHP Like a Pro: Build a PHP MVC Framework From Scratch

## 1567 Laravel, the complete guide with real world projects

## 1568 Learn Html5 & CSS3 from scratch

## 1569 Responsive Web Design: Made Easy

## 1570 Codeigniter: How to use Codeigniter that drives knowledge

## 1571 jQuery for Beginners - Create Website Animations Easily

## 1572 How to Build Chat Bots: From Beginner to Intermediate

## 1573 Web Development with BootStrap - 16 Instant Themes Included!

## 1574 Install a Wordpress Theme the Correct Way & Charge Others

## 1575 The CSS and CSS3 Crash Course

## 1576 Learn to Build Web Apps using D3JS

## 1577 How to create awesome website and e-commerce in 1 hour

## 1578 Learning Drupal 8

## 1579 Rock Solid Wordpress Security - Secure Web Development

## 1580 PHP Laravel 5:Creating a CRUD application

## 1581 XQUERY :basics for beginners

## 1582 PHP Development with the Laravel Framework

## 1583 WordPress Development - Themes and Plugins Complete Guide

## 1584 The Ultimate Guide to the Best WordPress Plugins Part 1

## 1585 XSLT :basics for beginners

## 1586 The Complete Wordpress Plugin Development Course - 8 Plugins

## 1587 You can create Incredible Websites with HTML CSS learn how

## 1588 JavaScript Tricks how to create code projects from scratch

## 1589 The Sass Course! Learn Sass for Real-World Websites

## 1590 Master Angular 4 by Example - Build 7 Awesome Apps!

## 1591 Create A Custom Responsive WordPress Website For A Client

## 1592 Mastering HTML5 Programming - The Easier Way

## 1593 Spring Framework 4 (Java Enterprise JEE) with AngularJS

## 1594 Build A Weather App With Ajax Using Open Weather Map API

## 1595 Learn and Earn with HTML & CSS

## 1596 Modern Web Development with Laravel 5.2 (PHP Framework)

## 1597 Complete AJAX Course: Learn AJAX Techniques Using Bootstrap

## 1598 Bootstrap 4 Theme Development Masterclass

## 1599 Wordpress Theme Development for Beginners

## 1600 Learn how to use Javascript Components with PHP and Symfony

## 1601 So you think you know JavaScript?

## 1602 Learn Node.js by building Udemy: Stripe + MailChimp + Wistia

## 1603 Learn jQuery: An In-depth Course For Beginners

## 1604 JQuery Create Overlay Popups from scratch using Jquery

## 1605 Vue JS 2: From Beginner to Professional

## 1606 Ultimate AngularJS: Build a Real-World App from Scratch

## 1607 Wordpress Site Migration

## 1608 The All-In-One Web Development Course

## 1609 AngularJS for the Real World - Learn by creating a WebApp

## 1610 Wordpress Tutorial

## 1611 Create a REAL Social Network like Facebook in PHP + MySQL

## 1612 ASP.NET MVC 5 Project - Facebook Clone

## 1613 jQuery for Beginners

## 1614 Build A Web App with VueJS, Spring Framework and MongoDB

## 1615 Zend Framework 2: Learn the PHP framework ZF2 from scratch

## 1616 X theme for WordPress: Responsive web design without code!

## 1617 How to Make a Wordpress Website 2017

## 1618 Introduction to Laravel 4

## 1619 Learn to Freelance with People Per hour (URDU)

## 1620 Learn Wordpress 4 from Scratch : Create Awesome Websites

## 1621 Amazon Alexa Development: From Beginner to Intermediate

## 1622 The Build a SAAS App with Flask Course

## 1623 Building An E-Commerce Store Using Java Spring Framework

## 1624 Typescript Masterclass & FREE E-Book

## 1625 PHP MVC Framework CodeIgniter Tutorial for Beginners Project

## 1626 Object Oriented Programming (OOP) in PHP - Build An OOP Site

## 1627 Web Development Essential Skills - Complete HTML and CSS

## 1628 Byte-Sized-Chunks: Closures in Javascript

## 1629 Laravel Account Activation Project

## 1630 WordPress: Create an Amazing Website With Ease

## 1631 Mastering the Google Chrome Developer Tools

## 1632 Kali Linux Web App Testing

## 1633 Learn Ruby Programming The Easy Way - Lite

## 1634 Web Scraping with Python, Ruby & import. io

## 1635 Sending email with PHP: from Basic to Advanced

## 1636 WordPress 2016 for Beginners : Build awesome websites!

## 1637 Learn to make websites with Google's Material Design Lite

## 1638 Joomla 3 : Develop a Professional Website in 3 Simple Steps!

## 1639 Complete Python Web Course: Build 8 Python Web Apps

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## 1641 Ethereum Developer: Build A Decentralised Blockchain App

## 1642 The Complete Web Development Course - Build 15 Projects

## 1643 The complete JavaScript developer: MEAN stack zero-to-hero

## 1644 Running a Web Development Business: The Complete Guide

## 1645 Projects In JavaScript & JQuery

## 1646 Learn To Build Beautiful HTML5 And CSS3 Websites In 1 Month

## 1647 Creating an MP3 Player with HTML5

## 1648 Creating FaceBook Design Using Bootstrap - Handson Project

## 1649 BDD with Ruby on Rails using RSpec 3 and Capybara

## 1650 Learn By Example: jQuery

## 1651 JavaScript HTML CSS Project make a Quiz Tutorial

## 1652 jQuery UI In Depth

## 1653 Codeless Website Development with Adobe Muse

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## 1657 Critical Web Dev Skills & Tools for the Non-Tech Hustler

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## 1660 The Complete NodeJS Course: Build a Full Business Rating App

## 1661 Backbone Tutorial: Learn Backbonejs from Scratch

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## 1665 Projects in ExpressJS - Learn ExpressJs building 10 projects

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## 1667 Bootstrap 4.0 New Features: Build Responsive Website

## 1668 ASP.NET MVC 5 Project - CMS and Shopping Cart with Paypal

## 1669 HTML5 APIs For JavaScript - A Course For Web Developers

## 1670 Comprehensive JavaScript Programming

## 1671 Try Django 1.9 | Build a Blog and Learn Python's #1 Library

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## 1676 PHP for Beginners -Become a PHP Master - Project Included

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## 1678 The Complete Ruby on Rails Developer Course

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## 1685 The Complete Developers Guide to MongoDB

## 1686 Vue JS 2 - The Complete Guide (incl. Vue Router & Vuex)

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## 1688 Angular (Angular 2 or 4) & NodeJS - The MEAN Stack Guide

## 1689 Angular 2 with TypeScript for Beginners: The Pragmatic Guide

## 1690 Meteor and React for Realtime Apps

## 1691 The Web Developer Bootcamp

## 1692 AngularJS JumpStart with Dan Wahlin

## 1693 The Complete Web Developer Course 2.0

## 1694 Ultimate Web Designer & Developer Course: Build 23 Projects!

## 1695 REST WCF Service in ASP.NET

## 1696 Projects in Node.js - Learn by Example

## 1697 Learn Object Oriented PHP By Building a Complete Website

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## 1699 Learn Spring Framework Practically - Hands On Recipies

## 1700 One-stop Ruby on Rails: Build Web Applications from Scratch

## 1701 The Most Comprehensive Web Development Course

## 1702 Learn and Understand AngularJS

## 1703 JavaScript: Understanding the Weird Parts

## 1704 Webpack 2: The Complete Developer's Guide

## 1705 Build Responsive Real World Websites with HTML5 and CSS3

## 1706 Learn and Understand NodeJS

## 1707 Understanding TypeScript

## 1708 Modern React with Redux

## 1709 The Complete ASP.NET MVC 5 Course

## 1710 Create a Simple Photo Gallery with Dropzonejs, Slick and PHP

## 1711 WordPress in under an hour - Create/manage your own website!

## 1712 Bootstrap Tutorial - Essentials From Basic to Advanced

## 1713 Create an Engaging Website with Twitter Bootstrap 2.x

## 1714 HTML5 And CSS3 - Build Modern Responsive Websites

## 1715 PSD to HTML5/CSS3 using Twitter Bootstrap 3!

## 1716 Web Development: Make A Website That Will Sell For Thousands

## 1717 PHP Zend Framework 2:Creating a CRUD Application

## 1718 JavaScript Fundamentals

## 1719 Building a Website With Jekyll

## 1720 Wordpress Development : Create a Custom Wordpress Website

## 1721 RESTful Services with ASP.NET Web API

## 1722 Web Hosting Fundamentals

## 1723 Administering Microsoft SQL Server 2012 Databases - 70-462

## 1724 PHP CodeIgniter:CRUD concepts in MVC

## 1725 PHP: Complete Login and Registration System with PHP & MYSQL

## 1726 jQuery for Absolute Beginners - Lite

## 1727 HTML Complete Course - Beginner to Expert

## 1728 Cross-Platform Development with ASP.NET Core 1.0 MVC

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## 1730 JavaScript for beginners - A Complete Guide

## 1731 WordPress Development Crash Course: From Zero To Hero

## 1732 Learn to Build Web Apps using Laravel Framework

## 1733 Flexbox: The complete guide

## 1734 AngularJs :basics for beginners

## 1735 Learn SASS and improve your CSS

## 1736 HTML and CSS for Absolute Beginners

## 1737 JavaScript, jQuery and Ajax

## 1738 Laravel Blog Development Starter

## 1739 React: Learn ReactJS Fundamentals for Front-End Developers

## 1740 The Complete HTML5 and CSS3 Course - with 8 Websites Design

## 1741 HTML Introduction Course: Learn HTML in 2 hours!!!

## 1742 Create WordPress Plugins

## 1743 Build your own Beautiful Blog in WordPress + SEO

## 1744 AngularJS Authentication: Secure Your App with Auth0

## 1745 Learn Bootstrap 4 by Example

## 1746 How To Build And Make A Wordpress Website From Scratch 2017

## 1747 HTML and CSS for Beginners - Build a Website & Launch ONLINE

## 1748 Core: A Web App Reference Guide for Django, Python, and More

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## 1751 Learn Bootstrap3 With Multi Purposes Single Page Layout

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## 1753 Learn to make an HTML 5 website with a video background

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## 1755 Build a Complete Registration and Login System using PHP MVC

## 1756 React for visual learners

## 1757 Learn to Create Advance Responsive Websites With Bootstrap

## 1758 Master the Art of Web Design with HTML & CSS

## 1759 Sell Courses On Your Own Website - No Coding Required!

## 1760 Implementing a Data Warehouse with SQL Server 2012

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## 1763 Create a classified website in 2 hours - guaranteed

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## 1765 Complete Bootstrap 4 course - build 3 projects

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## 1767 All You Need To Know About AngularJS - Training On AngularJS

## 1768 AngularJS For Beginners

## 1769 Set up a localhost Web Server for Faster Website Development

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## 1771 Build a file hosting/sharing site in less than 2 hours

## 1772 Create full featured Landing Page in Ruby on Rails in 3 hour

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## 1774 Create a Professional Website Without Programming/Coding

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## 1776 Master EmberJS : Learn Ember JS From Scratch

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## 1791 Complete Login and Registration System in PHP and MYSQL

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## 1793 Advanced HTML5 Tutorial for Web Developers

## 1794 GRUNT js: Automate web development tasks and save your time

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## 1797 SharePoint 2013 Development using C# - Part I

## 1798 Building Responsive Data Visualizations with D3 JS

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## 1802 Create a Website Similar to Facebook from Scratch!

## 1803 Comprehensive TypeScript

## 1804 HTML 5 and CSS 3 - tricks and workarounds

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## 1806 Building a Social Network in PHP & MySQL From Scratch

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## 1808 Create a Powerful Website with the Cool Bootstrap Framework

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## 1811 Learn to make a colorful one page website

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## 1814 WordPress for Beginners 2017 + Google AdSense Implementation

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## 1816 Become a Kick-Ass Web Developer: From Newbie to Pro

## 1817 PHP - Send and Receive Mobile Text Messages (SMS)

## 1818 Complete PHP Course with OOP Start to Finish!

## 1819 WordPress Security - The Ultimate Security Guide

## 1820 How to Make a Single Page Website for Freelancers & Agencies

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## 1832 Become PHP Facebook Developer: Password-Less Authentication

## 1833 Ultimate guide to Social Media Web development integration

## 1834 A Complete Laravel basics from beginner to expert

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## 1845 Social Network Web Development

## 1846 For Free - Deploy Quickly Spring Boot on Heroku With MySQL

## 1847 Building Web Applications with Spring MVC

## 1848 HTML5, CSS3 & Bootstrap - How to Create a Responsive Website

## 1849 HTML & CSS - Learn to build sleek websites

## 1850 Master ASP . NET 4 from scratch

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## 1852 Your Own Site in 45 Min: The Complete Wordpress Course

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## 1854 Build Responsive Websites in an Hour using Portalfin

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## 1856 Learning Axure RP

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## 1858 How to Create a Social Network For a Niche-Related Community

## 1859 Webpack 1 & 2 - The Complete Guide

## 1860 Wordpress for beginners :Build Websites Fast without Coding

## 1861 Build a Chatbot integrated Website using Bootstrap 4

## 1862 Build Advanced Responsive Websites with Foundation 6 & SASS

## 1863 Learn Essential Javascript Fundamentals - Lite

## 1864 Bootstrap Bootcamp - Responsive web development- 8 projects

## 1865 Learning Bootstrap 3 - Tutorial From Infinite Skills

## 1866 Practical Web Development: Make Websites Quickly And Easily

## 1867 Learn animation using CSS3, Javascript and HTML5

## 1868 The Complete JavaScript Bootcamp

## 1869 Complete JavaScript Course for Beginners with Easy Examples

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## 1873 The Essential Web Developer Course - Build 12 Websites

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## 1876 Learn Web Animation the Easy Way: An Intro to SVG and GSAP

## 1877 Build Your Own Membership Website With Joomla

## 1878 Master Typescript : Learn Typescript from scratch

## 1879 XSD :basics for beginners

## 1880 Creating User Authentication System in CodeIgniter

## 1881 Building a Portfolio in 90 minutes ( HTML, CSS, Js )

## 1882 Automate Web Development With Gulp JS

## 1883 Become Exceptional in HTML and HTML5

## 1884 Become a Rockstar Web Developer - Learn By Coding

## 1885 WordPress Plugin Development for 2017 - Build 14 Plugins

## 1886 Writing CSS with {LESS} - Tutorial From Infinite Skills

## 1887 Getting Started with Magento

## 1888 Ruby on Rails Foundations

## 1889 Learn Facebook Flux Architecture for Web Applications

## 1890 Querying Microsoft SQL Server 2012 - (Exam No. 70-461)

## 1891 Modern E-Commerce Store In php & mysqli With Bootstrap

## 1892 Advance Unix : File Processing: AWK | GREP | VIM

## 1893 jQuery UI Ultimate:Design Amazing Interfaces Using jQuery UI

## 1894 JavaScript High Performance

## 1895 Create Newsletter Subscription Form with PHP/AJAX in 40 Min

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## 1898 Learn BuddyPress: Build A Social Network with WordPress

## 1899 HTML FOR BEGINNERS

## 1900 XML XQuery - Crash Course for Beginners

## 1901 JavaScript and jQuery Basics: Start The Journey

## 1902 CSS :basics for beginners

## 1903 Learn Effective HTML in No Time!

## 1904 HTML5 Geolocation in Depth:Build 7 HTML5 Geolocation Apps

## 1905 Building a Search Engine in PHP & MySQL

## 1906 CSS Image filters - The modern web images color manipulation

## 1907 Create a Membership Site with Wishlist Member & Wordpress

## 1908 Convert HTML Websites into PHP: Learn by Doing in 40 Minutes

## 1909 Mastering Unix : AWK Commands

## 1910 Cakephp:Creating a CRUD application

## 1911 HTML and CSS: A Guide to Web Design

## 1912 Drupal 8 Site Building

## 1913 Learn Bootstrap 4 The Most Popular HTML5 CSS3 & JS Framework

## 1914 The Extreme Web Development Course - For Beginners

## 1915 JQuery DOM and Ajax Concept Explained for Beginners

## 1916 Ultimate JavaScript Objects

## 1917 The Complete Web Developer Course - Build 20 Websites

## 1918 Simple Javascript: Learn by Doing, Beginners Welcome!

## 1919 Bootstrap 4 Beginners: Code a Responsive Landing Page

## 1920 Build Wordpress CMS Clone with Laravel 5

## 1921 XML DTD - Crash Course for Beginners

## 1922 Beginner Photoshop to HTML5 and CSS3

## 1923 XPATH :basics for beginners

## 1924 Building Better APIs with GraphQL

## 1925 Learn Grunt with Examples: Automate Your Front End Workflow

## 1926 jQuery UI in Action: Build 5 jQuery UI Projects

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## 1928 Learn and Build using Polymer

## 1929 CSS Animations: Create Amazing Effects on Your Website

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## 1791 All Levels

## 1792 All Levels

## 1793 All Levels

## 1794 All Levels

## 1795 All Levels

## 1796 All Levels

## 1797 All Levels

## 1798 All Levels

## 1799 All Levels

## 1800 All Levels

## 1801 All Levels

## 1802 All Levels

## 1803 All Levels

## 1804 All Levels

## 1805 All Levels

## 1806 All Levels

## 1807 All Levels

## 1808 All Levels

## 1809 All Levels

## 1810 All Levels

## 1811 All Levels

## 1812 All Levels

## 1813 All Levels

## 1814 All Levels

## 1815 All Levels

## 1816 All Levels

## 1817 All Levels

## 1818 All Levels

## 1819 All Levels

## 1820 All Levels

## 1821 All Levels

## 1822 All Levels

## 1823 All Levels

## 1824 All Levels

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## 1878 All Levels

## 1879 All Levels

## 1880 All Levels

## 1881 All Levels

## 1882 All Levels

## 1883 All Levels

## 1884 All Levels

## 1885 All Levels

## 1886 All Levels

## 1887 All Levels

## 1888 All Levels

## 1889 All Levels

## 1890 All Levels

## 1891 All Levels

## 1892 All Levels

## 1893 All Levels

## 1894 All Levels

## 1895 All Levels

## 1896 All Levels

## 1897 All Levels

## 1898 All Levels

## 1899 All Levels

## 1900 All Levels

## 1901 All Levels

## 1902 All Levels

## 1903 All Levels

## 1904 All Levels

## 1905 All Levels

## 1906 All Levels

## 1907 All Levels

## 1908 All Levels

## 1909 All Levels

## 1910 All Levels

## 1911 All Levels

## 1912 All Levels

## 1913 All Levels

## 1914 All Levels

## 1915 All Levels

## 1916 All Levels

## 1917 All Levels

## 1918 All Levels

## 1919 All Levels

## 1920 All Levels

## 1921 All Levels

## 1922 All Levels

## 1923 All Levels

## 1924 All Levels

## 1925 All Levels

## 1926 All Levels

## 1927 All Levels

## 1928 All Levels

## 1929 All Levels

what are the different courses are giving by udemy

we get that their is repetion of the coures and we have about 3678 courses served by udemy

ud %>%

group\_by(course\_title) %>%

summarise(cnt=n())

## `summarise()` ungrouping output (override with `.groups` argument)

## # A tibble: 3,663 x 2

## course\_title cnt

## <chr> <int>

## 1 "'Geometry Of Chance strategy of defeating the roulette.\"" 1

## 2 "'Greensleeves' Creative Piano Lessons Course" 1

## 3 "#1 Piano Hand Coordination: Play 10th Ballad in Eb Key songs" 1

## 4 "#10 Hand Coordination - Transfer Chord Ballad 9 - C & Bb Key" 1

## 5 "#12 Hand Coordination: Let your Hands dance with Ballad 9" 1

## 6 "#4 Piano Hand Coordination: Fun Piano Runs in 2 Beats C Key" 1

## 7 "#5 Piano Hand Coordination: Piano Runs in 2 Beats Eb Key" 1

## 8 "#6 Piano Hand Coordination: Play Open 10 Ballad to 9/4 Song" 1

## 9 "#7 Piano Hand Coordination: Play Piano Runs in 3 Beats 9/4" 1

## 10 "\* An Integrated Approach to the Fundamentals of Accounting" 1

## # ... with 3,653 more rows

count of each level

In this we came to know each level has how many courses are their

ud %>%

group\_by(level) %>%

summarise(cnt=n())

## `summarise()` ungrouping output (override with `.groups` argument)

## # A tibble: 4 x 2

## level cnt

## <chr> <int>

## 1 All Levels 1929

## 2 Beginner Level 1270

## 3 Expert Level 58

## 4 Intermediate Level 421

who’s top 10 price is equal to 200 and paid it

we came to know the price of the course and the what are paid of top 10 courses

ud %>%

select(price,paid) %>%

filter(price == 200) %>%

arrange(paid== 'TURE') %>%

head(10)

## price paid

## 1 200 TRUE

## 2 200 TRUE

## 3 200 TRUE

## 4 200 TRUE

## 5 200 TRUE

## 6 200 TRUE

## 7 200 TRUE

## 8 200 TRUE

## 9 200 TRUE

## 10 200 TRUE

add the column of income from subscribers

ud <- ud %>%

mutate(incom=price\*num\_subscribers)

head(ud)

## course\_id course\_title

## 1 1070968 Ultimate Investment Banking Course

## 2 1113822 Complete GST Course & Certification - Grow Your CA Practice

## 3 1006314 Financial Modeling for Business Analysts and Consultants

## 4 1210588 Beginner to Pro - Financial Analysis in Excel 2017

## 5 1011058 How To Maximize Your Profits Trading Options

## 6 192870 Trading Penny Stocks: A Guide for All Levels In 2017

## url

## 1 https://www.udemy.com/ultimate-investment-banking-course/

## 2 https://www.udemy.com/goods-and-services-tax/

## 3 https://www.udemy.com/financial-modeling-for-business-analysts-and-consultants/

## 4 https://www.udemy.com/complete-excel-finance-course-from-beginner-to-pro/

## 5 https://www.udemy.com/how-to-maximize-your-profits-trading-options/

## 6 https://www.udemy.com/trading-penny-stocks-a-guide-for-all-levels/

## paid price num\_subscribers num\_reviews num\_lectures level

## 1 TRUE 200 2147 23 51 All Levels

## 2 TRUE 75 2792 923 274 All Levels

## 3 TRUE 45 2174 74 51 Intermediate Level

## 4 TRUE 95 2451 11 36 All Levels

## 5 TRUE 200 1276 45 26 Intermediate Level

## 6 TRUE 150 9221 138 25 All Levels

## content\_duration published\_date subject no.H incom

## 1 1.5 2017-01-18 Business Finance 76.5 429400

## 2 39.0 2017-03-09 Business Finance 10686.0 209400

## 3 2.5 2016-12-19 Business Finance 127.5 97830

## 4 3.0 2017-05-30 Business Finance 108.0 232845

## 5 2.0 2016-12-13 Business Finance 52.0 255200

## 6 3.0 2014-05-02 Business Finance 75.0 1383150

show the income and no of subscribers between [2015-01-01 to 2016-01-01]

it is the date function ware we select the date and we get the data from this dates

ud %>%

select(published\_date,num\_subscribers,incom) %>%

filter(published\_date >= as.Date.character("2015-01-01")

& published\_date <= as.Date.character("2016-01-01"))

## published\_date num\_subscribers incom

## 1 2015-01-30 2917 277115

## 2 2015-05-28 5172 1008540

## 3 2015-09-11 4284 856800

## 4 2015-06-22 2276 170700

## 5 2015-08-10 2666 533200

## 6 2015-09-21 5354 267700

## 7 2015-05-26 10149 761175

## 8 2015-01-31 5786 867900

## 9 2015-04-12 4005 700875

## 10 2015-01-09 8797 395865

## 11 2015-05-19 7884 1537380

## 12 2015-10-22 7489 861235

## 13 2015-10-22 10042 1506300

## 14 2015-03-09 2996 374500

## 15 2015-01-24 8314 498840

## 16 2015-02-10 5050 631250

## 17 2015-02-19 5528 1022680

## 18 2015-02-20 12394 1177430

## 19 2015-08-13 2697 323640

## 20 2015-09-10 7743 735585

## 21 2015-06-16 2146 429200

## 22 2015-01-31 2493 236835

## 23 2015-10-28 2602 390300

## 24 2015-04-13 2000 80000

## 25 2015-08-04 1513 113475

## 26 2015-04-12 2103 84120

## 27 2015-01-08 2516 62900

## 28 2015-12-03 1971 98550

## 29 2015-12-14 1723 335985

## 30 2015-07-27 2153 204535

## 31 2015-04-16 3177 63540

## 32 2015-08-24 2096 314400

## 33 2015-11-18 1315 65750

## 34 2015-02-13 3771 94275

## 35 2015-11-10 3143 628600

## 36 2015-10-13 1951 39020

## 37 2015-04-20 2283 45660

## 38 2015-02-06 5057 151710

## 39 2015-08-06 4530 430350

## 40 2015-01-27 3050 610000

## 41 2015-09-29 2988 597600

## 42 2015-08-21 2623 91805

## 43 2015-07-16 1924 384800

## 44 2015-06-19 3804 760800

## 45 2015-10-08 4133 495960

## 46 2015-03-08 4086 102150

## 47 2015-08-09 3125 62500

## 48 2015-11-13 2115 423000

## 49 2015-10-09 2230 100350

## 50 2015-02-07 2222 44440

## 51 2015-05-11 2506 501200

## 52 2015-09-30 975 117000

## 53 2015-10-19 1398 202710

## 54 2015-10-29 1096 213720

## 55 2015-07-17 3094 61880

## 56 2015-03-03 1589 31780

## 57 2015-02-19 1189 23780

## 58 2015-06-19 701 35050

## 59 2015-02-11 1105 55250

## 60 2015-09-22 123 6150

## 61 2015-09-23 627 25080

## 62 2015-07-07 2474 123700

## 63 2015-09-07 1580 150100

## 64 2015-08-16 617 24680

## 65 2015-09-29 2235 44700

## 66 2015-01-06 2293 45860

## 67 2015-06-11 1218 91350

## 68 2015-07-20 1132 22640

## 69 2015-09-22 1271 254200

## 70 2015-02-21 1574 31480

## 71 2015-09-29 1393 27860

## 72 2015-03-19 843 25290

## 73 2015-06-16 871 82745

## 74 2015-10-14 1566 78300

## 75 2015-07-07 2177 87080

## 76 2015-06-01 1850 37000

## 77 2015-03-02 12 600

## 78 2015-03-08 13 260

## 79 2015-02-23 7 245

## 80 2015-11-03 131 6550

## 81 2015-11-23 2092 418400

## 82 2015-04-02 4601 138030

## 83 2015-09-16 4034 201700

## 84 2015-05-28 26 910

## 85 2015-11-19 11 220

## 86 2015-11-28 106 13250

## 87 2015-02-15 2079 0

## 88 2015-06-07 135 2700

## 89 2015-04-13 5007 0

## 90 2015-09-05 1168 58400

## 91 2015-07-16 912 136800

## 92 2015-11-24 1135 39725

## 93 2015-11-06 1048 209600

## 94 2015-07-21 1740 34800

## 95 2015-06-23 1749 34980

## 96 2015-07-14 1263 88410

## 97 2015-06-01 47 3525

## 98 2015-07-21 120 2400

## 99 2015-05-25 68 1360

## 100 2015-07-12 844 42200

## 101 2015-04-12 2045 40900

## 102 2015-01-25 1168 23360

## 103 2015-07-07 2268 45360

## 104 2015-04-17 631 126200

## 105 2015-05-06 1132 203760

## 106 2015-08-20 1169 46760

## 107 2015-07-19 1340 201000

## 108 2015-10-26 274 26030

## 109 2015-02-07 4863 0

## 110 2015-03-24 1923 38460

## 111 2015-04-06 1276 248820

## 112 2015-03-06 8985 0

## 113 2015-01-26 2591 259100

## 114 2015-09-20 2239 44780

## 115 2015-07-20 1882 376400

## 116 2015-04-10 3056 550080

## 117 2015-06-19 1303 97725

## 118 2015-01-15 2924 73100

## 119 2015-06-12 1405 70250

## 120 2015-07-08 1776 168720

## 121 2015-07-01 1643 65720

## 122 2015-02-13 951 137895

## 123 2015-07-02 1278 38340

## 124 2015-07-28 1184 59200

## 125 2015-04-10 3730 74600

## 126 2015-09-17 2692 134600

## 127 2015-07-22 2305 334225

## 128 2015-06-19 2769 55380

## 129 2015-08-03 2187 109350

## 130 2015-10-13 1609 32180

## 131 2015-11-23 2895 57900

## 132 2015-07-14 4497 89940

## 133 2015-04-12 3555 142200

## 134 2015-02-13 23 690

## 135 2015-09-20 12 540

## 136 2015-04-06 132 3300

## 137 2015-08-12 480 9600

## 138 2015-10-10 37 740

## 139 2015-05-14 751 22530

## 140 2015-05-15 49 1715

## 141 2015-08-27 811 162200

## 142 2015-01-20 956 47800

## 143 2015-06-17 26 2470

## 144 2015-11-01 91 3185

## 145 2015-03-08 30 900

## 146 2015-09-23 226 44070

## 147 2015-07-30 4770 0

## 148 2015-03-05 472 23600

## 149 2015-09-12 375 20625

## 150 2015-01-27 283 5660

## 151 2015-03-06 683 37565

## 152 2015-10-29 618 30900

## 153 2015-06-05 911 18220

## 154 2015-01-29 302 28690

## 155 2015-05-24 79 1580

## 156 2015-06-22 1498 299600

## 157 2015-05-05 2317 46340

## 158 2015-03-23 1202 114190

## 159 2015-05-25 2189 43780

## 160 2016-01-01 1199 239800

## 161 2015-09-14 1512 294840

## 162 2015-06-19 1806 361200

## 163 2015-05-28 3757 0

## 164 2015-04-27 828 16560

## 165 2015-11-02 246 4920

## 166 2015-06-01 3 60

## 167 2015-09-15 3 90

## 168 2015-09-04 2 40

## 169 2015-11-17 1 20

## 170 2015-04-24 731 14620

## 171 2015-03-26 507 91260

## 172 2015-11-03 375 56250

## 173 2015-06-17 638 60610

## 174 2015-07-17 64 1280

## 175 2015-01-09 814 40700

## 176 2015-12-08 29 580

## 177 2015-03-19 214 16050

## 178 2015-07-10 56 1120

## 179 2015-12-03 58 11310

## 180 2015-04-24 166 9130

## 181 2015-12-04 35 1050

## 182 2015-11-03 1519 75950

## 183 2015-04-13 2025 81000

## 184 2015-01-20 5099 101980

## 185 2015-08-31 869 173800

## 186 2015-09-25 8 400

## 187 2015-11-21 8 400

## 188 2015-02-18 11 550

## 189 2015-08-30 273 54600

## 190 2015-08-04 37 740

## 191 2015-09-23 260 5200

## 192 2015-11-12 299 28405

## 193 2015-05-19 65 1300

## 194 2015-02-18 92 3680

## 195 2015-11-06 21 420

## 196 2015-08-24 16 800

## 197 2015-05-20 11 220

## 198 2015-12-18 360 70200

## 199 2015-11-25 3426 0

## 200 2015-10-07 1222 116090

## 201 2015-11-13 5768 0

## 202 2015-07-10 6 180

## 203 2015-10-04 632 18960

## 204 2015-07-01 1489 67005

## 205 2015-05-26 1079 215800

## 206 2015-09-28 2222 111100

## 207 2015-02-19 51 1020

## 208 2015-01-30 347 13880

## 209 2015-11-18 359 71800

## 210 2015-11-10 280 9800

## 211 2015-07-29 17 2550

## 212 2015-08-21 247 4940

## 213 2015-07-22 6 300

## 214 2015-11-30 5 200

## 215 2015-05-26 227 4540

## 216 2015-07-19 1750 131250

## 217 2015-03-15 3360 319200

## 218 2015-09-16 3425 171250

## 219 2015-05-13 2688 255360

## 220 2015-07-07 1699 339800

## 221 2015-12-29 1037 20740

## 222 2015-12-07 23 460

## 223 2015-08-16 112 4480

## 224 2015-02-26 152 7600

## 225 2015-01-02 267 8010

## 226 2015-11-12 154 7700

## 227 2015-09-14 5108 102160

## 228 2015-04-20 2075 0

## 229 2015-09-25 45 4500

## 230 2015-03-29 44 880

## 231 2015-02-12 294 11760

## 232 2015-07-02 27 810

## 233 2015-11-19 1732 86600

## 234 2015-09-20 2185 43700

## 235 2015-12-29 1173 234600

## 236 2015-07-14 49 2450

## 237 2015-03-02 124 4960

## 238 2015-06-03 105 2100

## 239 2015-08-28 91 8645

## 240 2015-07-19 83 4150

## 241 2015-01-10 554 110800

## 242 2015-06-14 807 117015

## 243 2015-02-08 1909 381800

## 244 2015-01-27 1255 25100

## 245 2015-11-11 1309 183260

## 246 2015-08-24 1942 330140

## 247 2015-01-07 885 44250

## 248 2015-12-09 461 69150

## 249 2015-08-16 2801 420150

## 250 2015-10-09 8236 0

## 251 2015-03-31 2383 47660

## 252 2015-02-24 2650 66250

## 253 2015-04-16 663 16575

## 254 2015-02-06 3519 0

## 255 2015-06-01 18 900

## 256 2015-09-17 103 2060

## 257 2015-10-26 7 350

## 258 2015-07-07 104 9880

## 259 2015-11-09 241 4820

## 260 2015-07-23 100 5000

## 261 2015-07-06 99 4950

## 262 2015-04-06 99 3960

## 263 2015-09-13 646 12920

## 264 2015-05-01 520 10400

## 265 2015-03-10 1440 43200

## 266 2015-10-23 16 1440

## 267 2015-07-30 25 500

## 268 2015-01-30 10 500

## 269 2015-12-17 0 0

## 270 2015-09-23 1509 30180

## 271 2015-07-16 462 11550

## 272 2015-12-14 103 20600

## 273 2015-08-25 27 540

## 274 2015-01-09 27 810

## 275 2015-12-16 335 48575

## 276 2015-08-23 5 100

## 277 2015-03-29 9 180

## 278 2015-02-13 42 1470

## 279 2015-09-15 206 10300

## 280 2015-07-24 28 560

## 281 2015-10-28 2119 0

## 282 2015-04-26 503 90540

## 283 2015-05-25 1150 109250

## 284 2015-06-01 1403 28060

## 285 2015-10-17 627 12540

## 286 2015-01-08 217 10850

## 287 2015-11-23 397 19850

## 288 2015-03-26 44 880

## 289 2015-08-13 30 1500

## 290 2015-01-08 94 9400

## 291 2015-09-15 393 7860

## 292 2015-12-17 1888 0

## 293 2015-07-16 61 2440

## 294 2015-07-09 61 1220

## 295 2015-08-03 22 1100

## 296 2015-04-08 152 7600

## 297 2015-03-27 327 6540

## 298 2015-10-08 264 25080

## 299 2015-05-22 1311 39330

## 300 2015-03-29 137 6850

## 301 2015-02-26 119 5950

## 302 2015-08-05 40 2000

## 303 2015-11-13 5 200

## 304 2015-11-02 4 80

## 305 2015-07-05 313 6260

## 306 2015-04-09 66 1980

## 307 2015-08-14 270 8100

## 308 2015-06-16 244 4880

## 309 2015-11-26 31 2635

## 310 2015-11-12 6 120

## 311 2015-10-06 5983 179490

## 312 2015-08-10 1673 334600

## 313 2015-01-27 1798 53940

## 314 2015-10-05 813 113820

## 315 2015-04-01 28 560

## 316 2015-03-08 149 5960

## 317 2015-08-04 108 4320

## 318 2015-11-23 132 2640

## 319 2015-10-26 285 35625

## 320 2015-02-25 59 1180

## 321 2015-11-06 483 94185

## 322 2015-04-20 1542 30840

## 323 2015-08-27 384 11520

## 324 2015-01-09 454 18160

## 325 2015-08-11 315 12600

## 326 2015-12-17 1044 20880

## 327 2015-11-11 358 71600

## 328 2015-06-16 80 4000

## 329 2015-01-31 718 14360

## 330 2015-01-12 1195 59750

## 331 2015-11-27 335 31825

## 332 2015-04-26 500 20000

## 333 2015-09-01 87 1740

## 334 2015-09-23 486 9720

## 335 2015-04-20 106 2120

## 336 2015-12-01 32 2080

## 337 2015-08-27 397 77415

## 338 2015-01-23 1235 37050

## 339 2015-02-17 1573 157300

## 340 2015-09-27 551 19285

## 341 2015-10-01 4297 859400

## 342 2015-08-13 14440 288800

## 343 2015-08-31 381 0

## 344 2015-01-03 7282 546150

## 345 2015-08-18 8196 1639200

## 346 2015-11-09 6858 651510

## 347 2015-10-21 1279 38370

## 348 2015-02-26 1080 21600

## 349 2015-11-16 331 8275

## 350 2015-10-09 817 0

## 351 2015-06-05 6975 1395000

## 352 2015-12-21 9464 236600

## 353 2015-01-05 25277 505540

## 354 2015-07-29 6028 1205600

## 355 2015-09-08 5104 102080

## 356 2015-12-29 2476 371400

## 357 2015-01-30 3000 450000

## 358 2015-11-04 1552 294880

## 359 2015-11-11 1076 21520

## 360 2015-02-20 919 183800

## 361 2015-04-20 1224 91800

## 362 2015-04-08 774 34830

## 363 2015-11-06 715 85800

## 364 2015-06-03 1768 35360

## 365 2015-10-15 276 8280

## 366 2015-08-21 1079 113295

## 367 2015-11-03 1440 43200

## 368 2015-07-14 827 78565

## 369 2015-10-04 8786 0

## 370 2015-10-09 1056 52800

## 371 2015-10-14 821 164200

## 372 2015-10-14 1150 230000

## 373 2015-06-19 1090 81750

## 374 2015-07-07 1235 61750

## 375 2015-01-08 1452 29040

## 376 2015-06-08 33 660

## 377 2015-06-12 3812 0

## 378 2015-11-18 1373 137300

## 379 2015-05-18 441 8820

## 380 2015-09-04 300 45000

## 381 2015-12-30 211 14770

## 382 2015-12-22 190 11400

## 383 2015-06-08 2091 418200

## 384 2015-07-10 1002 20040

## 385 2015-11-09 500 10000

## 386 2015-03-05 1825 173375

## 387 2015-08-13 2266 67980

## 388 2015-02-19 2745 398025

## 389 2015-11-12 1530 61200

## 390 2015-11-11 1338 133800

## 391 2015-04-30 1479 244035

## 392 2015-02-02 934 28020

## 393 2015-09-23 6429 0

## 394 2015-03-05 422 10550

## 395 2015-01-22 44044 0

## 396 2015-08-06 1367 198215

## 397 2015-04-26 2067 403065

## 398 2015-09-17 1679 33580

## 399 2015-05-27 1275 172125

## 400 2015-05-06 3117 233775

## 401 2015-08-03 4208 84160

## 402 2015-11-09 23229 0

## 403 2015-08-18 1468 73400

## 404 2015-02-05 2044 61320

## 405 2015-06-22 2228 434460

## 406 2015-02-23 987 19740

## 407 2015-04-27 1087 125005

## 408 2015-10-14 1098 54900

## 409 2015-05-22 1738 34760

## 410 2015-10-12 1080 21600

## 411 2015-05-25 2911 582200

## 412 2015-02-09 4353 130590

## 413 2015-01-15 3481 69620

## 414 2015-09-24 12103 0

## 415 2015-03-22 1418 134710

## 416 2015-03-23 3 75

## 417 2015-11-24 1 20

## 418 2015-11-24 1 20

## 419 2015-08-19 108 2160

## 420 2015-04-07 3360 655200

## 421 2015-04-26 4927 492700

## 422 2015-11-11 2911 451205

## 423 2015-11-17 1797 35940

## 424 2015-08-06 3192 143640

## 425 2015-09-21 183 7320

## 426 2015-10-25 353 7060

## 427 2015-05-08 27 540

## 428 2015-06-17 18 900

## 429 2015-08-04 5 100

## 430 2015-08-09 34 680

## 431 2015-02-25 6039 1207800

## 432 2015-07-28 4449 889800

## 433 2015-06-03 5840 1138800

## 434 2015-04-28 507 10140

## 435 2015-07-14 228 4560

## 436 2015-04-10 21 420

## 437 2015-05-01 92 9200

## 438 2015-08-13 177 6195

## 439 2015-06-08 668 133600

## 440 2015-01-07 11 220

## 441 2015-01-29 9 180

## 442 2015-08-18 9 360

## 443 2015-01-12 6 120

## 444 2015-06-22 4 320

## 445 2015-08-04 4 80

## 446 2015-07-07 1 20

## 447 2015-11-11 220 29700

## 448 2015-01-05 481 9620

## 449 2015-08-11 593 11860

## 450 2015-01-27 528 31680

## 451 2015-04-05 1207 24140

## 452 2015-10-15 36 720

## 453 2015-12-22 3 60

## 454 2015-01-20 970 19400

## 455 2015-03-31 725 14500

## 456 2015-10-30 142 7100

## 457 2015-08-07 317 31700

## 458 2015-06-26 115 5175

## 459 2015-02-26 780 15600

## 460 2015-04-17 57 1425

## 461 2015-07-14 5 100

## 462 2015-06-02 34 680

## 463 2015-03-05 5471 1094200

## 464 2015-06-20 4961 992200

## 465 2015-05-26 5850 204750

## 466 2015-02-06 2325 383625

## 467 2015-02-13 86 1720

## 468 2015-10-22 11 220

## 469 2015-12-09 42 2100

## 470 2015-01-17 27 540

## 471 2015-09-30 19 380

## 472 2015-03-22 802 16040

## 473 2015-07-08 1132 56600

## 474 2015-06-24 509 10180

## 475 2015-10-25 342 13680

## 476 2015-03-26 99 1980

## 477 2015-09-15 113 2260

## 478 2015-07-02 66 1320

## 479 2015-05-20 4550 113750

## 480 2015-09-28 17 850

## 481 2015-08-17 293 8790

## 482 2015-10-29 1447 0

## 483 2015-08-21 86 2580

## 484 2015-06-08 15 525

## 485 2015-04-22 33 660

## 486 2015-10-08 36 1620

## 487 2015-07-05 30 600

## 488 2015-03-16 22 440

## 489 2015-01-29 1081 21620

## 490 2015-08-07 189 3780

## 491 2015-07-26 88 1760

## 492 2015-04-17 237 4740

## 493 2015-11-09 1005 201000

## 494 2015-03-19 485 16975

## 495 2015-03-03 238 4760

## 496 2015-01-21 105 8925

## 497 2015-07-10 82 2050

## 498 2015-12-09 98 19600

## 499 2015-01-30 91 1820

## 500 2015-05-25 121 23595

## 501 2015-05-04 494 17290

## 502 2015-06-08 518 10360

## 503 2015-04-20 33 660

## 504 2015-11-08 774 15480

## 505 2015-03-16 837 16740

## 506 2015-05-12 254 5080

## 507 2015-05-12 84 1680

## 508 2015-07-08 32 640

## 509 2015-12-21 4529 0

## 510 2015-12-11 823 16460

## 511 2015-03-29 1327 39810

## 512 2015-10-20 1474 117920

## 513 2015-07-22 835 16700

## 514 2015-11-10 747 52290

## 515 2015-10-16 1337 40110

## 516 2015-11-01 515 18025

## 517 2015-06-12 1026 20520

## 518 2015-10-02 117 6435

## 519 2015-04-16 305 15250

## 520 2015-09-10 153 3060

## 521 2015-10-18 122 2440

## 522 2015-03-04 402 20100

## 523 2015-10-12 119 3570

## 524 2015-07-28 605 12100

## 525 2015-01-01 877 43850

## 526 2015-02-07 1064 101080

## 527 2015-12-12 1229 122900

## 528 2015-10-16 1732 86600

## 529 2015-10-26 1284 102720

## 530 2015-11-30 1029 41160

## 531 2015-02-02 886 44300

## 532 2015-02-13 1605 160500

## 533 2015-09-24 1548 77400

## 534 2015-07-24 543 21720

## 535 2015-12-18 144 4320

## 536 2015-11-13 537 107400

## 537 2015-02-09 595 68425

## 538 2015-07-23 390 15600

## 539 2015-08-01 496 19840

## 540 2015-12-15 868 34720

## 541 2015-07-10 1224 24480

## 542 2015-07-16 2002 140140

## 543 2015-11-17 746 89520

## 544 2015-09-01 927 69525

## 545 2015-08-07 953 19060

## 546 2015-09-28 469 16415

## 547 2015-09-02 600 72000

## 548 2015-10-26 1018 71260

## 549 2015-04-15 380 57000

## 550 2015-07-06 2154 107700

## 551 2015-08-16 14922 0

## 552 2015-07-01 2788 139400

## 553 2015-11-10 834 58380

## 554 2015-04-20 382 76400

## 555 2015-03-03 5543 0

## 556 2015-11-22 1060 42400

## 557 2015-12-10 193 9650

## 558 2015-01-22 5769 0

## 559 2015-01-01 500 25000

## 560 2015-11-20 346 51900

## 561 2015-06-25 353 22945

## 562 2015-06-21 1513 37825

## 563 2015-03-30 6853 0

## 564 2015-08-05 776 15520

## 565 2015-01-04 1350 270000

## 566 2015-05-28 1141 28525

## 567 2015-10-12 1203 66165

## 568 2015-07-26 5188 0

## 569 2015-04-28 21701 4340200

## 570 2015-04-29 10869 543450

## 571 2015-11-30 4192 209600

## 572 2015-11-22 3206 641200

## 573 2015-06-14 3013 165715

## 574 2015-05-22 2795 125775

## 575 2015-11-04 2164 151480

## 576 2015-02-17 2415 229425

## 577 2015-11-10 1268 50720

## 578 2015-08-17 4560 91200

## 579 2015-08-04 6565 1313000

## 580 2015-12-03 3937 98425

## 581 2015-08-20 4982 473290

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## 583 2015-12-15 60 1500

## 584 2015-11-12 122 4880

## 585 2015-04-16 106 5300

## 586 2015-10-13 77 2310

## 587 2015-08-18 1305 26100

## 588 2015-11-02 769 53830

## 589 2015-12-01 630 12600

## 590 2015-06-02 249 11205

## 591 2015-08-17 58 2320

## 592 2015-08-17 53 1060

## 593 2015-11-23 1631 0

## 594 2015-07-21 5 250

## 595 2015-11-22 30 1800

## 596 2015-04-16 90 4500

## 597 2015-10-24 42 2730

## 598 2015-09-24 88 4400

## 599 2015-10-28 8 200

## 600 2015-11-14 122 12200

## 601 2015-06-09 36 720

## 602 2015-10-07 111 3330

## 603 2015-06-09 65 1300

## 604 2015-09-13 18 360

## 605 2015-10-08 211 10550

## 606 2015-01-22 7 140

## 607 2015-06-09 11 220

## 608 2015-03-15 57 1995

## 609 2015-08-10 115 10925

## 610 2015-07-23 420 8400

## 611 2015-01-16 425 21250

## 612 2015-11-11 383 19150

## 613 2015-10-28 291 23280

## 614 2015-10-26 489 19560

## 615 2015-03-04 231 11550

## 616 2015-04-27 114 5700

## 617 2015-11-01 75 1500

## 618 2015-04-15 184 9200

## 619 2015-09-07 205 10250

## 620 2015-04-16 120 6000

## 621 2015-01-01 232 11600

## 622 2015-01-01 148 7400

## 623 2015-11-07 69 1380

## 624 2015-04-21 113 22035

## 625 2015-12-17 58 1160

## 626 2015-07-03 2577 0

## 627 2015-08-21 62 1240

## 628 2015-05-04 19 665

## 629 2015-04-15 197 9850

## 630 2015-11-17 58 1160

## 631 2015-08-06 5 475

## 632 2015-04-15 173 8650

## 633 2015-04-15 177 8850

## 634 2015-08-13 510 17850

## 635 2015-03-24 1 20

## 636 2015-04-10 13 260

## 637 2015-03-23 118 2360

## 638 2015-01-03 113 2260

## 639 2015-04-15 205 10250

## 640 2015-10-26 213 4260

## 641 2015-01-01 98 4900

## 642 2015-12-28 41 820

## 643 2015-06-26 139 15985

## 644 2015-01-22 196 4900

## 645 2015-11-05 185 36075

## 646 2015-12-06 17 850

## 647 2015-06-17 70 2800

## 648 2015-10-16 80 3600

## 649 2015-07-06 41 820

## 650 2015-09-22 156 7800

## 651 2015-08-14 31 620

## 652 2015-12-17 6 120

## 653 2015-12-17 3 60

## 654 2015-10-20 3 60

## 655 2015-01-09 3 60

## 656 2015-01-13 3 75

## 657 2015-04-15 164 8200

## 658 2015-10-04 19 665

## 659 2015-09-23 46 2300

## 660 2015-10-19 22 440

## 661 2015-11-06 120 4800

## 662 2015-03-19 3160 0

## 663 2015-07-22 455 9100

## 664 2015-12-07 136 3400

## 665 2015-03-19 63 3150

## 666 2015-10-18 27 540

## 667 2015-07-29 991 0

## 668 2015-09-01 61 0

## 669 2015-11-12 255 25500

## 670 2015-10-19 25 500

## 671 2015-10-19 19 380

## 672 2015-02-06 478 14340

## 673 2015-11-25 59 1180

## 674 2015-09-10 81 1620

## 675 2015-07-01 2995 0

## 676 2015-08-19 81 3240

## 677 2015-04-15 225 11250

## 678 2015-03-09 248 49600

## 679 2015-06-11 4 80

## 680 2015-10-17 23764 475280

## 681 2015-10-27 24978 4870710

## 682 2015-11-26 2607 260700

## 683 2015-02-23 14813 888780

## 684 2015-11-21 6601 1320200

## 685 2015-08-25 9421 1837095

## 686 2015-11-20 9668 966800

## 687 2015-10-22 9384 1407600

## 688 2015-02-09 17714 1239980

## 689 2015-10-28 9554 191080

## 690 2015-08-11 22213 2221300

## 691 2015-03-02 7852 981500

## 692 2015-07-30 7380 553500

## 693 2015-11-13 8234 205850

## 694 2015-12-15 8691 869100

## 695 2015-04-22 10150 507500

## 696 2015-10-02 14026 0

## 697 2015-01-16 21147 0

## 698 2015-09-12 1385 138500

## 699 2015-10-28 1772 53160

## 700 2015-04-13 98867 0

## 701 2015-01-22 2472 98880

## 702 2015-03-18 1811 172045

## 703 2015-04-09 26697 0

## 704 2015-02-23 3011 150550

## 705 2015-11-26 24861 4972200

## 706 2015-01-07 11262 563100

## 707 2015-12-29 17895 3489525

## 708 2015-06-03 6497 1299400

## 709 2015-06-25 7146 285840

## 710 2015-01-22 2353 470600

## 711 2015-06-19 3015 587925

## 712 2015-10-17 8711 740435

## 713 2015-08-04 13882 2082300

## 714 2015-07-27 57422 11197290

## 715 2015-08-14 10179 967005

## 716 2015-08-14 18101 2715150

## 717 2015-11-12 2789 264955

## 718 2015-05-13 14254 1069050

## 719 2015-08-11 10518 2051010

## 720 2015-06-14 6153 922950

## 721 2016-01-01 1658 82900

## 722 2015-01-19 14103 2679570

## 723 2015-01-31 5089 508900

## 724 2015-10-08 2596 77880

## 725 2015-02-02 1783 80235

## 726 2015-01-03 12974 0

## 727 2015-09-09 3877 77540

## 728 2015-07-09 2919 87570

## 729 2015-03-04 2409 108405

## 730 2015-09-07 3887 777400

## 731 2015-01-26 5387 215480

## 732 2015-11-26 4563 456300

## 733 2015-05-27 3757 375700

## 734 2015-07-30 4193 83860

## 735 2015-08-28 3694 73880

## 736 2015-02-05 1905 85725

## 737 2015-10-14 2875 560625

## 738 2015-07-08 2382 47640

## 739 2015-10-30 3249 81225

## 740 2015-05-18 3150 63000

## 741 2015-08-03 4011 80220

## 742 2015-03-20 6937 173425

## 743 2015-11-02 4839 169365

## 744 2015-04-26 5715 571500

## 745 2015-08-20 4537 453700

## 746 2015-07-17 5117 511700

## 747 2015-06-03 6890 689000

## 748 2015-09-28 4628 231400

## 749 2015-12-29 31499 6142305

## 750 2015-07-07 18777 375540

## 751 2015-07-26 13406 1340600

## 752 2015-12-29 16731 1254825

## 753 2015-02-12 1780 44500

## 754 2015-10-25 1157 69420

## 755 2015-12-29 2039 234485

## 756 2015-05-21 26541 0

## 757 2015-10-29 16590 1244250

## 758 2015-10-14 8320 166400

## 759 2015-03-13 4183 292810

## 760 2015-05-15 1266 253200

## 761 2015-12-29 5004 0

## 762 2015-07-16 342 17100

## 763 2015-09-07 130 2600

## 764 2015-07-07 1018 50900

## 765 2015-08-18 4830 0

## 766 2015-09-15 1087 27175

## 767 2015-08-11 245 9800

## 768 2015-12-29 353 33535

## 769 2015-09-03 464 44080

## 770 2015-12-06 298 10430

## 771 2015-12-27 2238 44760

## 772 2015-10-14 3380 219700

## 773 2015-04-24 4732 236600

## 774 2015-07-01 2626 105040

## 775 2015-11-13 5065 481175

## 776 2015-04-28 6413 192390

## 777 2015-04-08 7017 140340

## 778 2015-08-11 6510 1269450

## 779 2015-03-04 3299 65980

## 780 2015-12-14 11574 2314800

## 781 2015-06-23 22355 1676625

## 782 2015-08-12 8577 1715400

## 783 2015-05-18 5484 685500

## 784 2015-11-03 6293 409045

## 785 2015-11-26 8067 605025

## 786 2015-11-18 9332 1586440

## 787 2015-09-20 3271 65420

## 788 2015-07-22 5077 228465

## 789 2015-10-05 6508 1301600

## 790 2015-07-15 11758 0

## 791 2015-10-06 1428 28560

## 792 2015-02-17 1518 151800

## 793 2015-09-10 1169 23380

## 794 2015-12-08 1731 34620

## 795 2015-12-15 2749 54980

## 796 2015-04-23 3831 747045

## 797 2015-10-01 2071 155325

## 798 2015-09-20 8770 0

## 799 2015-04-15 9786 0

## 800 2015-03-10 1904 38080

## 801 2015-04-13 2134 373450

## 802 2015-03-05 4675 444125

## 803 2015-10-22 1433 57320

## 804 2015-12-02 3461 69220

## 805 2015-11-05 2650 106000

## 806 2015-11-01 1640 106600

## 807 2015-06-17 1815 172425

## 808 2015-07-16 5318 106360

## 809 2015-07-30 7018 140360

## 810 2015-01-14 4020 582900

## 811 2015-12-06 1248 62400

## 812 2015-09-29 4587 894465

## 813 2015-01-21 2351 117550

## 814 2015-12-29 3898 77960

## 815 2015-05-08 3185 63700

## 816 2015-06-01 17554 351080

## 817 2015-11-11 10576 1533520

## 818 2015-03-24 2971 297100

## 819 2015-07-14 1355 54200

## 820 2015-09-20 2335 46700

## 821 2015-08-24 1948 38960

## 822 2015-12-01 841 33640

## 823 2015-03-04 9364 0

## 824 2015-09-04 694 65930

## 825 2015-09-12 11892 1189200

## 826 2015-10-29 15106 1132950

## 827 2015-07-28 9028 180560

## 828 2015-09-21 5177 491815

## 829 2015-09-25 28125 2250000

## 830 2015-09-25 14260 1426000

## 831 2015-11-27 12882 966150

## 832 2015-11-13 12368 2411760

## 833 2015-05-31 7416 148320

## 834 2015-12-04 4407 220350

## 835 2015-09-07 1407 161805

## 836 2015-11-13 1186 65230

## 837 2015-11-10 1421 28420

## 838 2015-07-26 1550 77500

## 839 2015-06-01 1309 32725

## 840 2015-11-11 723 28920

## 841 2015-03-22 1318 26360

## 842 2015-01-14 12293 0

## 843 2015-11-06 1447 28940

## 844 2015-09-14 948 18960

## 845 2015-08-13 2023 151725

## 846 2015-08-28 3701 370100

## 847 2015-09-29 1388 131860

## 848 2015-04-21 2002 40040

## 849 2015-06-11 876 65700

## 850 2015-08-09 973 72975

## 851 2015-07-13 2177 43540

## 852 2015-07-20 1063 21260

## 853 2015-03-13 1309 45815

## 854 2015-11-08 7489 823790

## 855 2015-11-09 7501 1500200

## 856 2015-12-16 4820 361500

## 857 2015-08-26 24575 3686250

## 858 2015-07-20 5800 580000

## 859 2015-08-14 2706 473550

## 860 2015-03-04 3420 410400

## 861 2015-08-18 7130 677350

## 862 2015-11-11 918 179010

## 863 2015-02-25 461 23050

## 864 2015-07-14 333 11655

## 865 2015-06-05 305 12200

## 866 2015-09-02 644 12880

## 867 2015-11-23 415 20750

## 868 2015-08-26 4290 0

## 869 2015-09-22 55332 10789740

## 870 2015-02-21 4128 309600

## 871 2015-09-15 1949 97450

## 872 2015-02-14 28880 5776000

## 873 2015-02-23 17334 1733400

## 874 2015-10-23 33677 6567015

## 875 2015-09-15 3485 121975

## 876 2015-07-20 2185 207575

## 877 2015-10-19 2573 115785

## 878 2015-11-02 121584 24316800

## 879 2015-08-20 33788 6757600

## 880 2015-07-13 2760 276000

## 881 2015-01-13 1628 236060

## 882 2015-03-12 79612 13932100

## 883 2015-03-24 43977 8575515

## 884 2015-08-31 58208 11350560

## 885 2015-12-28 50815 9146700

## 886 2015-07-15 6474 0

## 887 2015-11-29 1494 291330

## 888 2015-02-25 2073 196935

## 889 2015-09-13 885 106200

## 890 2015-03-23 586 35160

## 891 2015-06-16 1448 289600

## 892 2015-12-30 1769 35380

## 893 2015-04-02 2281 45620

## 894 2015-02-06 20890 0

## 895 2015-12-17 1945 145875

## 896 2015-06-16 1193 119300

## 897 2015-07-27 11812 0

## 898 2015-11-10 746 22380

## 899 2015-12-07 1551 46530

## 900 2015-08-27 954 19080

## 901 2015-09-29 15462 0

## 902 2015-11-25 2421 484200

## 903 2015-03-19 70773 0

## 904 2015-12-30 41478 0

## 905 2015-02-09 5533 0

## 906 2015-02-17 533 39975

## 907 2015-06-05 1236 98880

## 908 2015-07-01 1020 102000

## 909 2015-05-01 1142 97070

## 910 2015-02-24 1766 344370

## 911 2015-07-14 912 27360

## 912 2015-04-19 1305 32625

## 913 2015-04-06 3397 679400

## 914 2015-06-30 30531 0

## 915 2015-12-10 494 46930

## 916 2015-05-15 1550 46500

## 917 2015-01-17 5421 0

## 918 2015-07-10 707 84840

## 919 2015-10-21 12952 0

## 920 2015-07-20 2299 45980

## 921 2015-09-23 2470 86450

## 922 2015-04-13 2888 274360

## 923 2015-10-01 7789 701010

## 924 2015-08-21 10394 935460

## 925 2015-07-16 4714 942800

## 926 2015-04-21 11339 623645

## 927 2015-10-21 1156 98260

## 928 2015-03-02 1534 84370

## 929 2015-12-10 627 25080

## 930 2015-03-04 7484 0

## 931 2015-06-12 876 74460

## 932 2015-02-12 1143 28575

## 933 2015-01-23 1442 28840

## 934 2015-04-13 1318 164750

## 935 2015-04-12 1553 77650

## 936 2015-05-21 1540 69300

## 937 2015-08-06 1655 41375

## 938 2015-03-17 869 43450

## 939 2015-05-14 1414 212100

## 940 2015-05-20 604 27180

## 941 2015-08-31 549 109800

## 942 2015-06-05 1220 244000

## 943 2015-05-14 1588 63520

## 944 2015-08-05 5368 187880

## 945 2015-09-08 5228 104560

## 946 2015-11-26 4529 905800

## 947 2015-01-04 2267 136020

## 948 2015-10-15 17463 0

## 949 2015-10-13 1284 256800

## 950 2015-11-13 1098 21960

## 951 2015-04-08 481 45695

## 952 2015-03-02 1061 37135

## 953 2015-08-07 1312 26240

## 954 2015-09-20 11011 2202200

## 955 2015-07-28 2784 139200

## 956 2015-03-04 2912 291200

## 957 2015-04-24 9687 1888965

## 958 2015-07-23 12629 947175

## 959 2015-11-06 651 48825

## 960 2015-07-24 1926 77040

## 961 2015-06-09 10917 0

## 962 2015-06-23 1701 170100

## 963 2015-07-27 636 31800

## 964 2015-01-26 1478 44340

## 965 2015-07-31 1062 21240

## 966 2015-08-18 613 30650

## 967 2015-01-13 2152 107600

## 968 2015-04-20 1566 187920

## 969 2015-02-05 2306 46120

## 970 2015-10-15 633 25320

## 971 2015-04-08 631 47325

## 972 2015-07-12 1853 185300

## 973 2015-09-08 1658 82900

## 974 2015-11-03 976 19520

## 975 2015-07-08 1276 255200

## 976 2015-05-07 1262 132510

## 977 2015-11-17 1780 35600

## 978 2015-11-29 2389 47780

## 979 2015-03-24 1468 58720

## 980 2015-10-02 6000 570000

## 981 2015-06-08 7449 1489800

## 982 2015-07-27 3399 679800

## 983 2015-11-02 9355 1871000

## 984 2015-11-18 325 13000

## 985 2015-10-02 203 10150

## 986 2015-10-16 424 40280

## 987 2015-10-30 4797 311805

## 988 2015-06-07 5129 1025800

## 989 2015-07-28 5272 105440

## 990 2015-01-24 6008 120160

## 991 2015-08-11 3770 188500

## 992 2015-08-16 722 14440

## 993 2015-11-16 359 7180

## 994 2015-11-05 395 15800

## 995 2015-11-10 385 7700

## 996 2015-03-12 666 56610

## 997 2015-08-09 5014 0

## 998 2015-06-12 458 43510

## 999 2015-11-11 586 29300

## 1000 2015-09-17 735 88200

## 1001 2015-01-29 1299 25980

## 1002 2015-09-21 1316 32900

## 1003 2015-10-12 1275 51000

## 1004 2015-05-26 1526 137340

## 1005 2015-12-30 442 88400

## 1006 2015-07-22 1322 99150

## 1007 2015-03-31 557 52915

## 1008 2015-11-12 540 27000

## 1009 2015-06-02 1557 38925

## 1010 2015-11-05 2472 111240

## 1011 2015-03-26 2650 53000

## 1012 2015-09-07 2753 68825

## 1013 2015-11-09 1454 43620

## 1014 2015-11-29 555 27750

## 1015 2015-11-19 436 8720

## 1016 2015-12-30 513 20520

what is max min of the no of subscribers who paid the fee

ud %>%

group\_by(paid) %>%

filter(paid== 'TRUE') %>%

summarise(max\_sub= max(num\_subscribers),min\_sub=min(num\_subscribers)) %>%

arrange(desc(max\_sub, min\_sub))

## `summarise()` ungrouping output (override with `.groups` argument)

## # A tibble: 1 x 3

## paid max\_sub min\_sub

## <lgl> <int> <int>

## 1 TRUE 121584 0

plot the line chart for no of subscribers and price

it show the for each course having less then 2000 subscribers hows price is 150 the more subscribers are having price betwee the 25 and 100

ud %>%

select(num\_subscribers,price) %>%

filter(num\_subscribers< 2000,price< 150) %>%

ggplot(aes(x=num\_subscribers,y=price)) + geom\_line()

Chart

Description automatically generated # show the bar graph of no of subscribers with the subject ## it show the avrage no of subscribers are more in the web development mor sutdents are see forword to learn the web developeing

ud %>%

select(subject, num\_subscribers) %>%

group\_by(subject) %>%

summarise(avg\_s=mean(num\_subscribers)) %>%

ggplot(aes(x=subject,y=avg\_s, color=subject)) +

geom\_bar(stat = 'identity')

## `summarise()` ungrouping output (override with `.groups` argument)

Chart, bar chart

Description automatically generated # show the subject and no of lectures ## it shows that most of the lectures have the less duration towords 0.1

ud %>%

select(content\_duration,num\_lectures) %>%

filter(num\_lectures < 200) %>%

ggplot(aes(x=content\_duration,y=num\_lectures,color=num\_lectures)) + geom\_point()

Chart, scatter chart

Description automatically generated #hestogram showing the income withe frequency

hist(ud$incom,col = 'red')

Chart, bar chart

Description automatically generated #histogram is showing the price of the courses and the price 0 to 20 was highest in frequency

hist(ud$price,col = 'green')

Chart, histogram

Description automatically generated #pie chart is showing the price to the each courses

mytable <- table(ud$price)

lbls <- paste(names(mytable), "\n", mytable,sep = " ")

pie(mytable,labels = lbls,

main = "price of the course")

Chart, pie chart, radar chart

Description automatically generated #In this pie chart shows the no of level are in the udemy coursestheir is high of all level and beginnerLevel

mytable <- table(ud$level)

lbls <- paste(names(mytable), "\n", mytable,sep = " ")

pie(mytable,labels = lbls,

main = "No of Levels")

Chart

Description automatically generated

with same data set udemy

##Linear Regression

#creating the predictor(independent) and response (dependent) variabl to find the simple linear regression # we gave the values to the x1,y1 to know the linear regerassion to keep the formula y=wx+b

x1 <- ud$num\_subscribers

y1 <- ud$num\_reviews

to know the no of records are their in the respectue columns

length(x1)

## [1] 3678

length(y1)

## [1] 3678

ploting point ghrap to show the data in visualizition

Create a scatter plot displaying the sales units versus youtube advertising budget.

Add a smoothed line

plot(x1,y1,col='red',mamain = "simple linear regression",abline(lm(y1~x1)),

xlab = "no of subscribers",

ylab = "no of reviews",xlim =c(0,1500),ylim =c(0,200))

## Warning in plot.window(...): "mamain" is not a graphical parameter

## Warning in plot.xy(xy, type, ...): "mamain" is not a graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "mamain" is not a

## graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "mamain" is not a

## graphical parameter

## Warning in box(...): "mamain" is not a graphical parameter

## Warning in title(...): "mamain" is not a graphical parameter

Chart, scatter chart

Description automatically generated

The graph above suggests a linearly increasing relationship between the no of subscribers and the no of reviews variables. This is a good thing, because, one important assumption of the linear regression is that the relationship between the outcome and predictor variables is linear and additive.

It show the correlation between the x and y varibales

##The has to be positively correlated. One unit increase in x must have corresponding if the (0.5 units, 0.3 units, or 1 unit, 2units) increment in y #Always the correlation should be positive and must have increment on y

cor(x1,y1)

## [1] 0.6499455

so the for the data the X1 and Y1 their is positive correlation with the 0.64 increment

we used the lm function to The simple linear regression tries to find the best line

model\_x <- lm(y1~x1)

model\_x

##

## Call:

## lm(formula = y1 ~ x1)

##

## Coefficients:

## (Intercept) x1

## -48.26750 0.06397

coef(model\_x)

## (Intercept) x1

## -48.26750111 0.06397153

##From the output above: #The estimated regression line equation can be written as follow: no of subscribers = -48.20 + 0.06\*no of reviews #The intercept (b0) is -48.20,the regression beta coefficient for the variable no of reviews (b1), also known as the slope, is 0.06.

plot(num\_subscribers~num\_reviews,ud)

Chart, scatter chart

Description automatically generated # its a visualize repersentation

#we use the lm function to get the best line from the relation of the no of subscribers and the no of reviews

lmm2 <- lm(num\_subscribers~num\_reviews, ud)

It we got the std . error values for the no of subscribers and the no of reviews and the t value is is greater then the y the intercept

summary(lmm2)

##

## Call:

## lm(formula = num\_subscribers ~ num\_reviews, data = ud)

##

## Residuals:

## Min 1Q Median 3Q Max

## -61811 -2147 -1664 -233 209777

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 2165.3102 120.7661 17.93 <2e-16 \*\*\*

## num\_reviews 6.6034 0.1274 51.85 <2e-16 \*\*\*

## ---

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

##

## Residual standard error: 7224 on 3676 degrees of freedom

## Multiple R-squared: 0.4224, Adjusted R-squared: 0.4223

## F-statistic: 2689 on 1 and 3676 DF, p-value: < 2.2e-16

#the lmm2 was the different x coefficent like 13 and 25 i have taken and we got the different values

no.of\_sub <- coef(lmm2)[2] \* x1 + coef(lmm2)[1]

no.of\_sub1 <- coef(lmm2)[2] \* 13 + coef(lmm2)[1]

no.of\_sub2 <- coef(lmm2)[2] \* 25 + coef(lmm2)[1]

no.of\_sub

## [1] 16342.797 20601.986 16521.089 18350.229 10591.241 63055.207

## [7] 12334.537 21427.411 36318.064 7626.317 30454.250 11277.994

## [13] 25983.752 28981.693 4106.708 17194.635 34647.405 19769.959

## [19] 37519.882 55619.785 7507.456 17320.099 69183.156 14817.413

## [25] 18720.019 40372.548 37387.814 28611.903 21163.275 8940.392

## [31] 9858.264 14335.365 60255.368 8966.806 9039.443 54226.469

## [37] 113762.669 77714.741 149137.051 58789.414 163823.000 27330.845

## [43] 35122.850 51618.128 135520.853 68476.593 4588.756 72181.097

## [49] 10069.573 21268.929 12598.673 72194.304 21949.079 43231.818

## [55] 9514.888 57065.928 38959.422 11627.974 8346.087 6510.343

## [61] 55791.473 29813.721 64534.367 23659.358 54602.862 13259.012

## [67] 68859.590 35512.450 17419.150 38668.872 44763.805 84007.776

## [73] 14005.196 23448.049 110361.922 11984.557 21651.926 19974.664

## [79] 28440.215 23230.137 11449.682 30242.942 81128.696 53295.390

## [85] 16256.953 10181.831 27720.445 16336.194 5361.353 9145.098

## [91] 13747.663 10346.915 18627.572 19347.341 15372.098 12162.849

## [97] 11152.529 2568.117 12156.245 11238.374 16052.248 11938.333

## [103] 18779.450 337980.914 15180.600 7692.351 115479.552 13542.958

## [109] 47141.027 15768.302 17471.978 16382.418 129868.348 23144.293

## [115] 12301.520 8946.996 4192.552 16006.024 10848.773 194766.504

## [121] 9138.494 16772.018 21618.909 3954.830 27066.709 22919.778

## [127] 15048.532 28724.161 79583.502 17240.859 9963.919 14394.796

## [133] 32943.730 8696.067 40735.735 9343.199 6199.984 14857.034

## [139] 61694.907 6530.154 9277.166 42115.844 25429.067 376307.013

## [145] 11700.611 21315.153 11654.387 5156.648 18257.781 35558.674

## [151] 42393.187 32078.685 48171.156 6965.978 12466.605 9079.064

## [157] 9065.857 22305.662 21896.252 19486.013 14870.240 27284.621

## [163] 29457.138 11542.130 9561.111 6576.377 29146.778 8986.616

## [169] 7659.334 6635.808 22800.917 9303.579 13027.893 24273.473

## [175] 8365.897 16131.489 16890.879 15722.078 14005.196 27093.123

## [181] 5605.678 16838.052 9409.233 18713.416 8603.619 11396.855

## [187] 9402.630 13410.890 11713.818 20232.196 15372.098 7798.005

## [193] 22596.211 29087.348 29351.483 11205.357 10247.864 27720.445

## [199] 8088.555 10822.360 11000.651 12658.103 10016.746 6794.289

## [205] 9462.061 2977.528 40953.647 4502.912 6965.978 25046.071

## [211] 2521.893 6305.638 6457.516 8537.585 9514.888 7045.218

## [217] 10095.986 18502.107 5427.387 12598.673 6239.604 16923.896

## [223] 17306.893 9389.423 11733.628 23632.944 6173.570 10208.244

## [229] 9640.352 6497.137 24214.043 10558.224 12559.052 11363.838

## [235] 8960.203 7731.971 13589.182 9970.522 9825.247 13589.182

## [241] 10485.587 7916.866 12506.225 21889.648 8590.413 16540.899

## [247] 13866.524 14381.589 13919.352 32587.147 2244.551 2251.154

## [253] 2178.517 19142.636 2218.137 2211.534 3598.247 2310.585

## [259] 3030.355 2198.327 2931.304 2343.602 8187.606 15134.376

## [265] 8986.616 8194.209 15979.610 16956.913 32547.526 21665.133

## [271] 9369.613 11799.662 34224.788 28803.402 2541.704 2336.998

## [277] 2257.758 2488.876 2237.947 2224.741 2766.219 2455.859

## [283] 2865.270 15893.766 3056.768 2370.015 3598.247 6199.984

## [289] 35228.504 9878.074 32890.903 22206.611 5163.251 4311.413

## [295] 3670.884 5876.418 5975.469 71765.083 8187.606 21678.340

## [301] 3419.955 13628.802 9660.162 16039.041 9085.667 13655.216

## [307] 13714.646 10003.539 10505.397 2924.700 2449.256 2528.497

## [313] 2284.171 2257.758 2475.670 3050.165 3175.629 2475.670

## [319] 2442.653 2957.717 2614.341 7738.575 15669.251 9878.074

## [325] 17630.459 17141.808 8550.792 9990.332 6332.052 8557.396

## [331] 9640.352 2918.097 3512.403 12387.364 4866.098 9884.678

## [337] 3809.555 6721.652 11013.858 3974.640 34277.615 14863.637

## [343] 3644.470 6926.357 2502.083 10591.241 20443.505 13622.199

## [349] 61496.806 9554.508 19274.704 9072.460 16950.309 14592.898

## [355] 41330.040 34726.646 22345.282 10769.533 21473.634 11443.079

## [361] 9567.715 13892.938 13014.687 7454.629 8445.138 10604.448

## [367] 9983.729 9528.095 9336.596 26795.970 7514.059 17604.045

## [373] 24636.660 33168.245 120016.084 19941.647 44255.344 17386.133

## [379] 6054.709 2310.585 18607.761 20093.525 12110.022 16672.967

## [385] 4397.257 9270.562 20450.108 12275.106 9666.766 16606.933

## [391] 12790.171 21282.136 8920.582 15292.858 9118.684 31860.773

## [397] 17874.785 8722.480 70431.198 11561.940 25640.376 5909.435

## [403] 9329.993 49439.008 78216.599 2171.914 2231.344 2436.049

## [409] 2218.137 2449.256 2317.188 2224.741 2330.395 2211.534

## [415] 2244.551 2171.914 2356.809 2277.568 3036.958 2997.338

## [421] 2376.619 5334.939 2343.602 3268.077 3030.355 8286.656

## [427] 2409.636 2290.775 2449.256 7124.459 2488.876 2462.463

## [433] 13292.029 30355.199 2984.131 7520.663 8478.155 2997.338

## [439] 2336.998 2766.219 2363.412 3657.677 2508.687 2753.012

## [445] 3928.416 33663.500 3915.210 15675.854 6160.364 5282.112

## [451] 4727.427 2812.443 14632.518 2165.310 2165.310 2165.310

## [457] 2165.310 2165.310 2165.310 2165.310 2165.310 2165.310

## [463] 2165.310 2165.310 2165.310 5433.990 4641.583 13589.182

## [469] 4034.071 3063.372 2317.188 6675.428 6246.208 3406.748

## [475] 8181.002 5546.248 7243.320 4159.535 3149.216 2640.755

## [481] 2383.222 2251.154 2686.978 3083.182 17003.137 2277.568

## [487] 2462.463 2383.222 2521.893 12057.194 17465.374 35690.742

## [493] 435189.478 10102.590 149711.547 16620.140 5011.373 10082.780

## [499] 39705.605 12149.642 14091.040 6576.377 26974.262 7632.920

## [505] 2898.287 2422.843 6213.191 2541.704 3789.745 2713.392

## [511] 2574.721 2370.015 4588.756 2185.120 2185.120 2178.517

## [517] 2185.120 2171.914 2171.914 2178.517 2171.914 2178.517

## [523] 2171.914 2171.914 2165.310 6992.391 2601.134 2502.083

## [529] 5513.231 2224.741 4641.583 2693.582 3169.026 2409.636

## [535] 3446.369 9983.729 6378.276 2587.927 2455.859 7540.473

## [541] 3558.626 7236.717 2356.809 3195.440 16322.987 4648.186

## [547] 3578.436 4846.288 4767.047 5057.597 2535.100 2548.307

## [553] 9079.064 3261.474 6160.364 2416.239 2469.066 3598.247

## [559] 2680.375 2396.429 2693.582 14982.498 11192.150 12195.866

## [565] 15537.183 10175.227 9376.216 35836.016 7903.660 2554.910

## [571] 72623.525 13661.819 131684.281 2191.724 2171.914 2191.724

## [577] 2191.724 2218.137 2218.137 2237.947 2284.171 2270.964

## [583] 2204.931 2191.724 2171.914 3552.023 2191.724 3968.037

## [589] 3730.315 4595.359 2733.202 3512.403 5929.245 3651.074

## [595] 2409.636 2403.032 3604.850 2495.480 3142.612 2653.961

## [601] 3882.193 4139.725 2191.724 2594.531 2832.253 2772.822

## [607] 2667.168 2257.758 2284.171 2303.981 2284.171 2303.981

## [613] 2488.876 3274.680 2270.964 2178.517 4384.051 2297.378

## [619] 2350.205 2237.947 2237.947 4542.532 10016.746 68166.234

## [625] 2825.650 24788.538 6074.519 10234.658 12281.710 40253.687

## [631] 4430.274 5731.143 15576.803 2211.534 2191.724 2303.981

## [637] 2356.809 2495.480 2171.914 2198.327 2204.931 2270.964

## [643] 2627.548 2891.684 2211.534 9996.935 6338.655 10333.709

## [649] 5552.851 29259.036 11997.764 5777.367 4496.308 5513.231

## [655] 9290.372 26379.956 16838.052 2224.741 3651.074 2251.154

## [661] 4628.376 4185.949 2257.758 2502.083 2251.154 10868.584

## [667] 4456.688 3974.640 2224.741 4535.929 41944.156 4245.379

## [673] 4014.260 4813.271 6794.289 2541.704 3519.006 2574.721

## [679] 2918.097 7375.388 5110.424 2277.568 2270.964 2937.907

## [685] 3136.009 2211.534 3796.348 3109.596 6266.018 2204.931

## [691] 2198.327 19822.786 3664.281 31748.515 10941.221 36133.169

## [697] 19565.253 13721.250 24352.714 24781.935 19915.233 9396.027

## [703] 13259.012 15675.854 13384.477 9237.545 9013.030 3637.867

## [709] 6477.326 3684.091 17227.652 33214.469 4582.152 5605.678

## [715] 3829.365 9435.647 3637.867 3056.768 2317.188 2904.890

## [721] 16177.712 3169.026 3928.416 3188.836 2739.805 16336.194

## [727] 3182.233 30216.528 5579.265 19585.064 21407.600 42115.844

## [733] 2270.964 28030.805 9574.318 29622.223 10432.760 35895.447

## [739] 21850.028 10241.261 53341.614 5889.624 15867.353 2462.463

## [745] 2455.859 4199.156 2528.497 6906.547 3525.609 2284.171

## [751] 2733.202 4106.708 2343.602 4641.583 2786.029 15900.370

## [757] 22880.157 3188.836 13602.389 24431.955 16593.726 8821.531

## [763] 3855.779 9911.091 11093.099 2488.876 2984.131 2858.667

## [769] 2937.907 45305.283 2211.534 2363.412 2766.219 2350.205

## [775] 2713.392 6279.225 12895.825 2165.310 2165.310 2165.310

## [781] 2171.914 2165.310 2165.310 2165.310 2165.310 2165.310

## [787] 2165.310 2165.310 2165.310 7032.012 5823.590 7494.249

## [793] 7309.354 13899.541 7718.765 2535.100 14771.189 7282.941

## [799] 10452.570 10043.159 10809.153 6279.225 3987.847 4238.776

## [805] 14989.101 8009.314 3657.677 5209.475 3169.026 8880.962

## [811] 9257.355 5070.804 8623.430 2403.032 2653.961 2680.375

## [817] 2231.344 2422.843 2409.636 16468.262 2680.375 2303.981

## [823] 9336.596 2211.534 3274.680 20661.417 82838.975 43007.302

## [829] 5315.129 10974.238 37869.862 64785.296 8980.013 56550.863

## [835] 17901.198 23844.253 19664.304 12407.174 5764.160 6543.360

## [841] 25402.654 7613.110 2627.548 4522.722 7798.005 4786.858

## [847] 2653.961 10445.966 2753.012 2416.239 2284.171 2845.460

## [853] 2211.534 2852.063 2442.653 5513.231 3756.728 3657.677

## [859] 2495.480 2825.650 2819.046 2819.046 10036.556 3545.420

## [865] 38675.476 2700.185 14870.240 6431.103 5599.075 11674.198

## [871] 5150.044 3340.714 2303.981 2244.551 3545.420 5500.024

## [877] 2270.964 2330.395 3677.487 2204.931 2171.914 2231.344

## [883] 2171.914 2389.826 2165.310 2165.310 2165.310 2165.310

## [889] 2165.310 2165.310 2165.310 2165.310 2165.310 2165.310

## [895] 2165.310 2165.310 5196.268 3921.813 2852.063 12129.832

## [901] 3565.230 5216.078 2759.616 3175.629 9131.891 3202.043

## [907] 2845.460 9211.132 2548.307 2653.961 4397.257 2343.602

## [913] 2667.168 2343.602 2614.341 2904.890 2640.755 4377.447

## [919] 2310.585 2436.049 2171.914 2270.964 2185.120 2191.724

## [925] 2178.517 2244.551 2231.344 2244.551 2198.327 2171.914

## [931] 2178.517 2224.741 2442.653 2891.684 4938.736 3525.609

## [937] 3248.267 2620.944 2350.205 2759.616 2251.154 2370.015

## [943] 2251.154 16157.902 3063.372 7428.215 5486.817 9759.213

## [949] 11429.872 8214.019 6305.638 3274.680 19030.379 2957.717

## [955] 7117.856 3598.247 2865.270 4786.858 2455.859 2363.412

## [961] 2792.633 2528.497 2786.029 5982.072 4760.444 2931.304

## [967] 14632.518 4885.909 2429.446 3631.264 7652.731 5367.956

## [973] 3697.298 3056.768 2568.117 2568.117 7936.677 2310.585

## [979] 39124.507 3888.796 2713.392 3169.026 3327.508 2218.137

## [985] 4324.620 3908.606 2264.361 2852.063 2634.151 2336.998

## [991] 2237.947 10710.102 2376.619 4232.172 6358.465 10822.360

## [997] 4067.088 2805.839 2515.290 9442.250 2541.704 6748.066

## [1003] 3069.975 2244.551 2284.171 3287.887 2951.114 15755.095

## [1009] 2396.429 2429.446 2251.154 2191.724 2634.151 2634.151

## [1015] 2204.931 2171.914 2198.327 2171.914 2191.724 2231.344

## [1021] 2204.931 2178.517 2178.517 2178.517 2178.517 2204.931

## [1027] 2178.517 3525.609 4232.172 3439.765 2601.134 3948.227

## [1033] 3083.182 2673.772 3651.074 2317.188 34363.460 3776.538

## [1039] 10604.448 2370.015 2218.137 2429.446 2224.741 2462.463

## [1045] 2251.154 2191.724 2297.378 2224.741 2356.809 2204.931

## [1051] 2211.534 7837.626 41673.417 13212.788 10644.068 4767.047

## [1057] 6715.049 6450.913 3400.145 14038.213 5235.888 7533.870

## [1063] 4318.017 2336.998 2336.998 2350.205 2970.924 3149.216

## [1069] 3519.006 2237.947 2185.120 2878.477 2218.137 2224.741

## [1075] 2270.964 2237.947 2244.551 2237.947 2178.517 2224.741

## [1081] 2264.361 2211.534 2343.602 2198.327 2185.120 2198.327

## [1087] 2198.327 3036.958 2904.890 4047.277 2766.219 2376.619

## [1093] 20258.610 2554.910 2270.964 2310.585 2264.361 9158.304

## [1099] 3400.145 2165.310 2165.310 2165.310 2165.310 9356.406

## [1105] 7071.632 11159.133 4839.685 9878.074 2270.964 27522.343

## [1111] 49597.490 5354.749 3301.094 3855.779 12347.744 2587.927

## [1117] 4701.013 22067.940 5163.251 4225.569 4245.379 6186.777

## [1123] 3532.213 4800.064 9924.298 5750.953 12955.256 8854.548

## [1129] 4271.793 9594.128 18548.331 8808.325 9059.254 10353.519

## [1135] 5493.421 2264.361 4529.325 2693.582 3043.562 3532.213

## [1141] 4978.356 2462.463 10617.655 3102.992 3406.748 6906.547

## [1147] 4100.105 2779.426 8068.744 4496.308 7639.524 10056.366

## [1153] 4377.447 5467.007 3215.250 7045.218 2739.805 3386.938

## [1159] 7058.425 5968.865 9072.460 5374.560 2508.687 2865.270

## [1165] 2416.239 2376.619 3294.491 2686.978 4786.858 2726.599

## [1171] 13364.666 3492.592 10320.502 3069.975 4701.013 2845.460

## [1177] 4667.997 12552.449 3155.819 2482.273 7322.561 8451.741

## [1183] 6206.587 14176.884 5803.780 7368.785 4859.495 8398.914

## [1189] 4298.206 2832.253 8663.050 2753.012 3017.148 3809.555

## [1195] 2660.565 17036.154 5216.078 13523.148 4740.634 30540.094

## [1201] 9270.562 64019.302 60942.121 30130.684 97518.320 83651.193

## [1207] 15550.390 4681.203 2620.944 2303.981 103038.758 178753.274

## [1213] 37334.987 241789.273 104517.918 50251.226 73977.220 56286.728

## [1219] 11145.926 47451.386 123027.231 13978.782 4100.105 6536.757

## [1225] 10611.051 9296.976 2957.717 9329.993 5117.027 4621.773

## [1231] 6926.357 7025.408 2918.097 4351.034 2165.310 2165.310

## [1237] 2165.310 2165.310 2165.310 2165.310 2165.310 2165.310

## [1243] 3598.247 4370.844 7560.283 6371.672 17736.113 26736.539

## [1249] 9746.007 18601.158 13932.558 48223.984 64659.831 15662.648

## [1255] 40379.151 169079.301 48019.278 41970.569 35869.033 18515.314

## [1261] 21975.492 3386.938 4925.529 5011.373 2317.188 2997.338

## [1267] 24148.009 6919.754 7448.025 11918.523 12413.778 9270.562

## [1273] 8874.359 8233.829 10247.864 7276.337 6886.737 13840.111

## [1279] 19036.982 4978.356 22688.659 3987.847 4740.634 46764.634

## [1285] 35750.172 9732.800 317880.183 12493.018 7045.218 8960.203

## [1291] 19763.355 9290.372 11674.198 11416.665 19558.650 9072.460

## [1297] 5500.024 7626.317 60182.730 3835.969 14929.671 12096.815

## [1303] 10961.031 9759.213 9138.494 11079.892 12638.293 7586.697

## [1309] 2535.100 9759.213 12446.795 3789.745 22655.642 9363.010

## [1315] 10320.502 8412.121 12070.401 11753.438 2323.792 2185.120

## [1321] 2297.378 2383.222 2805.839 2218.137 2191.724 2231.344

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## [2827] 12816.585 1777969.846 13919.352 51281.355 141411.080 9805.437

## [2833] 8187.606 15629.631 111299.603 8768.704 177425.991 5249.095

## [2839] 8418.724 67089.880 16587.123 21004.793 111715.617 12902.429

## [2845] 61965.647 57105.549 29278.846 37321.780 39164.127 29787.307

## [2851] 4152.932 27806.289 3723.711 13774.077 10525.207 8240.433

## [2857] 35208.694 7976.297 4423.671 3519.006 5645.299 12182.659

## [2863] 3023.751 8887.565 34059.703 4819.875 7150.873 9343.199

## [2869] 3287.887 9125.287 3783.142 4496.308 5229.285 4133.122

## [2875] 16943.706 13813.697 24484.782 8966.806 11449.682 33412.571

## [2881] 13549.561 12849.602 35552.070 12479.812 12380.761 19505.823

## [2887] 75905.411 5242.492 11112.909 35611.501 13807.094 44512.876

## [2893] 37810.431 48501.326 45153.405 14698.552 23949.907 7560.283

## [2899] 14038.213 26518.627 12803.378 78592.993 18984.155 15788.112

## [2905] 149784.184 58802.621 72649.938 7335.768 86563.289 38378.323

## [2911] 54226.469 105997.078 22675.452 43720.469 59687.476 55434.890

## [2917] 63788.183 23765.012 11192.150 35690.742 45140.199 33115.418

## [2923] 79808.017 4146.328 27152.553 10148.814 11594.957 6893.340

## [2929] 85123.749 12189.262 10360.122 4674.600 4773.651 9884.678

## [2935] 9521.491 40055.585 46064.674 12763.758 34178.564 33485.208

## [2941] 12202.469 25944.132 28796.798 114891.850 92684.636 5004.770

## [2947] 19618.081 13595.785 10835.567 7282.941 16976.723 20318.040

## [2953] 15451.339 9296.976 27462.913 15840.939 20357.661 10195.037

## [2959] 17445.564 60077.076 13813.697 20899.139 13093.927 20133.145

## [2965] 9772.420 104471.694 12479.812 66786.124 14738.172 24332.904

## [2971] 16692.777 38193.428 16256.953 33036.177 11627.974 13615.595

## [2977] 25019.657 29080.744 5909.435 13542.958 10630.861 15715.475

## [2983] 14540.071 9554.508 8920.582 26578.058 145340.100 15207.013

## [2989] 5816.987 19664.304 21737.770 12889.222 12994.876 12909.032

## [2995] 14150.470 8841.342 18211.558 37282.160 48507.930 12955.256

## [3001] 25871.495 28776.988 28710.954 19565.253 49782.385 12043.988

## [3007] 31530.603 11476.096 45932.606 14764.586 10406.346 32455.079

## [3013] 17689.890 27905.340 23197.120 5843.401 4859.495 13410.890

## [3019] 118081.289 50819.117 6629.205 26148.837 72002.806 79048.627

## [3025] 94348.691 35743.569 9627.145 98614.484 21783.994 20747.261

## [3031] 11112.909 17584.235 1065503.249 15708.871 9224.338 11667.594

## [3037] 15028.722 7718.765 8352.690 6015.089 5975.469 63999.492

## [3043] 35525.657 6748.066 5539.645 8352.690 12803.378 2845.460

## [3049] 6589.584 12770.361 3882.193 2970.924 7956.487 10188.434

## [3055] 24108.389 80692.872 101916.181 8603.619 36918.973 6100.933

## [3061] 51803.023 145148.601 61780.752 50865.341 36351.081 45404.334

## [3067] 187885.768 63900.441 96329.709 53143.512 16309.780 87170.802

## [3073] 87230.232 83836.088 59119.584 19604.874 9112.081 94084.555

## [3079] 51136.080 14196.694 8834.738 11575.147 48481.516 53572.733

## [3085] 31266.468 6140.553 13470.321 14672.138 23679.168 51353.992

## [3091] 5717.936 10558.224 11456.286 17425.754 8781.911 19103.016

## [3097] 3552.023 9996.935 11548.733 8491.362 12400.571 10809.153

## [3103] 3822.762 6939.564 74974.333 10868.584 27878.927 83340.833

## [3109] 11720.421 5381.163 62322.230 12195.866 8425.328 15523.976

## [3115] 14434.416 16983.326 26062.993 154036.770 20278.420 10280.881

## [3121] 26604.472 6853.720 45668.470 50574.792 31636.258 14533.467

## [3127] 11330.821 10696.895 9739.403 9488.474 15385.305 7949.883

## [3133] 9996.935 8590.413 4667.997 16540.899 9184.718 10809.153

## [3139] 51618.128 62276.006 23091.466 51697.369 15154.186 191643.099

## [3145] 8167.795 33993.669 164443.719 62315.626 126427.979 9567.715

## [3151] 98251.297 40464.996 34304.029 8808.325 32646.577 61384.548

## [3157] 48798.479 22457.540 20034.094 13404.287 24748.918 49247.510

## [3163] 8227.226 12202.469 5209.475 2931.304 3532.213 4364.240

## [3169] 4179.345 6417.896 4905.719 8280.053 22754.693 30493.871

## [3175] 8497.965 367544.309 17174.825 119600.070 172526.273 21084.034

## [3181] 4450.084 34898.334 29424.121 195961.718 218069.882 25296.999

## [3187] 17709.700 6034.899 15035.325 14216.504 17326.703 5797.177

## [3193] 5982.072 53051.065 11007.255 46804.254 9402.630 51076.650

## [3199] 40537.633 16329.590 80296.668 37024.627 37374.607 36179.393

## [3205] 489383.533 340635.478 192871.330 116628.542 224547.811 129016.510

## [3211] 16791.828 10894.997 25178.138 16593.726 18634.175 15973.007

## [3217] 13899.541 19155.843 3670.884 395985.127 13424.097 15041.929

## [3223] 74439.458 19373.755 118853.886 17174.825 185746.268 116384.217

## [3229] 266763.309 45265.663 805032.371 119718.931 758333.169 225280.788

## [3235] 142454.417 54365.140 7903.660 4100.105 242013.789 20390.678

## [3241] 5612.282 12915.636 83624.779 44671.358 20635.003 4364.240

## [3247] 394149.384 527874.717 61358.134 292562.770 88075.467 386535.670

## [3253] 62467.505 147426.772 337716.778 29490.155 138538.604 44506.273

## [3259] 18436.073 44915.683 17934.215 12030.781 11826.076 9145.098

## [3265] 9092.271 2885.080 15854.146 9534.698 9594.128 7461.232

## [3271] 31279.674 6695.238 9785.627 8009.314 18257.781 6893.340

## [3277] 14493.847 2766.219 6034.899 6133.950 2700.185 8887.565

## [3283] 11727.025 10723.309 10743.119 13846.714 134715.239 6133.950

## [3289] 17227.652 555113.717 140110.212 323420.430 15008.912 124301.686

## [3295] 10043.159 34554.958 13384.477 80164.601 7091.442 3413.352

## [3301] 11535.526 10333.709 13410.890 14374.986 37803.828 31286.278

## [3307] 12426.985 31873.980 15325.874 4965.149 27139.346 12407.174

## [3313] 8464.948 50396.500 104266.989 48111.726 8530.982 25746.030

## [3319] 18152.127 145386.324 38761.320 54477.398 48752.255 7230.113

## [3325] 27033.692 469507.317 18653.985 7441.422 276060.888 7890.453

## [3331] 16012.627 38701.889 5691.523 3466.179 5684.919 9006.426

## [3337] 31900.394 58901.672 3373.731 8128.175 10327.105 4179.345

## [3343] 12360.951 8900.772 4311.413 23474.463 6516.947 18858.690

## [3349] 5797.177 8980.013 9706.386 13826.904 8187.606 10782.739

## [3355] 6477.326 24689.487 78322.254 24597.040 54101.004 6886.737

## [3361] 8689.463 31253.261 14949.481 79200.505 4549.135 203773.534

## [3367] 2746.409 2528.497 5427.387 10710.102 8610.223 12638.293

## [3373] 12400.571 10148.814 7778.195 37962.309 3849.176 6833.910

## [3379] 47438.180 8814.928 87692.470 17346.513 2290.775 13628.802

## [3385] 16659.760 312934.240 32336.218 26300.715 105937.648 5982.072

## [3391] 13701.440 3466.179 29886.358 5731.143 8385.707 18475.693

## [3397] 5321.733 19056.792 16547.502 7844.229 21235.912 22147.181

## [3403] 16455.055 73970.617 14942.878 14520.260 53599.146 70800.988

## [3409] 119434.985 33293.710 23355.602 95392.027 80395.719 77041.195

## [3415] 9798.834 12294.917 9442.250 7335.768 6305.638 8048.934

## [3421] 51585.111 7949.883 10320.502 9712.990 5136.837 11687.404

## [3427] 4978.356 20747.261 32838.075 88867.874 28136.459 16672.967

## [3433] 10868.584 12420.381 15418.322 12334.537 13093.927 82733.321

## [3439] 10644.068 7903.660 4780.254 49326.750 11502.509 67096.484

## [3445] 6153.760 6688.635 5790.573 10221.451 12651.500 57442.322

## [3451] 19136.033 42558.272 37612.329 16857.862 15939.990 13602.389

## [3457] 46744.823 36687.854 11918.523 12902.429 32072.082 23652.754

## [3463] 17135.204 117480.380 158461.044 37169.902 8986.616 47788.160

## [3469] 28843.022 5770.763 18403.056 10644.068 9574.318 88115.087

## [3475] 9415.837 5341.543 4648.186 8095.158 11363.838 5031.183

## [3481] 4767.047 3902.003 9171.511 10828.963 7210.303 4073.691

## [3487] 28585.490 35822.810 23249.947 74875.282 25224.362 25666.790

## [3493] 20549.159 38450.960 21394.394 66132.388 24907.399 85559.573

## [3499] 13120.341 10782.739 6464.120 14883.447 4780.254 9178.115

## [3505] 5982.072 33432.381 30599.525 74254.563 13397.683 75330.916

## [3511] 6365.069 11925.127 4555.739 57217.806 6800.893 19981.267

## [3517] 3334.111 6880.134 9178.115 12413.778 2838.856 6213.191

## [3523] 16375.814 9184.718 22913.174 12506.225 17392.737 6345.259

## [3529] 21044.414 4139.725 8781.911 6332.052 11317.614 17716.303

## [3535] 46685.393 14401.399 3829.365 10762.929 13113.737 101823.733

## [3541] 3254.870 30777.817 8610.223 10591.241 11911.920 37500.072

## [3547] 18026.663 44440.239 3637.867 6483.930 10498.793 3835.969

## [3553] 13919.352 10525.207 17940.819 11859.093 7698.954 19657.701

## [3559] 41785.674 14308.952 72748.989 51353.992 29615.619 24537.609

## [3565] 11033.668 24610.247 18739.829 12314.727 42670.529 63940.061

## [3571] 8927.186 4311.413 3261.474 3505.799 9653.559 3591.643

## [3577] 2330.395 9402.630 7249.924 4965.149 7150.873 6470.723

## [3583] 33841.791 20542.556 58043.231 36034.118 36978.404 20549.159

## [3589] 22543.384 41838.502 111028.864 15873.956 11099.702 27060.106

## [3595] 6932.961 11436.475 13311.839 3578.436 7368.785 9613.939

## [3601] 6180.174 4535.929 12281.710 7388.595 4773.651 4291.603

## [3607] 3162.423 3538.816 4707.617 6563.171 3730.315 3750.125

## [3613] 35274.728 22193.404 5189.665 13912.748 4370.844 3631.264

## [3619] 4951.942 3664.281 2495.480 3446.369 5189.665 2568.117

## [3625] 4238.776 6034.899 7249.924 7018.805 10743.119 7388.595

## [3631] 4978.356 7421.612 10855.377 57732.871 9329.993 7560.283

## [3637] 10584.638 12242.089 68925.624 14262.728 8405.518 10564.827

## [3643] 5084.010 43865.744 10894.997 5843.401 5731.143 4324.620

## [3649] 4529.325 7467.836 12446.795 14989.101 4007.657 2389.826

## [3655] 11542.130 14130.660 18488.900 12235.486 19664.304 20344.454

## [3661] 21876.441 17749.320 8425.328 4753.841 8398.914 484939.448

## [3667] 7963.090 11766.645 50488.948 5830.194 5440.594 5044.390

## [3673] 4687.807 9032.840 4185.949 5552.851 4146.328 8114.968

no.of\_sub1

## num\_reviews

## 2251.154

no.of\_sub2

## num\_reviews

## 2330.395

its summery of the

summary(no.of\_sub1)

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 2251 2251 2251 2251 2251 2251

#glmm-generalized linear model#its elaborate and better function to execute

glmm2 <- glm(num\_subscribers~num\_reviews, ud, family = poisson)

it shows the correlation between no of subscribers and no of reviews

coef(glmm2)

## (Intercept) num\_reviews

## 7.9640430385 0.0001844994

from the glm the intercept is incresed and also shows the better values

it is the summary of the glmm2

summary(glmm2)

##

## Call:

## glm(formula = num\_subscribers ~ num\_reviews, family = poisson,

## data = ud)

##

## Deviance Residuals:

## Min 1Q Median 3Q Max

## -587.91 -69.47 -43.43 -7.76 1036.80

##

## Coefficients:

## Estimate Std. Error z value Pr(>|z|)

## (Intercept) 7.964e+00 3.053e-04 26086 <2e-16 \*\*\*

## num\_reviews 1.845e-04 4.603e-08 4008 <2e-16 \*\*\*

## ---

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

##

## (Dispersion parameter for poisson family taken to be 1)

##

## Null deviance: 31416042 on 3677 degrees of freedom

## Residual deviance: 25390068 on 3676 degrees of freedom

## AIC: 25419500

##

## Number of Fisher Scoring iterations: 6

In same way like LM function we use GLM functions gives the best result compared to LM function. #We assigned different values like 13,25 to check the function

here we got the bmi value is incresed from tthe lm function

glmm.no.of\_sub1 <- exp(coef(glmm2)[2]\*13 + coef(glmm2)[1])

glmm.no.of\_sub2 <- exp(coef(glmm2)[2]\*25 + coef(glmm2)[1])

glmm.no.of\_sub1

## num\_reviews

## 2882.582

glmm.no.of\_sub2

## num\_reviews

## 2888.971

##multi leaner regression we have taken lm function with multi leaner regression and with 3 variables

model\_x1 <- lm(num\_subscribers~num\_reviews + num\_lectures,data = ud)

summary(model\_x1)

##

## Call:

## lm(formula = num\_subscribers ~ num\_reviews + num\_lectures, data = ud)

##

## Residuals:

## Min 1Q Median 3Q Max

## -61814 -2147 -1662 -234 209773

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 2166.91207 152.31349 14.227 <2e-16 \*\*\*

## num\_reviews 6.60394 0.13131 50.294 <2e-16 \*\*\*

## num\_lectures -0.04209 2.43791 -0.017 0.986

## ---

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

##

## Residual standard error: 7225 on 3675 degrees of freedom

## Multiple R-squared: 0.4224, Adjusted R-squared: 0.4221

## F-statistic: 1344 on 2 and 3675 DF, p-value: < 2.2e-16

if the adjusted R\_squared is incresing and the p\_value more then 0.0001 we take that model as best

model\_x2 <- lm(num\_subscribers~num\_reviews + num\_lectures + price,data = ud)

summary(model\_x2)

##

## Call:

## lm(formula = num\_subscribers ~ num\_reviews + num\_lectures + price,

## data = ud)

##

## Residuals:

## Min 1Q Median 3Q Max

## -62003 -2185 -1589 -216 209419

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 2369.0709 184.1784 12.863 <2e-16 \*\*\*

## num\_reviews 6.6133 0.1313 50.351 <2e-16 \*\*\*

## num\_lectures 1.5297 2.5667 0.596 0.5512

## price -4.0373 2.0697 -1.951 0.0512 .

## ---

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

##

## Residual standard error: 7222 on 3674 degrees of freedom

## Multiple R-squared: 0.423, Adjusted R-squared: 0.4226

## F-statistic: 897.9 on 3 and 3674 DF, p-value: < 2.2e-16

when we compare to befor one this best with the adjusted r\_ square

model\_x3 <- lm(price~num\_subscribers + num\_lectures, data = ud)

summary(model\_x3)

##

## Call:

## lm(formula = price ~ num\_subscribers + num\_lectures, data = ud)

##

## Residuals:

## Min 1Q Median 3Q Max

## -193.23 -36.83 -20.03 24.98 147.97

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 5.003e+01 1.231e+00 40.648 <2e-16 \*\*\*

## num\_subscribers -8.636e-06 1.012e-04 -0.085 0.932

## num\_lectures 4.000e-01 1.909e-02 20.952 <2e-16 \*\*\*

## ---

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

##

## Residual standard error: 57.6 on 3675 degrees of freedom

## Multiple R-squared: 0.109, Adjusted R-squared: 0.1085

## F-statistic: 224.8 on 2 and 3675 DF, p-value: < 2.2e-16

ud %>%

ggplot(aes(x=num\_lectures,y=content\_duration))+geom\_point()

Chart, scatter chart

Description automatically generated ## this is ghrap repersantation

Kmeans and clustering

ud1 <- ud %>%

select(num\_lectures,content\_duration)

#we cluester the no of lectures and content duration

udclus <- kmeans(ud1,centers = 5)

#this view of the cluester we have done

attributes(udclus)

## $names

## [1] "cluster" "centers" "totss" "withinss" "tot.withinss"

## [6] "betweenss" "size" "iter" "ifault"

##

## $class

## [1] "kmeans"

udclus$centers

## num\_lectures content\_duration

## 1 186.13750 18.556250

## 2 96.15934 9.679991

## 3 372.82500 35.650000

## 4 17.26325 1.826704

## 5 46.32034 4.767826

udclus$cluster

## [1] 5 1 5 5 4 4 4 4 5 4 2 4 4 4 5 4 4 5 4 4 4 5 4 4 5 5 5 4 2 5 5 5 2 4 4 5 5

## [38] 5 2 2 1 2 2 4 1 5 5 5 5 5 5 2 4 4 4 5 5 4 4 4 5 2 5 2 5 2 5 4 4 5 4 4 4 4

## [75] 5 4 5 4 5 5 5 4 2 5 4 4 4 5 4 4 5 4 2 5 4 4 4 4 5 4 4 4 4 4 4 4 4 4 5 4 4

## [112] 4 4 4 3 4 4 4 5 4 5 4 3 5 5 5 4 4 4 4 4 4 4 4 4 5 4 4 4 4 5 4 5 4 5 5 5 5

## [149] 4 4 4 4 5 4 4 5 4 4 5 4 3 5 5 4 5 4 4 4 5 5 4 4 5 4 4 2 4 5 5 4 4 4 4 2 4

## [186] 4 4 4 4 4 5 5 4 4 4 4 4 2 4 4 4 5 4 5 5 5 4 5 4 4 4 4 2 4 4 5 4 2 4 4 5 4

## [223] 4 4 4 5 4 5 4 4 4 4 5 4 4 5 4 4 4 5 5 5 4 4 4 5 4 4 4 4 5 4 4 4 4 4 5 5 5

## [260] 4 5 1 5 4 4 5 5 5 4 1 4 4 4 5 4 5 4 4 4 4 4 5 2 4 4 4 4 4 4 4 4 4 4 5 5 4

## [297] 2 4 2 4 5 4 4 4 4 4 4 4 4 4 5 4 2 4 4 2 4 4 4 4 4 5 4 4 5 5 5 5 4 4 3 4 4

## [334] 5 5 4 5 4 1 4 4 4 4 4 4 5 4 4 4 4 5 4 4 2 4 4 3 5 4 4 4 4 4 4 5 4 5 4 4 4

## [371] 5 4 5 4 4 4 4 4 2 4 4 4 4 2 5 1 5 4 4 2 4 4 4 4 4 4 5 4 5 5 4 5 5 4 4 4 4

## [408] 5 4 4 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 5 5 4 4 4 4 4 4 5 4 5 4 4 4 5

## [445] 4 4 4 2 4 4 5 5 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 5 4 4 5 4 4 4 4 4 4 5 4 4

## [482] 4 5 4 4 4 2 5 4 4 4 4 4 5 4 4 4 2 4 4 1 4 4 4 4 4 1 4 4 4 4 5 4 4 4 4 4 4

## [519] 4 4 5 4 4 4 4 4 4 4 3 4 1 5 4 4 4 4 5 4 4 4 4 5 5 5 4 4 2 4 4 4 4 4 4 4 4

## [556] 4 4 4 4 5 4 3 2 5 4 4 4 4 4 4 4 2 4 4 4 4 4 4 4 5 5 4 4 4 4 4 4 4 4 5 2 4

## [593] 4 4 4 4 5 4 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 4 4 4 5 4 5 4 4 5 4

## [630] 4 5 4 4 4 4 4 5 4 5 4 4 4 4 4 4 4 4 5 4 4 4 5 2 5 4 3 4 2 4 4 4 4 4 4 4 4

## [667] 4 4 4 5 4 5 5 4 4 4 4 4 5 2 5 5 4 4 4 4 4 5 2 4 4 4 4 5 5 4 4 4 5 5 5 5 4

## [704] 4 4 5 4 4 4 4 4 4 5 4 4 5 4 4 4 4 4 2 4 4 2 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4

## [741] 4 5 4 4 4 4 4 4 4 4 5 4 4 4 4 4 5 4 4 4 4 5 5 4 4 4 4 4 5 4 4 4 4 4 4 4 1

## [778] 4 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 4 4 4 5 4 4 4 4 5 4 4 4 5 4 4 4 4 4 4

## [815] 4 4 4 5 4 4 5 4 4 4 2 4 4 4 5 5 4 4 5 4 4 5 4 5 5 2 4 5 4 4 5 4 4 5 4 4 4

## [852] 4 4 4 4 4 4 4 4 4 4 4 5 5 4 5 4 4 4 4 3 4 5 4 5 4 4 4 5 4 4 4 5 4 4 4 4 4

## [889] 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 4 5 4 4 5 4 4 4 4 2 4 5 5 5 4 4 5 4 4 4 4 2

## [926] 4 4 4 5 4 5 4 4 4 4 5 4 4 4 4 4 4 2 5 4 4 3 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4

## [963] 4 5 5 4 4 2 4 5 4 4 4 4 4 4 2 5 4 5 4 4 4 4 4 2 5 4 4 5 4 5 4 4 4 4 4 4 4

## [1000] 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 2 5 4 4 4 4 5 4 4 4 4 4 5 4 4 4 4 4 4 5 4

## [1037] 5 4 4 5 5 4 4 5 4 5 4 4 4 4 4 4 4 5 5 2 4 4 5 4 4 5 4 4 4 4 5 5 4 2 4 5 4

## [1074] 4 4 5 4 4 4 4 4 4 4 5 5 4 4 4 5 4 5 5 4 4 4 5 4 4 5 4 5 4 4 4 4 4 4 4 4 5

## [1111] 4 5 4 5 4 5 5 4 5 5 4 5 4 4 2 4 5 5 4 4 4 4 4 4 5 5 4 4 1 4 4 5 4 4 5 4 5

## [1148] 5 1 4 5 4 4 5 4 4 2 4 4 4 4 4 4 4 4 4 4 5 5 4 4 4 4 4 4 4 5 5 4 4 4 5 2 4

## [1185] 5 4 4 1 4 4 5 4 4 4 4 2 2 4 4 2 4 4 2 4 4 5 4 4 4 4 5 5 1 5 5 5 5 2 2 5 5

## [1222] 5 4 4 5 5 4 4 4 4 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 4 4 4 5 4 4 4 4 4

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Chart, scatter chart

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it is ghrap repersentation with clustring

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this is with the kmeans.ani with different data repersentation

new data

inputing the data

setwd('C:/Users/C5GM/Desktop')

inc <- read.csv('insurance\_1.csv')

inc

## age sex bmi children smoker region charges\_.000.

## 1 19 female 27.900 0 yes southwest 17

## 2 18 male 33.770 1 no southeast 2

## 3 28 male 33.000 3 no southeast 4

## 4 33 male 22.705 0 no northwest 22

## 5 32 male 28.880 0 no northwest 4

## 6 31 female 25.740 0 no southeast 4

## 7 46 female 33.440 1 no southeast 8

## 8 37 female 27.740 3 no northwest 7

## 9 37 male 29.830 2 no northeast 6

## 10 60 female 25.840 0 no northwest 29

## 11 25 male 26.220 0 no northeast 3

## 12 62 female 26.290 0 yes southeast 28

## 13 23 male 34.400 0 no southwest 2

## 14 56 female 39.820 0 no southeast 11

## 15 27 male 42.130 0 yes southeast 40

## 16 19 male 24.600 1 no southwest 2

## 17 52 female 30.780 1 no northeast 11

## 18 23 male 23.845 0 no northeast 2

## 19 56 male 40.300 0 no southwest 11

## 20 30 male 35.300 0 yes southwest 37

## 21 60 female 36.005 0 no northeast 13

## 22 30 female 32.400 1 no southwest 4

## 23 18 male 34.100 0 no southeast 1

## 24 34 female 31.920 1 yes northeast 38

## 25 37 male 28.025 2 no northwest 6

## 26 59 female 27.720 3 no southeast 14

## 27 63 female 23.085 0 no northeast 14

## 28 55 female 32.775 2 no northwest 12

## 29 23 male 17.385 1 no northwest 3

## 30 31 male 36.300 2 yes southwest 39

## 31 22 male 35.600 0 yes southwest 36

## 32 18 female 26.315 0 no northeast 2

## 33 19 female 28.600 5 no southwest 5

## 34 63 male 28.310 0 no northwest 14

## 35 28 male 36.400 1 yes southwest 51

## 36 19 male 20.425 0 no northwest 2

## 37 62 female 32.965 3 no northwest 16

## 38 26 male 20.800 0 no southwest 2

## 39 35 male 36.670 1 yes northeast 40

## 40 60 male 39.900 0 yes southwest 48

## 41 24 female 26.600 0 no northeast 3

## 42 31 female 36.630 2 no southeast 5

## 43 41 male 21.780 1 no southeast 6

## 44 37 female 30.800 2 no southeast 6

## 45 38 male 37.050 1 no northeast 6

## 46 55 male 37.300 0 no southwest 21

## 47 18 female 38.665 2 no northeast 3

## 48 28 female 34.770 0 no northwest 4

## 49 60 female 24.530 0 no southeast 13

## 50 36 male 35.200 1 yes southeast 39

## 51 18 female 35.625 0 no northeast 2

## 52 21 female 33.630 2 no northwest 4

## 53 48 male 28.000 1 yes southwest 24

## 54 36 male 34.430 0 yes southeast 38

## 55 40 female 28.690 3 no northwest 8

## 56 58 male 36.955 2 yes northwest 47

## 57 58 female 31.825 2 no northeast 14

## 58 18 male 31.680 2 yes southeast 34

## 59 53 female 22.880 1 yes southeast 23

## 60 34 female 37.335 2 no northwest 6

## 61 43 male 27.360 3 no northeast 9

## 62 25 male 33.660 4 no southeast 5

## 63 64 male 24.700 1 no northwest 30

## 64 28 female 25.935 1 no northwest 4

## 65 20 female 22.420 0 yes northwest 15

## 66 19 female 28.900 0 no southwest 2

## 67 61 female 39.100 2 no southwest 14

## 68 40 male 26.315 1 no northwest 6

## 69 40 female 36.190 0 no southeast 6

## 70 28 male 23.980 3 yes southeast 18

## 71 27 female 24.750 0 yes southeast 17

## 72 31 male 28.500 5 no northeast 7

## 73 53 female 28.100 3 no southwest 12

## 74 58 male 32.010 1 no southeast 12

## 75 44 male 27.400 2 no southwest 8

## 76 57 male 34.010 0 no northwest 11

## 77 29 female 29.590 1 no southeast 4

## 78 21 male 35.530 0 no southeast 2

## 79 22 female 39.805 0 no northeast 3

## 80 41 female 32.965 0 no northwest 7

## 81 31 male 26.885 1 no northeast 4

## 82 45 female 38.285 0 no northeast 8

## 83 22 male 37.620 1 yes southeast 37

## 84 48 female 41.230 4 no northwest 11

## 85 37 female 34.800 2 yes southwest 40

## 86 45 male 22.895 2 yes northwest 21

## 87 57 female 31.160 0 yes northwest 44

## 88 56 female 27.200 0 no southwest 11

## 89 46 female 27.740 0 no northwest 8

## 90 55 female 26.980 0 no northwest 11

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## 94 35 male 34.770 2 no northwest 6

## 95 64 female 31.300 2 yes southwest 47

## 96 28 female 37.620 1 no southeast 4

## 97 54 female 30.800 3 no southwest 12

## 98 55 male 38.280 0 no southeast 10

## 99 56 male 19.950 0 yes northeast 22

## 100 38 male 19.300 0 yes southwest 16

## 101 41 female 31.600 0 no southwest 6

## 102 30 male 25.460 0 no northeast 4

## 103 18 female 30.115 0 no northeast 21

## 104 61 female 29.920 3 yes southeast 31

## 105 34 female 27.500 1 no southwest 5

## 106 20 male 28.025 1 yes northwest 18

## 107 19 female 28.400 1 no southwest 2

## 108 26 male 30.875 2 no northwest 4

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## 110 63 male 35.090 0 yes southeast 47

## 111 54 male 33.630 1 no northwest 11

## 112 55 female 29.700 2 no southwest 12

## 113 37 male 30.800 0 no southwest 5

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## 115 52 male 32.205 3 no northeast 11

## 116 60 male 28.595 0 no northeast 30

## 117 58 male 49.060 0 no southeast 11

## 118 29 female 27.940 1 yes southeast 19

## 119 49 female 27.170 0 no southeast 9

## 120 37 female 23.370 2 no northwest 7

## 121 44 male 37.100 2 no southwest 8

## 122 18 male 23.750 0 no northeast 2

## 123 20 female 28.975 0 no northwest 2

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## 125 47 female 33.915 3 no northwest 10

## 126 26 female 28.785 0 no northeast 3

## 127 19 female 28.300 0 yes southwest 17

## 128 52 female 37.400 0 no southwest 10

## 129 32 female 17.765 2 yes northwest 33

## 130 38 male 34.700 2 no southwest 6

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## 132 61 female 22.040 0 no northeast 14

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## 136 22 female 28.050 0 no southeast 2

## 137 19 male 34.100 0 no southwest 1

## 138 22 male 25.175 0 no northwest 2

## 139 54 female 31.900 3 no southeast 27

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## 142 26 male 32.490 1 no northeast 3

## 143 34 male 25.300 2 yes southeast 19

## 144 29 male 29.735 2 no northwest 18

## 145 30 male 28.690 3 yes northwest 21

## 146 29 female 38.830 3 no southeast 5

## 147 46 male 30.495 3 yes northwest 41

## 148 51 female 37.730 1 no southeast 10

## 149 53 female 37.430 1 no northwest 11

## 150 19 male 28.400 1 no southwest 2

## 151 35 male 24.130 1 no northwest 5

## 152 48 male 29.700 0 no southeast 8

## 153 32 female 37.145 3 no northeast 6

## 154 42 female 23.370 0 yes northeast 20

## 155 40 female 25.460 1 no northeast 7

## 156 44 male 39.520 0 no northwest 7

## 157 48 male 24.420 0 yes southeast 21

## 158 18 male 25.175 0 yes northeast 16

## 159 30 male 35.530 0 yes southeast 37

## 160 50 female 27.830 3 no southeast 20

## 161 42 female 26.600 0 yes northwest 21

## 162 18 female 36.850 0 yes southeast 36

## 163 54 male 39.600 1 no southwest 10

## 164 32 female 29.800 2 no southwest 5

## 165 37 male 29.640 0 no northwest 5

## 166 47 male 28.215 4 no northeast 10

## 167 20 female 37.000 5 no southwest 5

## 168 32 female 33.155 3 no northwest 6

## 169 19 female 31.825 1 no northwest 3

## 170 27 male 18.905 3 no northeast 5

## 171 63 male 41.470 0 no southeast 13

## 172 49 male 30.300 0 no southwest 8

## 173 18 male 15.960 0 no northeast 2

## 174 35 female 34.800 1 no southwest 5

## 175 24 female 33.345 0 no northwest 3

## 176 63 female 37.700 0 yes southwest 49

## 177 38 male 27.835 2 no northwest 6

## 178 54 male 29.200 1 no southwest 10

## 179 46 female 28.900 2 no southwest 9

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## 182 18 female 38.280 0 no southeast 2

## 183 22 male 19.950 3 no northeast 4

## 184 44 female 26.410 0 no northwest 7

## 185 44 male 30.690 2 no southeast 8

## 186 36 male 41.895 3 yes northeast 44

## 187 26 female 29.920 2 no southeast 4

## 188 30 female 30.900 3 no southwest 5

## 189 41 female 32.200 1 no southwest 7

## 190 29 female 32.110 2 no northwest 5

## 191 61 male 31.570 0 no southeast 13

## 192 36 female 26.200 0 no southwest 5

## 193 25 male 25.740 0 no southeast 2

## 194 56 female 26.600 1 no northwest 12

## 195 18 male 34.430 0 no southeast 1

## 196 19 male 30.590 0 no northwest 2

## 197 39 female 32.800 0 no southwest 6

## 198 45 female 28.600 2 no southeast 9

## 199 51 female 18.050 0 no northwest 10

## 200 64 female 39.330 0 no northeast 15

## 201 19 female 32.110 0 no northwest 2

## 202 48 female 32.230 1 no southeast 9

## 203 60 female 24.035 0 no northwest 13

## 204 27 female 36.080 0 yes southeast 37

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## 209 63 female 31.800 0 no southwest 14

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## 218 27 male 23.100 0 no southeast 2

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## 220 24 female 23.210 0 no southeast 25

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## 222 53 female 33.250 0 no northeast 11

## 223 32 male 30.800 3 no southwest 5

## 224 19 male 34.800 0 yes southwest 35

## 225 42 male 24.640 0 yes southeast 20

## 226 55 male 33.880 3 no southeast 12

## 227 28 male 38.060 0 no southeast 3

## 228 58 female 41.910 0 no southeast 24

## 229 41 female 31.635 1 no northeast 7

## 230 47 male 25.460 2 no northeast 9

## 231 42 female 36.195 1 no northwest 7

## 232 59 female 27.830 3 no southeast 14

## 233 19 female 17.800 0 no southwest 2

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## 235 39 male 24.510 2 no northwest 7

## 236 40 female 22.220 2 yes southeast 19

## 237 18 female 26.730 0 no southeast 2

## 238 31 male 38.390 2 no southeast 4

## 239 19 male 29.070 0 yes northwest 17

## 240 44 male 38.060 1 no southeast 7

## 241 23 female 36.670 2 yes northeast 39

## 242 33 female 22.135 1 no northeast 5

## 243 55 female 26.800 1 no southwest 35

## 244 40 male 35.300 3 no southwest 7

## 245 63 female 27.740 0 yes northeast 30

## 246 54 male 30.020 0 no northwest 24

## 247 60 female 38.060 0 no southeast 13

## 248 24 male 35.860 0 no southeast 2

## 249 19 male 20.900 1 no southwest 2

## 250 29 male 28.975 1 no northeast 4

## 251 18 male 17.290 2 yes northeast 13

## 252 63 female 32.200 2 yes southwest 47

## 253 54 male 34.210 2 yes southeast 44

## 254 27 male 30.300 3 no southwest 4

## 255 50 male 31.825 0 yes northeast 41

## 256 55 female 25.365 3 no northeast 13

## 257 56 male 33.630 0 yes northwest 44

## 258 38 female 40.150 0 no southeast 5

## 259 51 male 24.415 4 no northwest 12

## 260 19 male 31.920 0 yes northwest 34

## 261 58 female 25.200 0 no southwest 12

## 262 20 female 26.840 1 yes southeast 17

## 263 52 male 24.320 3 yes northeast 25

## 264 19 male 36.955 0 yes northwest 36

## 265 53 female 38.060 3 no southeast 20

## 266 46 male 42.350 3 yes southeast 46

## 267 40 male 19.800 1 yes southeast 17

## 268 59 female 32.395 3 no northeast 15

## 269 45 male 30.200 1 no southwest 7

## 270 49 male 25.840 1 no northeast 9

## 271 18 male 29.370 1 no southeast 2

## 272 50 male 34.200 2 yes southwest 43

## 273 41 male 37.050 2 no northwest 7

## 274 50 male 27.455 1 no northeast 10

## 275 25 male 27.550 0 no northwest 3

## 276 47 female 26.600 2 no northeast 10

## 277 19 male 20.615 2 no northwest 3

## 278 22 female 24.300 0 no southwest 2

## 279 59 male 31.790 2 no southeast 13

## 280 51 female 21.560 1 no southeast 10

## 281 40 female 28.120 1 yes northeast 22

## 282 54 male 40.565 3 yes northeast 49

## 283 30 male 27.645 1 no northeast 4

## 284 55 female 32.395 1 no northeast 12

## 285 52 female 31.200 0 no southwest 10

## 286 46 male 26.620 1 no southeast 8

## 287 46 female 48.070 2 no northeast 9

## 288 63 female 26.220 0 no northwest 14

## 289 59 female 36.765 1 yes northeast 48

## 290 52 male 26.400 3 no southeast 26

## 291 28 female 33.400 0 no southwest 3

## 292 29 male 29.640 1 no northeast 20

## 293 25 male 45.540 2 yes southeast 42

## 294 22 female 28.820 0 no southeast 2

## 295 25 male 26.800 3 no southwest 4

## 296 18 male 22.990 0 no northeast 2

## 297 19 male 27.700 0 yes southwest 16

## 298 47 male 25.410 1 yes southeast 22

## 299 31 male 34.390 3 yes northwest 39

## 300 48 female 28.880 1 no northwest 9

## 301 36 male 27.550 3 no northeast 7

## 302 53 female 22.610 3 yes northeast 25

## 303 56 female 37.510 2 no southeast 12

## 304 28 female 33.000 2 no southeast 4

## 305 57 female 38.000 2 no southwest 13

## 306 29 male 33.345 2 no northwest 19

## 307 28 female 27.500 2 no southwest 20

## 308 30 female 33.330 1 no southeast 4

## 309 58 male 34.865 0 no northeast 12

## 310 41 female 33.060 2 no northwest 8

## 311 50 male 26.600 0 no southwest 8

## 312 19 female 24.700 0 no southwest 2

## 313 43 male 35.970 3 yes southeast 42

## 314 49 male 35.860 0 no southeast 8

## 315 27 female 31.400 0 yes southwest 35

## 316 52 male 33.250 0 no northeast 10

## 317 50 male 32.205 0 no northwest 9

## 318 54 male 32.775 0 no northeast 10

## 319 44 female 27.645 0 no northwest 7

## 320 32 male 37.335 1 no northeast 5

## 321 34 male 25.270 1 no northwest 5

## 322 26 female 29.640 4 no northeast 25

## 323 34 male 30.800 0 yes southwest 35

## 324 57 male 40.945 0 no northeast 12

## 325 29 male 27.200 0 no southwest 3

## 326 40 male 34.105 1 no northeast 7

## 327 27 female 23.210 1 no southeast 4

## 328 45 male 36.480 2 yes northwest 43

## 329 64 female 33.800 1 yes southwest 48

## 330 52 male 36.700 0 no southwest 9

## 331 61 female 36.385 1 yes northeast 49

## 332 52 male 27.360 0 yes northwest 24

## 333 61 female 31.160 0 no northwest 13

## 334 56 female 28.785 0 no northeast 12

## 335 43 female 35.720 2 no northeast 19

## 336 64 male 34.500 0 no southwest 14

## 337 60 male 25.740 0 no southeast 12

## 338 62 male 27.550 1 no northwest 14

## 339 50 male 32.300 1 yes northeast 42

## 340 46 female 27.720 1 no southeast 8

## 341 24 female 27.600 0 no southwest 19

## 342 62 male 30.020 0 no northwest 13

## 343 60 female 27.550 0 no northeast 13

## 344 63 male 36.765 0 no northeast 14

## 345 49 female 41.470 4 no southeast 11

## 346 34 female 29.260 3 no southeast 6

## 347 33 male 35.750 2 no southeast 5

## 348 46 male 33.345 1 no northeast 8

## 349 36 female 29.920 1 no southeast 5

## 350 19 male 27.835 0 no northwest 2

## 351 57 female 23.180 0 no northwest 12

## 352 50 female 25.600 0 no southwest 9

## 353 30 female 27.700 0 no southwest 4

## 354 33 male 35.245 0 no northeast 12

## 355 18 female 38.280 0 no southeast 14

## 356 46 male 27.600 0 no southwest 25

## 357 46 male 43.890 3 no southeast 9

## 358 47 male 29.830 3 no northwest 10

## 359 23 male 41.910 0 no southeast 2

## 360 18 female 20.790 0 no southeast 2

## 361 48 female 32.300 2 no northeast 10

## 362 35 male 30.500 1 no southwest 5

## 363 19 female 21.700 0 yes southwest 14

## 364 21 female 26.400 1 no southwest 3

## 365 21 female 21.890 2 no southeast 3

## 366 49 female 30.780 1 no northeast 10

## 367 56 female 32.300 3 no northeast 13

## 368 42 female 24.985 2 no northwest 8

## 369 44 male 32.015 2 no northwest 8

## 370 18 male 30.400 3 no northeast 3

## 371 61 female 21.090 0 no northwest 13

## 372 57 female 22.230 0 no northeast 12

## 373 42 female 33.155 1 no northeast 8

## 374 26 male 32.900 2 yes southwest 36

## 375 20 male 33.330 0 no southeast 1

## 376 23 female 28.310 0 yes northwest 18

## 377 39 female 24.890 3 yes northeast 22

## 378 24 male 40.150 0 yes southeast 38

## 379 64 female 30.115 3 no northwest 16

## 380 62 male 31.460 1 no southeast 27

## 381 27 female 17.955 2 yes northeast 15

## 382 55 male 30.685 0 yes northeast 42

## 383 55 male 33.000 0 no southeast 21

## 384 35 female 43.340 2 no southeast 6

## 385 44 male 22.135 2 no northeast 8

## 386 19 male 34.400 0 no southwest 1

## 387 58 female 39.050 0 no southeast 12

## 388 50 male 25.365 2 no northwest 30

## 389 26 female 22.610 0 no northwest 3

## 390 24 female 30.210 3 no northwest 5

## 391 48 male 35.625 4 no northeast 11

## 392 19 female 37.430 0 no northwest 2

## 393 48 male 31.445 1 no northeast 9

## 394 49 male 31.350 1 no northeast 9

## 395 46 female 32.300 2 no northeast 9

## 396 46 male 19.855 0 no northwest 8

## 397 43 female 34.400 3 no southwest 9

## 398 21 male 31.020 0 no southeast 17

## 399 64 male 25.600 2 no southwest 15

## 400 18 female 38.170 0 no southeast 2

## 401 51 female 20.600 0 no southwest 9

## 402 47 male 47.520 1 no southeast 8

## 403 64 female 32.965 0 no northwest 15

## 404 49 male 32.300 3 no northwest 10

## 405 31 male 20.400 0 no southwest 3

## 406 52 female 38.380 2 no northeast 11

## 407 33 female 24.310 0 no southeast 4

## 408 47 female 23.600 1 no southwest 9

## 409 38 male 21.120 3 no southeast 7

## 410 32 male 30.030 1 no southeast 4

## 411 19 male 17.480 0 no northwest 2

## 412 44 female 20.235 1 yes northeast 20

## 413 26 female 17.195 2 yes northeast 14

## 414 25 male 23.900 5 no southwest 5

## 415 19 female 35.150 0 no northwest 2

## 416 43 female 35.640 1 no southeast 7

## 417 52 male 34.100 0 no southeast 9

## 418 36 female 22.600 2 yes southwest 19

## 419 64 male 39.160 1 no southeast 14

## 420 63 female 26.980 0 yes northwest 29

## 421 64 male 33.880 0 yes southeast 47

## 422 61 male 35.860 0 yes southeast 47

## 423 40 male 32.775 1 yes northeast 39

## 424 25 male 30.590 0 no northeast 3

## 425 48 male 30.200 2 no southwest 9

## 426 45 male 24.310 5 no southeast 10

## 427 38 female 27.265 1 no northeast 7

## 428 18 female 29.165 0 no northeast 7

## 429 21 female 16.815 1 no northeast 3

## 430 27 female 30.400 3 no northwest 19

## 431 19 male 33.100 0 no southwest 23

## 432 29 female 20.235 2 no northwest 5

## 433 42 male 26.900 0 no southwest 6

## 434 60 female 30.500 0 no southwest 13

## 435 31 male 28.595 1 no northwest 4

## 436 60 male 33.110 3 no southeast 14

## 437 22 male 31.730 0 no northeast 2

## 438 35 male 28.900 3 no southwest 6

## 439 52 female 46.750 5 no southeast 13

## 440 26 male 29.450 0 no northeast 3

## 441 31 female 32.680 1 no northwest 5

## 442 33 female 33.500 0 yes southwest 37

## 443 18 male 43.010 0 no southeast 1

## 444 59 female 36.520 1 no southeast 28

## 445 56 male 26.695 1 yes northwest 26

## 446 45 female 33.100 0 no southwest 7

## 447 60 male 29.640 0 no northeast 13

## 448 56 female 25.650 0 no northwest 11

## 449 40 female 29.600 0 no southwest 6

## 450 35 male 38.600 1 no southwest 5

## 451 39 male 29.600 4 no southwest 8

## 452 30 male 24.130 1 no northwest 4

## 453 24 male 23.400 0 no southwest 2

## 454 20 male 29.735 0 no northwest 2

## 455 32 male 46.530 2 no southeast 5

## 456 59 male 37.400 0 no southwest 22

## 457 55 female 30.140 2 no southeast 12

## 458 57 female 30.495 0 no northwest 12

## 459 56 male 39.600 0 no southwest 11

## 460 40 female 33.000 3 no southeast 8

## 461 49 female 36.630 3 no southeast 10

## 462 42 male 30.000 0 yes southwest 22

## 463 62 female 38.095 2 no northeast 15

## 464 56 male 25.935 0 no northeast 11

## 465 19 male 25.175 0 no northwest 2

## 466 30 female 28.380 1 yes southeast 20

## 467 60 female 28.700 1 no southwest 13

## 468 56 female 33.820 2 no northwest 13

## 469 28 female 24.320 1 no northeast 23

## 470 18 female 24.090 1 no southeast 2

## 471 27 male 32.670 0 no southeast 2

## 472 18 female 30.115 0 no northeast 2

## 473 19 female 29.800 0 no southwest 2

## 474 47 female 33.345 0 no northeast 21

## 475 54 male 25.100 3 yes southwest 25

## 476 61 male 28.310 1 yes northwest 29

## 477 24 male 28.500 0 yes northeast 35

## 478 25 male 35.625 0 no northwest 3

## 479 21 male 36.850 0 no southeast 2

## 480 23 male 32.560 0 no southeast 2

## 481 63 male 41.325 3 no northwest 16

## 482 49 male 37.510 2 no southeast 9

## 483 18 female 31.350 0 no southeast 2

## 484 51 female 39.500 1 no southwest 10

## 485 48 male 34.300 3 no southwest 10

## 486 31 female 31.065 0 no northeast 4

## 487 54 female 21.470 3 no northwest 12

## 488 19 male 28.700 0 no southwest 1

## 489 44 female 38.060 0 yes southeast 49

## 490 53 male 31.160 1 no northwest 10

## 491 19 female 32.900 0 no southwest 2

## 492 61 female 25.080 0 no southeast 25

## 493 18 female 25.080 0 no northeast 2

## 494 61 male 43.400 0 no southwest 13

## 495 21 male 25.700 4 yes southwest 18

## 496 20 male 27.930 0 no northeast 2

## 497 31 female 23.600 2 no southwest 5

## 498 45 male 28.700 2 no southwest 8

## 499 44 female 23.980 2 no southeast 8

## 500 62 female 39.200 0 no southwest 13

## 501 29 male 34.400 0 yes southwest 36

## 502 43 male 26.030 0 no northeast 7

## 503 51 male 23.210 1 yes southeast 22

## 504 19 male 30.250 0 yes southeast 33

## 505 38 female 28.930 1 no southeast 6

## 506 37 male 30.875 3 no northwest 7

## 507 22 male 31.350 1 no northwest 3

## 508 21 male 23.750 2 no northwest 3

## 509 24 female 25.270 0 no northeast 3

## 510 57 female 28.700 0 no southwest 11

## 511 56 male 32.110 1 no northeast 12

## 512 27 male 33.660 0 no southeast 2

## 513 51 male 22.420 0 no northeast 9

## 514 19 male 30.400 0 no southwest 1

## 515 39 male 28.300 1 yes southwest 21

## 516 58 male 35.700 0 no southwest 11

## 517 20 male 35.310 1 no southeast 28

## 518 45 male 30.495 2 no northwest 8

## 519 35 female 31.000 1 no southwest 5

## 520 31 male 30.875 0 no northeast 4

## 521 50 female 27.360 0 no northeast 26

## 522 32 female 44.220 0 no southeast 4

## 523 51 female 33.915 0 no northeast 10

## 524 38 female 37.730 0 no southeast 5

## 525 42 male 26.070 1 yes southeast 38

## 526 18 female 33.880 0 no southeast 11

## 527 19 female 30.590 2 no northwest 24

## 528 51 female 25.800 1 no southwest 10

## 529 46 male 39.425 1 no northeast 8

## 530 18 male 25.460 0 no northeast 2

## 531 57 male 42.130 1 yes southeast 49

## 532 62 female 31.730 0 no northeast 14

## 533 59 male 29.700 2 no southeast 13

## 534 37 male 36.190 0 no southeast 19

## 535 64 male 40.480 0 no southeast 14

## 536 38 male 28.025 1 no northeast 6

## 537 33 female 38.900 3 no southwest 6

## 538 46 female 30.200 2 no southwest 9

## 539 46 female 28.050 1 no southeast 8

## 540 53 male 31.350 0 no southeast 27

## 541 34 female 38.000 3 no southwest 6

## 542 20 female 31.790 2 no southeast 3

## 543 63 female 36.300 0 no southeast 14

## 544 54 female 47.410 0 yes southeast 64

## 545 54 male 30.210 0 no northwest 10

## 546 49 male 25.840 2 yes northwest 24

## 547 28 male 35.435 0 no northeast 3

## 548 54 female 46.700 2 no southwest 12

## 549 25 female 28.595 0 no northeast 3

## 550 43 female 46.200 0 yes southeast 46

## 551 63 male 30.800 0 no southwest 13

## 552 32 female 28.930 0 no southeast 4

## 553 62 male 21.400 0 no southwest 13

## 554 52 female 31.730 2 no northwest 11

## 555 25 female 41.325 0 no northeast 18

## 556 28 male 23.800 2 no southwest 4

## 557 46 male 33.440 1 no northeast 8

## 558 34 male 34.210 0 no southeast 4

## 559 35 female 34.105 3 yes northwest 40

## 560 19 male 35.530 0 no northwest 2

## 561 46 female 19.950 2 no northwest 9

## 562 54 female 32.680 0 no northeast 11

## 563 27 male 30.500 0 no southwest 2

## 564 50 male 44.770 1 no southeast 9

## 565 18 female 32.120 2 no southeast 3

## 566 19 female 30.495 0 no northwest 2

## 567 38 female 40.565 1 no northwest 6

## 568 41 male 30.590 2 no northwest 7

## 569 49 female 31.900 5 no southwest 12

## 570 48 male 40.565 2 yes northwest 46

## 571 31 female 29.100 0 no southwest 4

## 572 18 female 37.290 1 no southeast 2

## 573 30 female 43.120 2 no southeast 5

## 574 62 female 36.860 1 no northeast 32

## 575 57 female 34.295 2 no northeast 13

## 576 58 female 27.170 0 no northwest 12

## 577 22 male 26.840 0 no southeast 2

## 578 31 female 38.095 1 yes northeast 59

## 579 52 male 30.200 1 no southwest 10

## 580 25 female 23.465 0 no northeast 3

## 581 59 male 25.460 1 no northeast 13

## 582 19 male 30.590 0 no northwest 2

## 583 39 male 45.430 2 no southeast 6

## 584 32 female 23.650 1 no southeast 18

## 585 19 male 20.700 0 no southwest 1

## 586 33 female 28.270 1 no southeast 5

## 587 21 male 20.235 3 no northeast 4

## 588 34 female 30.210 1 yes northwest 44

## 589 61 female 35.910 0 no northeast 14

## 590 38 female 30.690 1 no southeast 6

## 591 58 female 29.000 0 no southwest 12

## 592 47 male 19.570 1 no northwest 8

## 593 20 male 31.130 2 no southeast 3

## 594 21 female 21.850 1 yes northeast 15

## 595 41 male 40.260 0 no southeast 6

## 596 46 female 33.725 1 no northeast 9

## 597 42 female 29.480 2 no southeast 8

## 598 34 female 33.250 1 no northeast 6

## 599 43 male 32.600 2 no southwest 7

## 600 52 female 37.525 2 no northwest 33

## 601 18 female 39.160 0 no southeast 2

## 602 51 male 31.635 0 no northwest 9

## 603 56 female 25.300 0 no southwest 11

## 604 64 female 39.050 3 no southeast 16

## 605 19 female 28.310 0 yes northwest 17

## 606 51 female 34.100 0 no southeast 9

## 607 27 female 25.175 0 no northeast 4

## 608 59 female 23.655 0 yes northwest 26

## 609 28 male 26.980 2 no northeast 4

## 610 30 male 37.800 2 yes southwest 39

## 611 47 female 29.370 1 no southeast 9

## 612 38 female 34.800 2 no southwest 7

## 613 18 female 33.155 0 no northeast 2

## 614 34 female 19.000 3 no northeast 7

## 615 20 female 33.000 0 no southeast 2

## 616 47 female 36.630 1 yes southeast 43

## 617 56 female 28.595 0 no northeast 12

## 618 49 male 25.600 2 yes southwest 23

## 619 19 female 33.110 0 yes southeast 34

## 620 55 female 37.100 0 no southwest 11

## 621 30 male 31.400 1 no southwest 4

## 622 37 male 34.100 4 yes southwest 40

## 623 49 female 21.300 1 no southwest 9

## 624 18 male 33.535 0 yes northeast 35

## 625 59 male 28.785 0 no northwest 12

## 626 29 female 26.030 0 no northwest 4

## 627 36 male 28.880 3 no northeast 7

## 628 33 male 42.460 1 no southeast 11

## 629 58 male 38.000 0 no southwest 11

## 630 44 female 38.950 0 yes northwest 43

## 631 53 male 36.100 1 no southwest 10

## 632 24 male 29.300 0 no southwest 2

## 633 29 female 35.530 0 no southeast 3

## 634 40 male 22.705 2 no northeast 7

## 635 51 male 39.700 1 no southwest 9

## 636 64 male 38.190 0 no northeast 14

## 637 19 female 24.510 1 no northwest 3

## 638 35 female 38.095 2 no northeast 25

## 639 39 male 26.410 0 yes northeast 20

## 640 56 male 33.660 4 no southeast 13

## 641 33 male 42.400 5 no southwest 7

## 642 42 male 28.310 3 yes northwest 33

## 643 61 male 33.915 0 no northeast 13

## 644 23 female 34.960 3 no northwest 4

## 645 43 male 35.310 2 no southeast 19

## 646 48 male 30.780 3 no northeast 10

## 647 39 male 26.220 1 no northwest 6

## 648 40 female 23.370 3 no northeast 8

## 649 18 male 28.500 0 no northeast 2

## 650 58 female 32.965 0 no northeast 12

## 651 49 female 42.680 2 no southeast 10

## 652 53 female 39.600 1 no southeast 11

## 653 48 female 31.130 0 no southeast 8

## 654 45 female 36.300 2 no southeast 9

## 655 59 female 35.200 0 no southeast 12

## 656 52 female 25.300 2 yes southeast 25

## 657 26 female 42.400 1 no southwest 3

## 658 27 male 33.155 2 no northwest 4

## 659 48 female 35.910 1 no northeast 26

## 660 57 female 28.785 4 no northeast 14

## 661 37 male 46.530 3 no southeast 6

## 662 57 female 23.980 1 no southeast 22

## 663 32 female 31.540 1 no northeast 5

## 664 18 male 33.660 0 no southeast 1

## 665 64 female 22.990 0 yes southeast 27

## 666 43 male 38.060 2 yes southeast 43

## 667 49 male 28.700 1 no southwest 9

## 668 40 female 32.775 2 yes northwest 40

## 669 62 male 32.015 0 yes northeast 46

## 670 40 female 29.810 1 no southeast 7

## 671 30 male 31.570 3 no southeast 5

## 672 29 female 31.160 0 no northeast 4

## 673 36 male 29.700 0 no southeast 4

## 674 41 female 31.020 0 no southeast 6

## 675 44 female 43.890 2 yes southeast 46

## 676 45 male 21.375 0 no northwest 7

## 677 55 female 40.810 3 no southeast 12

## 678 60 male 31.350 3 yes northwest 46

## 679 56 male 36.100 3 no southwest 12

## 680 49 female 23.180 2 no northwest 10

## 681 21 female 17.400 1 no southwest 3

## 682 19 male 20.300 0 no southwest 1

## 683 39 male 35.300 2 yes southwest 40

## 684 53 male 24.320 0 no northwest 10

## 685 33 female 18.500 1 no southwest 5

## 686 53 male 26.410 2 no northeast 11

## 687 42 male 26.125 2 no northeast 8

## 688 40 male 41.690 0 no southeast 5

## 689 47 female 24.100 1 no southwest 26

## 690 27 male 31.130 1 yes southeast 35

## 691 21 male 27.360 0 no northeast 2

## 692 47 male 36.200 1 no southwest 8

## 693 20 male 32.395 1 no northwest 2

## 694 24 male 23.655 0 no northwest 2

## 695 27 female 34.800 1 no southwest 4

## 696 26 female 40.185 0 no northwest 3

## 697 53 female 32.300 2 no northeast 29

## 698 41 male 35.750 1 yes southeast 40

## 699 56 male 33.725 0 no northwest 11

## 700 23 female 39.270 2 no southeast 4

## 701 21 female 34.870 0 no southeast 2

## 702 50 female 44.745 0 no northeast 10

## 703 53 male 41.470 0 no southeast 10

## 704 34 female 26.410 1 no northwest 5

## 705 47 female 29.545 1 no northwest 9

## 706 33 female 32.900 2 no southwest 5

## 707 51 female 38.060 0 yes southeast 44

## 708 49 male 28.690 3 no northwest 10

## 709 31 female 30.495 3 no northeast 6

## 710 36 female 27.740 0 no northeast 5

## 711 18 male 35.200 1 no southeast 2

## 712 50 female 23.540 2 no southeast 10

## 713 43 female 30.685 2 no northwest 8

## 714 20 male 40.470 0 no northeast 2

## 715 24 female 22.600 0 no southwest 2

## 716 60 male 28.900 0 no southwest 12

## 717 49 female 22.610 1 no northwest 10

## 718 60 male 24.320 1 no northwest 13

## 719 51 female 36.670 2 no northwest 11

## 720 58 female 33.440 0 no northwest 12

## 721 51 female 40.660 0 no northeast 10

## 722 53 male 36.600 3 no southwest 11

## 723 62 male 37.400 0 no southwest 13

## 724 19 male 35.400 0 no southwest 1

## 725 50 female 27.075 1 no northeast 10

## 726 30 female 39.050 3 yes southeast 41

## 727 41 male 28.405 1 no northwest 7

## 728 29 female 21.755 1 yes northeast 17

## 729 18 female 40.280 0 no northeast 2

## 730 41 female 36.080 1 no southeast 7

## 731 35 male 24.420 3 yes southeast 19

## 732 53 male 21.400 1 no southwest 10

## 733 24 female 30.100 3 no southwest 4

## 734 48 female 27.265 1 no northeast 9

## 735 59 female 32.100 3 no southwest 14

## 736 49 female 34.770 1 no northwest 10

## 737 37 female 38.390 0 yes southeast 40

## 738 26 male 23.700 2 no southwest 3

## 739 23 male 31.730 3 yes northeast 36

## 740 29 male 35.500 2 yes southwest 45

## 741 45 male 24.035 2 no northeast 9

## 742 27 male 29.150 0 yes southeast 18

## 743 53 male 34.105 0 yes northeast 43

## 744 31 female 26.620 0 no southeast 4

## 745 50 male 26.410 0 no northwest 9

## 746 50 female 30.115 1 no northwest 10

## 747 34 male 27.000 2 no southwest 12

## 748 19 male 21.755 0 no northwest 2

## 749 47 female 36.000 1 no southwest 9

## 750 28 male 30.875 0 no northwest 3

## 751 37 female 26.400 0 yes southeast 20

## 752 21 male 28.975 0 no northwest 2

## 753 64 male 37.905 0 no northwest 14

## 754 58 female 22.770 0 no southeast 12

## 755 24 male 33.630 4 no northeast 17

## 756 31 male 27.645 2 no northeast 5

## 757 39 female 22.800 3 no northeast 8

## 758 47 female 27.830 0 yes southeast 23

## 759 30 male 37.430 3 no northeast 5

## 760 18 male 38.170 0 yes southeast 36

## 761 22 female 34.580 2 no northeast 4

## 762 23 male 35.200 1 no southwest 2

## 763 33 male 27.100 1 yes southwest 19

## 764 27 male 26.030 0 no northeast 3

## 765 45 female 25.175 2 no northeast 9

## 766 57 female 31.825 0 no northwest 12

## 767 47 male 32.300 1 no southwest 8

## 768 42 female 29.000 1 no southwest 7

## 769 64 female 39.700 0 no southwest 14

## 770 38 female 19.475 2 no northwest 7

## 771 61 male 36.100 3 no southwest 28

## 772 53 female 26.700 2 no southwest 11

## 773 44 female 36.480 0 no northeast 13

## 774 19 female 28.880 0 yes northwest 18

## 775 41 male 34.200 2 no northwest 7

## 776 51 male 33.330 3 no southeast 11

## 777 40 male 32.300 2 no northwest 7

## 778 45 male 39.805 0 no northeast 7

## 779 35 male 34.320 3 no southeast 6

## 780 53 male 28.880 0 no northwest 10

## 781 30 male 24.400 3 yes southwest 18

## 782 18 male 41.140 0 no southeast 1

## 783 51 male 35.970 1 no southeast 9

## 784 50 female 27.600 1 yes southwest 25

## 785 31 female 29.260 1 no southeast 4

## 786 35 female 27.700 3 no southwest 6

## 787 60 male 36.955 0 no northeast 13

## 788 21 male 36.860 0 no northwest 2

## 789 29 male 22.515 3 no northeast 5

## 790 62 female 29.920 0 no southeast 13

## 791 39 female 41.800 0 no southeast 6

## 792 19 male 27.600 0 no southwest 1

## 793 22 female 23.180 0 no northeast 3

## 794 53 male 20.900 0 yes southeast 21

## 795 39 female 31.920 2 no northwest 7

## 796 27 male 28.500 0 yes northwest 18

## 797 30 male 44.220 2 no southeast 4

## 798 30 female 22.895 1 no northeast 5

## 799 58 female 33.100 0 no southwest 12

## 800 33 male 24.795 0 yes northeast 18

## 801 42 female 26.180 1 no southeast 7

## 802 64 female 35.970 0 no southeast 14

## 803 21 male 22.300 1 no southwest 2

## 804 18 female 42.240 0 yes southeast 39

## 805 23 male 26.510 0 no southeast 2

## 806 45 female 35.815 0 no northwest 8

## 807 40 female 41.420 1 no northwest 28

## 808 19 female 36.575 0 no northwest 2

## 809 18 male 30.140 0 no southeast 1

## 810 25 male 25.840 1 no northeast 3

## 811 46 female 30.800 3 no southwest 9

## 812 33 female 42.940 3 no northwest 6

## 813 54 male 21.010 2 no southeast 11

## 814 28 male 22.515 2 no northeast 4

## 815 36 male 34.430 2 no southeast 6

## 816 20 female 31.460 0 no southeast 2

## 817 24 female 24.225 0 no northwest 3

## 818 23 male 37.100 3 no southwest 4

## 819 47 female 26.125 1 yes northeast 23

## 820 33 female 35.530 0 yes northwest 55

## 821 45 male 33.700 1 no southwest 7

## 822 26 male 17.670 0 no northwest 3

## 823 18 female 31.130 0 no southeast 2

## 824 44 female 29.810 2 no southeast 8

## 825 60 male 24.320 0 no northwest 13

## 826 64 female 31.825 2 no northeast 16

## 827 56 male 31.790 2 yes southeast 44

## 828 36 male 28.025 1 yes northeast 21

## 829 41 male 30.780 3 yes northeast 40

## 830 39 male 21.850 1 no northwest 6

## 831 63 male 33.100 0 no southwest 13

## 832 36 female 25.840 0 no northwest 5

## 833 28 female 23.845 2 no northwest 5

## 834 58 male 34.390 0 no northwest 12

## 835 36 male 33.820 1 no northwest 5

## 836 42 male 35.970 2 no southeast 7

## 837 36 male 31.500 0 no southwest 4

## 838 56 female 28.310 0 no northeast 12

## 839 35 female 23.465 2 no northeast 6

## 840 59 female 31.350 0 no northwest 13

## 841 21 male 31.100 0 no southwest 2

## 842 59 male 24.700 0 no northeast 12

## 843 23 female 32.780 2 yes southeast 36

## 844 57 female 29.810 0 yes southeast 28

## 845 53 male 30.495 0 no northeast 10

## 846 60 female 32.450 0 yes southeast 45

## 847 51 female 34.200 1 no southwest 10

## 848 23 male 50.380 1 no southeast 2

## 849 27 female 24.100 0 no southwest 3

## 850 55 male 32.775 0 no northwest 11

## 851 37 female 30.780 0 yes northeast 37

## 852 61 male 32.300 2 no northwest 14

## 853 46 female 35.530 0 yes northeast 42

## 854 53 female 23.750 2 no northeast 12

## 855 49 female 23.845 3 yes northeast 24

## 856 20 female 29.600 0 no southwest 2

## 857 48 female 33.110 0 yes southeast 41

## 858 25 male 24.130 0 yes northwest 16

## 859 25 female 32.230 1 no southeast 18

## 860 57 male 28.100 0 no southwest 11

## 861 37 female 47.600 2 yes southwest 46

## 862 38 female 28.000 3 no southwest 7

## 863 55 female 33.535 2 no northwest 12

## 864 36 female 19.855 0 no northeast 5

## 865 51 male 25.400 0 no southwest 9

## 866 40 male 29.900 2 no southwest 7

## 867 18 male 37.290 0 no southeast 1

## 868 57 male 43.700 1 no southwest 12

## 869 61 male 23.655 0 no northeast 13

## 870 25 female 24.300 3 no southwest 4

## 871 50 male 36.200 0 no southwest 8

## 872 26 female 29.480 1 no southeast 3

## 873 42 male 24.860 0 no southeast 6

## 874 43 male 30.100 1 no southwest 7

## 875 44 male 21.850 3 no northeast 9

## 876 23 female 28.120 0 no northwest 3

## 877 49 female 27.100 1 no southwest 26

## 878 33 male 33.440 5 no southeast 7

## 879 41 male 28.800 1 no southwest 6

## 880 37 female 29.500 2 no southwest 6

## 881 22 male 34.800 3 no southwest 3

## 882 23 male 27.360 1 no northwest 3

## 883 21 female 22.135 0 no northeast 3

## 884 51 female 37.050 3 yes northeast 46

## 885 25 male 26.695 4 no northwest 5

## 886 32 male 28.930 1 yes southeast 20

## 887 57 male 28.975 0 yes northeast 27

## 888 36 female 30.020 0 no northwest 5

## 889 22 male 39.500 0 no southwest 2

## 890 57 male 33.630 1 no northwest 12

## 891 64 female 26.885 0 yes northwest 29

## 892 36 female 29.040 4 no southeast 7

## 893 54 male 24.035 0 no northeast 10

## 894 47 male 38.940 2 yes southeast 44

## 895 62 male 32.110 0 no northeast 14

## 896 61 female 44.000 0 no southwest 13

## 897 43 female 20.045 2 yes northeast 20

## 898 19 male 25.555 1 no northwest 2

## 899 18 female 40.260 0 no southeast 2

## 900 19 female 22.515 0 no northwest 2

## 901 49 male 22.515 0 no northeast 9

## 902 60 male 40.920 0 yes southeast 49

## 903 26 male 27.265 3 no northeast 5

## 904 49 male 36.850 0 no southeast 8

## 905 60 female 35.100 0 no southwest 13

## 906 26 female 29.355 2 no northeast 5

## 907 27 male 32.585 3 no northeast 5

## 908 44 female 32.340 1 no southeast 8

## 909 63 male 39.800 3 no southwest 15

## 910 32 female 24.600 0 yes southwest 17

## 911 22 male 28.310 1 no northwest 3

## 912 18 male 31.730 0 yes northeast 34

## 913 59 female 26.695 3 no northwest 14

## 914 44 female 27.500 1 no southwest 8

## 915 33 male 24.605 2 no northwest 5

## 916 24 female 33.990 0 no southeast 2

## 917 43 female 26.885 0 yes northwest 22

## 918 45 male 22.895 0 yes northeast 35

## 919 61 female 28.200 0 no southwest 13

## 920 35 female 34.210 1 no southeast 5

## 921 62 female 25.000 0 no southwest 13

## 922 62 female 33.200 0 no southwest 13

## 923 38 male 31.000 1 no southwest 5

## 924 34 male 35.815 0 no northwest 4

## 925 43 male 23.200 0 no southwest 6

## 926 50 male 32.110 2 no northeast 25

## 927 19 female 23.400 2 no southwest 3

## 928 57 female 20.100 1 no southwest 12

## 929 62 female 39.160 0 no southeast 13

## 930 41 male 34.210 1 no southeast 6

## 931 26 male 46.530 1 no southeast 3

## 932 39 female 32.500 1 no southwest 6

## 933 46 male 25.800 5 no southwest 10

## 934 45 female 35.300 0 no southwest 7

## 935 32 male 37.180 2 no southeast 5

## 936 59 female 27.500 0 no southwest 12

## 937 44 male 29.735 2 no northeast 32

## 938 39 female 24.225 5 no northwest 9

## 939 18 male 26.180 2 no southeast 2

## 940 53 male 29.480 0 no southeast 9

## 941 18 male 23.210 0 no southeast 1

## 942 50 female 46.090 1 no southeast 10

## 943 18 female 40.185 0 no northeast 2

## 944 19 male 22.610 0 no northwest 2

## 945 62 male 39.930 0 no southeast 13

## 946 56 female 35.800 1 no southwest 12

## 947 42 male 35.800 2 no southwest 7

## 948 37 male 34.200 1 yes northeast 39

## 949 42 male 31.255 0 no northwest 6

## 950 25 male 29.700 3 yes southwest 20

## 951 57 male 18.335 0 no northeast 12

## 952 51 male 42.900 2 yes southeast 47

## 953 30 female 28.405 1 no northwest 5

## 954 44 male 30.200 2 yes southwest 39

## 955 34 male 27.835 1 yes northwest 20

## 956 31 male 39.490 1 no southeast 4

## 957 54 male 30.800 1 yes southeast 42

## 958 24 male 26.790 1 no northwest 13

## 959 43 male 34.960 1 yes northeast 41

## 960 48 male 36.670 1 no northwest 28

## 961 19 female 39.615 1 no northwest 3

## 962 29 female 25.900 0 no southwest 3

## 963 63 female 35.200 1 no southeast 14

## 964 46 male 24.795 3 no northeast 10

## 965 52 male 36.765 2 no northwest 26

## 966 35 male 27.100 1 no southwest 5

## 967 51 male 24.795 2 yes northwest 24

## 968 44 male 25.365 1 no northwest 8

## 969 21 male 25.745 2 no northeast 3

## 970 39 female 34.320 5 no southeast 9

## 971 50 female 28.160 3 no southeast 11

## 972 34 female 23.560 0 no northeast 5

## 973 22 female 20.235 0 no northwest 3

## 974 19 female 40.500 0 no southwest 2

## 975 26 male 35.420 0 no southeast 2

## 976 29 male 22.895 0 yes northeast 16

## 977 48 male 40.150 0 no southeast 8

## 978 26 male 29.150 1 no southeast 3

## 979 45 female 39.995 3 no northeast 10

## 980 36 female 29.920 0 no southeast 5

## 981 54 male 25.460 1 no northeast 26

## 982 34 male 21.375 0 no northeast 5

## 983 31 male 25.900 3 yes southwest 19

## 984 27 female 30.590 1 no northeast 17

## 985 20 male 30.115 5 no northeast 5

## 986 44 female 25.800 1 no southwest 8

## 987 43 male 30.115 3 no northwest 8

## 988 45 female 27.645 1 no northwest 28

## 989 34 male 34.675 0 no northeast 5

## 990 24 female 20.520 0 yes northeast 15

## 991 26 female 19.800 1 no southwest 3

## 992 38 female 27.835 2 no northeast 7

## 993 50 female 31.600 2 no southwest 10

## 994 38 male 28.270 1 no southeast 5

## 995 27 female 20.045 3 yes northwest 16

## 996 39 female 23.275 3 no northeast 8

## 997 39 female 34.100 3 no southwest 7

## 998 63 female 36.850 0 no southeast 14

## 999 33 female 36.290 3 no northeast 7

## 1000 36 female 26.885 0 no northwest 5

## 1001 30 male 22.990 2 yes northwest 17

## 1002 24 male 32.700 0 yes southwest 34

## 1003 24 male 25.800 0 no southwest 2

## 1004 48 male 29.600 0 no southwest 21

## 1005 47 male 19.190 1 no northeast 9

## 1006 29 male 31.730 2 no northwest 4

## 1007 28 male 29.260 2 no northeast 4

## 1008 47 male 28.215 3 yes northwest 25

## 1009 25 male 24.985 2 no northeast 23

## 1010 51 male 27.740 1 no northeast 10

## 1011 48 female 22.800 0 no southwest 8

## 1012 43 male 20.130 2 yes southeast 19

## 1013 61 female 33.330 4 no southeast 37

## 1014 48 male 32.300 1 no northwest 9

## 1015 38 female 27.600 0 no southwest 5

## 1016 59 male 25.460 0 no northwest 12

## 1017 19 female 24.605 1 no northwest 3

## 1018 26 female 34.200 2 no southwest 4

## 1019 54 female 35.815 3 no northwest 12

## 1020 21 female 32.680 2 no northwest 26

## 1021 51 male 37.000 0 no southwest 9

## 1022 22 female 31.020 3 yes southeast 36

## 1023 47 male 36.080 1 yes southeast 42

## 1024 18 male 23.320 1 no southeast 2

## 1025 47 female 45.320 1 no southeast 9

## 1026 21 female 34.600 0 no southwest 2

## 1027 19 male 26.030 1 yes northwest 16

## 1028 23 male 18.715 0 no northwest 22

## 1029 54 male 31.600 0 no southwest 10

## 1030 37 female 17.290 2 no northeast 7

## 1031 46 female 23.655 1 yes northwest 22

## 1032 55 female 35.200 0 yes southeast 44

## 1033 30 female 27.930 0 no northeast 4

## 1034 18 male 21.565 0 yes northeast 14

## 1035 61 male 38.380 0 no northwest 13

## 1036 54 female 23.000 3 no southwest 12

## 1037 22 male 37.070 2 yes southeast 37

## 1038 45 female 30.495 1 yes northwest 40

## 1039 22 male 28.880 0 no northeast 2

## 1040 19 male 27.265 2 no northwest 22

## 1041 35 female 28.025 0 yes northwest 20

## 1042 18 male 23.085 0 no northeast 2

## 1043 20 male 30.685 0 yes northeast 33

## 1044 28 female 25.800 0 no southwest 3

## 1045 55 male 35.245 1 no northeast 11

## 1046 43 female 24.700 2 yes northwest 22

## 1047 43 female 25.080 0 no northeast 7

## 1048 22 male 52.580 1 yes southeast 45

## 1049 25 female 22.515 1 no northwest 4

## 1050 49 male 30.900 0 yes southwest 40

## 1051 44 female 36.955 1 no northwest 8

## 1052 64 male 26.410 0 no northeast 14

## 1053 49 male 29.830 1 no northeast 9

## 1054 47 male 29.800 3 yes southwest 25

## 1055 27 female 21.470 0 no northwest 3

## 1056 55 male 27.645 0 no northwest 11

## 1057 48 female 28.900 0 no southwest 8

## 1058 45 female 31.790 0 no southeast 18

## 1059 24 female 39.490 0 no southeast 2

## 1060 32 male 33.820 1 no northwest 4

## 1061 24 male 32.010 0 no southeast 2

## 1062 57 male 27.940 1 no southeast 12

## 1063 59 male 41.140 1 yes southeast 49

## 1064 36 male 28.595 3 no northwest 7

## 1065 29 female 25.600 4 no southwest 6

## 1066 42 female 25.300 1 no southwest 7

## 1067 48 male 37.290 2 no southeast 9

## 1068 39 male 42.655 0 no northeast 6

## 1069 63 male 21.660 1 no northwest 14

## 1070 54 female 31.900 1 no southeast 11

## 1071 37 male 37.070 1 yes southeast 40

## 1072 63 male 31.445 0 no northeast 14

## 1073 21 male 31.255 0 no northwest 2

## 1074 54 female 28.880 2 no northeast 12

## 1075 60 female 18.335 0 no northeast 13

## 1076 32 female 29.590 1 no southeast 5

## 1077 47 female 32.000 1 no southwest 9

## 1078 21 male 26.030 0 no northeast 2

## 1079 28 male 31.680 0 yes southeast 35

## 1080 63 male 33.660 3 no southeast 15

## 1081 18 male 21.780 2 no southeast 12

## 1082 32 male 27.835 1 no northwest 4

## 1083 38 male 19.950 1 no northwest 6

## 1084 32 male 31.500 1 no southwest 4

## 1085 62 female 30.495 2 no northwest 15

## 1086 39 female 18.300 5 yes southwest 19

## 1087 55 male 28.975 0 no northeast 11

## 1088 57 male 31.540 0 no northwest 11

## 1089 52 male 47.740 1 no southeast 10

## 1090 56 male 22.100 0 no southwest 11

## 1091 47 male 36.190 0 yes southeast 42

## 1092 55 female 29.830 0 no northeast 11

## 1093 23 male 32.700 3 no southwest 4

## 1094 22 female 30.400 0 yes northwest 34

## 1095 50 female 33.700 4 no southwest 11

## 1096 18 female 31.350 4 no northeast 5

## 1097 51 female 34.960 2 yes northeast 45

## 1098 22 male 33.770 0 no southeast 2

## 1099 52 female 30.875 0 no northeast 23

## 1100 25 female 33.990 1 no southeast 3

## 1101 33 female 19.095 2 yes northeast 17

## 1102 53 male 28.600 3 no southwest 11

## 1103 29 male 38.940 1 no southeast 3

## 1104 58 male 36.080 0 no southeast 11

## 1105 37 male 29.800 0 no southwest 20

## 1106 54 female 31.240 0 no southeast 10

## 1107 49 female 29.925 0 no northwest 9

## 1108 50 female 26.220 2 no northwest 10

## 1109 26 male 30.000 1 no southwest 3

## 1110 45 male 20.350 3 no southeast 9

## 1111 54 female 32.300 1 no northeast 12

## 1112 38 male 38.390 3 yes southeast 42

## 1113 48 female 25.850 3 yes southeast 24

## 1114 28 female 26.315 3 no northwest 5

## 1115 23 male 24.510 0 no northeast 2

## 1116 55 male 32.670 1 no southeast 11

## 1117 41 male 29.640 5 no northeast 9

## 1118 25 male 33.330 2 yes southeast 36

## 1119 33 male 35.750 1 yes southeast 38

## 1120 30 female 19.950 3 no northwest 6

## 1121 23 female 31.400 0 yes southwest 34

## 1122 46 male 38.170 2 no southeast 8

## 1123 53 female 36.860 3 yes northwest 47

## 1124 27 female 32.395 1 no northeast 19

## 1125 23 female 42.750 1 yes northeast 41

## 1126 63 female 25.080 0 no northwest 14

## 1127 55 male 29.900 0 no southwest 10

## 1128 35 female 35.860 2 no southeast 6

## 1129 34 male 32.800 1 no southwest 14

## 1130 19 female 18.600 0 no southwest 2

## 1131 39 female 23.870 5 no southeast 9

## 1132 27 male 45.900 2 no southwest 4

## 1133 57 male 40.280 0 no northeast 21

## 1134 52 female 18.335 0 no northwest 10

## 1135 28 male 33.820 0 no northwest 20

## 1136 50 female 28.120 3 no northwest 11

## 1137 44 female 25.000 1 no southwest 8

## 1138 26 female 22.230 0 no northwest 3

## 1139 33 male 30.250 0 no southeast 4

## 1140 19 female 32.490 0 yes northwest 37

## 1141 50 male 37.070 1 no southeast 9

## 1142 41 female 32.600 3 no southwest 8

## 1143 52 female 24.860 0 no southeast 27

## 1144 39 male 32.340 2 no southeast 6

## 1145 50 male 32.300 2 no southwest 10

## 1146 52 male 32.775 3 no northwest 11

## 1147 60 male 32.800 0 yes southwest 53

## 1148 20 female 31.920 0 no northwest 2

## 1149 55 male 21.500 1 no southwest 11

## 1150 42 male 34.100 0 no southwest 6

## 1151 18 female 30.305 0 no northeast 2

## 1152 58 female 36.480 0 no northwest 12

## 1153 43 female 32.560 3 yes southeast 41

## 1154 35 female 35.815 1 no northwest 6

## 1155 48 female 27.930 4 no northwest 11

## 1156 36 female 22.135 3 no northeast 7

## 1157 19 male 44.880 0 yes southeast 40

## 1158 23 female 23.180 2 no northwest 14

## 1159 20 female 30.590 0 no northeast 2

## 1160 32 female 41.100 0 no southwest 4

## 1161 43 female 34.580 1 no northwest 8

## 1162 34 male 42.130 2 no southeast 5

## 1163 30 male 38.830 1 no southeast 19

## 1164 18 female 28.215 0 no northeast 2

## 1165 41 female 28.310 1 no northwest 7

## 1166 35 female 26.125 0 no northeast 5

## 1167 57 male 40.370 0 no southeast 11

## 1168 29 female 24.600 2 no southwest 5

## 1169 32 male 35.200 2 no southwest 5

## 1170 37 female 34.105 1 no northwest 6

## 1171 18 male 27.360 1 yes northeast 17

## 1172 43 female 26.700 2 yes southwest 22

## 1173 56 female 41.910 0 no southeast 11

## 1174 38 male 29.260 2 no northwest 6

## 1175 29 male 32.110 2 no northwest 4

## 1176 22 female 27.100 0 no southwest 2

## 1177 52 female 24.130 1 yes northwest 24

## 1178 40 female 27.400 1 no southwest 6

## 1179 23 female 34.865 0 no northeast 3

## 1180 31 male 29.810 0 yes southeast 19

## 1181 42 female 41.325 1 no northeast 8

## 1182 24 female 29.925 0 no northwest 3

## 1183 25 female 30.300 0 no southwest 3

## 1184 48 female 27.360 1 no northeast 9

## 1185 23 female 28.490 1 yes southeast 18

## 1186 45 male 23.560 2 no northeast 9

## 1187 20 male 35.625 3 yes northwest 37

## 1188 62 female 32.680 0 no northwest 14

## 1189 43 female 25.270 1 yes northeast 22

## 1190 23 female 28.000 0 no southwest 13

## 1191 31 female 32.775 2 no northwest 5

## 1192 41 female 21.755 1 no northeast 14

## 1193 58 female 32.395 1 no northeast 13

## 1194 48 female 36.575 0 no northwest 9

## 1195 31 female 21.755 0 no northwest 4

## 1196 19 female 27.930 3 no northwest 19

## 1197 19 female 30.020 0 yes northwest 33

## 1198 41 male 33.550 0 no southeast 6

## 1199 40 male 29.355 1 no northwest 6

## 1200 31 female 25.800 2 no southwest 5

## 1201 37 male 24.320 2 no northwest 6

## 1202 46 male 40.375 2 no northwest 9

## 1203 22 male 32.110 0 no northwest 2

## 1204 51 male 32.300 1 no northeast 10

## 1205 18 female 27.280 3 yes southeast 18

## 1206 35 male 17.860 1 no northwest 5

## 1207 59 female 34.800 2 no southwest 37

## 1208 36 male 33.400 2 yes southwest 38

## 1209 37 female 25.555 1 yes northeast 20

## 1210 59 male 37.100 1 no southwest 12

## 1211 36 male 30.875 1 no northwest 5

## 1212 39 male 34.100 2 no southeast 24

## 1213 18 male 21.470 0 no northeast 2

## 1214 52 female 33.300 2 no southwest 11

## 1215 27 female 31.255 1 no northwest 4

## 1216 18 male 39.140 0 no northeast 13

## 1217 40 male 25.080 0 no southeast 5

## 1218 29 male 37.290 2 no southeast 4

## 1219 46 female 34.600 1 yes southwest 42

## 1220 38 female 30.210 3 no northwest 8

## 1221 30 female 21.945 1 no northeast 5

## 1222 40 male 24.970 2 no southeast 7

## 1223 50 male 25.300 0 no southeast 8

## 1224 20 female 24.420 0 yes southeast 26

## 1225 41 male 23.940 1 no northeast 7

## 1226 33 female 39.820 1 no southeast 5

## 1227 38 male 16.815 2 no northeast 7

## 1228 42 male 37.180 2 no southeast 7

## 1229 56 male 34.430 0 no southeast 11

## 1230 58 male 30.305 0 no northeast 12

## 1231 52 male 34.485 3 yes northwest 60

## 1232 20 female 21.800 0 yes southwest 20

## 1233 54 female 24.605 3 no northwest 12

## 1234 58 male 23.300 0 no southwest 11

## 1235 45 female 27.830 2 no southeast 9

## 1236 26 male 31.065 0 no northwest 3

## 1237 63 female 21.660 0 no northeast 14

## 1238 58 female 28.215 0 no northwest 12

## 1239 37 male 22.705 3 no northeast 7

## 1240 25 female 42.130 1 no southeast 3

## 1241 52 male 41.800 2 yes southeast 47

## 1242 64 male 36.960 2 yes southeast 50

## 1243 22 female 21.280 3 no northwest 4

## 1244 28 female 33.110 0 no southeast 3

## 1245 18 male 33.330 0 no southeast 1

## 1246 28 male 24.300 5 no southwest 6

## 1247 45 female 25.700 3 no southwest 9

## 1248 33 male 29.400 4 no southwest 6

## 1249 18 female 39.820 0 no southeast 2

## 1250 32 male 33.630 1 yes northeast 38

## 1251 24 male 29.830 0 yes northeast 19

## 1252 19 male 19.800 0 no southwest 1

## 1253 20 male 27.300 0 yes southwest 16

## 1254 40 female 29.300 4 no southwest 16

## 1255 34 female 27.720 0 no southeast 4

## 1256 42 female 37.900 0 no southwest 6

## 1257 51 female 36.385 3 no northwest 11

## 1258 54 female 27.645 1 no northwest 11

## 1259 55 male 37.715 3 no northwest 30

## 1260 52 female 23.180 0 no northeast 10

## 1261 32 female 20.520 0 no northeast 5

## 1262 28 male 37.100 1 no southwest 3

## 1263 41 female 28.050 1 no southeast 7

## 1264 43 female 29.900 1 no southwest 7

## 1265 49 female 33.345 2 no northeast 10

## 1266 64 male 23.760 0 yes southeast 27

## 1267 55 female 30.500 0 no southwest 11

## 1268 24 male 31.065 0 yes northeast 34

## 1269 20 female 33.300 0 no southwest 2

## 1270 45 male 27.500 3 no southwest 9

## 1271 26 male 33.915 1 no northwest 3

## 1272 25 female 34.485 0 no northwest 3

## 1273 43 male 25.520 5 no southeast 14

## 1274 35 male 27.610 1 no southeast 5

## 1275 26 male 27.060 0 yes southeast 17

## 1276 57 male 23.700 0 no southwest 11

## 1277 22 female 30.400 0 no northeast 3

## 1278 32 female 29.735 0 no northwest 4

## 1279 39 male 29.925 1 yes northeast 22

## 1280 25 female 26.790 2 no northwest 4

## 1281 48 female 33.330 0 no southeast 8

## 1282 47 female 27.645 2 yes northwest 25

## 1283 18 female 21.660 0 yes northeast 14

## 1284 18 male 30.030 1 no southeast 2

## 1285 61 male 36.300 1 yes southwest 47

## 1286 47 female 24.320 0 no northeast 9

## 1287 28 female 17.290 0 no northeast 4

## 1288 36 female 25.900 1 no southwest 5

## 1289 20 male 39.400 2 yes southwest 38

## 1290 44 male 34.320 1 no southeast 7

## 1291 38 female 19.950 2 no northeast 7

## 1292 19 male 34.900 0 yes southwest 35

## 1293 21 male 23.210 0 no southeast 2

## 1294 46 male 25.745 3 no northwest 9

## 1295 58 male 25.175 0 no northeast 12

## 1296 20 male 22.000 1 no southwest 2

## 1297 18 male 26.125 0 no northeast 2

## 1298 28 female 26.510 2 no southeast 4

## 1299 33 male 27.455 2 no northwest 5

## 1300 19 female 25.745 1 no northwest 3

## 1301 45 male 30.360 0 yes southeast 63

## 1302 62 male 30.875 3 yes northwest 47

## 1303 25 female 20.800 1 no southwest 3

## 1304 43 male 27.800 0 yes southwest 38

## 1305 42 male 24.605 2 yes northeast 21

## 1306 24 female 27.720 0 no southeast 2

## 1307 29 female 21.850 0 yes northeast 16

## 1308 32 male 28.120 4 yes northwest 21

## 1309 25 female 30.200 0 yes southwest 34

## 1310 41 male 32.200 2 no southwest 7

## 1311 42 male 26.315 1 no northwest 7

## 1312 33 female 26.695 0 no northwest 5

## 1313 34 male 42.900 1 no southwest 5

## 1314 19 female 34.700 2 yes southwest 36

## 1315 30 female 23.655 3 yes northwest 19

## 1316 18 male 28.310 1 no northeast 11

## 1317 19 female 20.600 0 no southwest 2

## 1318 18 male 53.130 0 no southeast 1

## 1319 35 male 39.710 4 no northeast 19

## 1320 39 female 26.315 2 no northwest 7

## 1321 31 male 31.065 3 no northwest 5

## 1322 62 male 26.695 0 yes northeast 28

## 1323 62 male 38.830 0 no southeast 13

## 1324 42 female 40.370 2 yes southeast 44

## 1325 31 male 25.935 1 no northwest 4

## 1326 61 male 33.535 0 no northeast 13

## 1327 42 female 32.870 0 no northeast 7

## 1328 51 male 30.030 1 no southeast 9

## 1329 23 female 24.225 2 no northeast 22

## 1330 52 male 38.600 2 no southwest 10

## 1331 57 female 25.740 2 no southeast 13

## 1332 23 female 33.400 0 no southwest 11

## 1333 52 female 44.700 3 no southwest 11

## 1334 50 male 30.970 3 no northwest 11

## 1335 18 female 31.920 0 no northeast 2

## 1336 18 female 36.850 0 no southeast 2

## 1337 21 female 25.800 0 no southwest 2

## 1338 61 female 29.070 0 yes northwest 29

#create the predictor(independent) and response (dependent) variable

x1 <- ud$num\_subscribers

y1 <- ud$num\_reviews

assigned values to X from data set and selected Education level column assigned value to y from data set and selected pay Grade

#represents length(represents count of data) value of x #represents length of y #Linear equation. x is our independent variable, y is our dependent #y = wx + b

x <- inc$age

y <- inc$bmi

length(x)

## [1] 1338

length(y)

## [1] 1338

plot of the data

plot(x,y,col='red',mamain = "simple linear regression",abline(lm(y~x)),

xlab = "no of subscribers",

ylab = "no of reviews")

## Warning in plot.window(...): "mamain" is not a graphical parameter

## Warning in plot.xy(xy, type, ...): "mamain" is not a graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "mamain" is not a

## graphical parameter

## Warning in axis(side = side, at = at, labels = labels, ...): "mamain" is not a

## graphical parameter

## Warning in box(...): "mamain" is not a graphical parameter

## Warning in title(...): "mamain" is not a graphical parameter

Chart, scatter chart

Description automatically generated

#The has to be positively correlated. One unit increase in x must have corresponding #(0.5 units, 0.3 units, or 1 unit, 2units) increment in y #Always the correlation should me positive and must have increment on y

Execute the model using lm function

cor(x,y)

## [1] 0.1092719

model <- lm(y~x)

#take my x&y variables and then predict Y

coef(model)

## (Intercept) x

## 28.80388931 0.04742792

#lm has coefficients #(Intercept or coefficient 1(model[2])) ( coefficient 1 or x (model[1])) #28.8 0.047

dim(inc)

## [1] 1338 7

simple linear regression

plot(age~bmi,inc)

Scatter chart

Description automatically generated #represents dimention of dat

lmm1 <- lm(age~bmi, inc)

summary(lmm1)

##

## Call:

## lm(formula = age ~ bmi, data = inc)

##

## Residuals:

## Min 1Q Median 3Q Max

## -26.8632 -12.5477 0.3053 11.6915 26.7248

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 31.48728 1.95884 16.074 < 2e-16 \*\*\*

## bmi 0.25176 0.06266 4.018 6.19e-05 \*\*\*

## ---

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

##

## Residual standard error: 13.97 on 1336 degrees of freedom

## Multiple R-squared: 0.01194, Adjusted R-squared: 0.0112

## F-statistic: 16.15 on 1 and 1336 DF, p-value: 6.194e-05

#this estimates the x value. #We checked the correlation is positive and y increment and in the same way we give value to x and checked value is increased on Y

plot(lmm1)

Chart, scatter chart

Description automatically generatedChart, diagram, histogram

Description automatically generatedChart, scatter chart

Description automatically generatedChart, scatter chart

Description automatically generated

#coefficient of 2 element and coefficient of 1 element with intercept . #dependentent variable or Educationlevel for parade or independent variable

no.of\_age <- coef(lmm1)[2] \* x + coef(lmm1)[1]

no.of\_age1 <- coef(lmm1)[2] \* 13 + coef(lmm1)[1]

no.of\_age2 <- coef(lmm1)[2] \* 25 + coef(lmm1)[1]

no.of\_age

## [1] 36.27068 36.01892 38.53649 39.79528 39.54353 39.29177 43.06813 40.80231

## [9] 40.80231 46.59274 37.78122 47.09626 37.27771 45.58571 38.28474 36.27068

## [17] 44.57868 37.27771 45.58571 39.04001 46.59274 39.04001 36.01892 40.04704

## [25] 40.80231 46.34098 47.34801 45.33395 37.27771 39.29177 37.02595 36.01892

## [33] 36.27068 47.34801 38.53649 36.27068 47.09626 38.03298 40.29880 46.59274

## [41] 37.52946 39.29177 41.80935 40.80231 41.05407 45.33395 36.01892 38.53649

## [49] 46.59274 40.55056 36.01892 36.77419 43.57165 40.55056 41.55759 46.08923

## [57] 46.08923 36.01892 44.83044 40.04704 42.31286 37.78122 47.59977 38.53649

## [65] 36.52243 36.27068 46.84450 41.55759 41.55759 38.53649 38.28474 39.29177

## [73] 44.83044 46.08923 42.56462 45.83747 38.78825 36.77419 37.02595 41.80935

## [81] 39.29177 42.81638 37.02595 43.57165 40.80231 42.81638 45.83747 45.58571

## [89] 43.06813 45.33395 36.77419 44.83044 46.34098 40.29880 47.59977 38.53649

## [97] 45.08220 45.33395 45.58571 41.05407 41.80935 39.04001 36.01892 46.84450

## [105] 40.04704 36.52243 36.27068 38.03298 38.78825 47.34801 45.08220 45.33395

## [113] 40.80231 36.77419 44.57868 46.59274 46.08923 38.78825 43.82341 40.80231

## [121] 42.56462 36.01892 36.52243 42.56462 43.31989 38.03298 36.27068 44.57868

## [129] 39.54353 41.05407 46.34098 46.84450 44.83044 36.27068 36.52243 37.02595

## [137] 36.27068 37.02595 45.08220 37.02595 40.04704 38.03298 40.04704 38.78825

## [145] 39.04001 38.78825 43.06813 44.32692 44.83044 36.27068 40.29880 43.57165

## [153] 39.54353 42.06110 41.55759 42.56462 43.57165 36.01892 39.04001 44.07516

## [161] 42.06110 36.01892 45.08220 39.54353 40.80231 43.31989 36.52243 39.54353

## [169] 36.27068 38.28474 47.34801 43.82341 36.01892 40.29880 37.52946 47.34801

## [177] 41.05407 45.08220 43.06813 41.80935 46.08923 36.01892 37.02595 42.56462

## [185] 42.56462 40.55056 38.03298 39.04001 41.80935 38.78825 46.84450 40.55056

## [193] 37.78122 45.58571 36.01892 36.27068 41.30583 42.81638 44.32692 47.59977

## [201] 36.27068 43.57165 46.59274 38.28474 43.06813 38.53649 46.34098 40.29880

## [209] 47.34801 41.55759 36.52243 41.55759 37.52946 40.04704 42.81638 41.80935

## [217] 44.83044 38.28474 38.03298 37.52946 40.04704 44.83044 39.54353 36.27068

## [225] 42.06110 45.33395 38.53649 46.08923 41.80935 43.31989 42.06110 46.34098

## [233] 36.27068 46.34098 41.30583 41.55759 36.01892 39.29177 36.27068 42.56462

## [241] 37.27771 39.79528 45.33395 41.55759 47.34801 45.08220 46.59274 37.52946

## [249] 36.27068 38.78825 36.01892 47.34801 45.08220 38.28474 44.07516 45.33395

## [257] 45.58571 41.05407 44.32692 36.27068 46.08923 36.52243 44.57868 36.27068

## [265] 44.83044 43.06813 41.55759 46.34098 42.81638 43.82341 36.01892 44.07516

## [273] 41.80935 44.07516 37.78122 43.31989 36.27068 37.02595 46.34098 44.32692

## [281] 41.55759 45.08220 39.04001 45.33395 44.57868 43.06813 43.06813 47.34801

## [289] 46.34098 44.57868 38.53649 38.78825 37.78122 37.02595 37.78122 36.01892

## [297] 36.27068 43.31989 39.29177 43.57165 40.55056 44.83044 45.58571 38.53649

## [305] 45.83747 38.78825 38.53649 39.04001 46.08923 41.80935 44.07516 36.27068

## [313] 42.31286 43.82341 38.28474 44.57868 44.07516 45.08220 42.56462 39.54353

## [321] 40.04704 38.03298 40.04704 45.83747 38.78825 41.55759 38.28474 42.81638

## [329] 47.59977 44.57868 46.84450 44.57868 46.84450 45.58571 42.31286 47.59977

## [337] 46.59274 47.09626 44.07516 43.06813 37.52946 47.09626 46.59274 47.34801

## [345] 43.82341 40.04704 39.79528 43.06813 40.55056 36.27068 45.83747 44.07516

## [353] 39.04001 39.79528 36.01892 43.06813 43.06813 43.31989 37.27771 36.01892

## [361] 43.57165 40.29880 36.27068 36.77419 36.77419 43.82341 45.58571 42.06110

## [369] 42.56462 36.01892 46.84450 45.83747 42.06110 38.03298 36.52243 37.27771

## [377] 41.30583 37.52946 47.59977 47.09626 38.28474 45.33395 45.33395 40.29880

## [385] 42.56462 36.27068 46.08923 44.07516 38.03298 37.52946 43.57165 36.27068

## [393] 43.57165 43.82341 43.06813 43.06813 42.31286 36.77419 47.59977 36.01892

## [401] 44.32692 43.31989 47.59977 43.82341 39.29177 44.57868 39.79528 43.31989

## [409] 41.05407 39.54353 36.27068 42.56462 38.03298 37.78122 36.27068 42.31286

## [417] 44.57868 40.55056 47.59977 47.34801 47.59977 46.84450 41.55759 37.78122

## [425] 43.57165 42.81638 41.05407 36.01892 36.77419 38.28474 36.27068 38.78825

## [433] 42.06110 46.59274 39.29177 46.59274 37.02595 40.29880 44.57868 38.03298

## [441] 39.29177 39.79528 36.01892 46.34098 45.58571 42.81638 46.59274 45.58571

## [449] 41.55759 40.29880 41.30583 39.04001 37.52946 36.52243 39.54353 46.34098

## [457] 45.33395 45.83747 45.58571 41.55759 43.82341 42.06110 47.09626 45.58571

## [465] 36.27068 39.04001 46.59274 45.58571 38.53649 36.01892 38.28474 36.01892

## [473] 36.27068 43.31989 45.08220 46.84450 37.52946 37.78122 36.77419 37.27771

## [481] 47.34801 43.82341 36.01892 44.32692 43.57165 39.29177 45.08220 36.27068

## [489] 42.56462 44.83044 36.27068 46.84450 36.01892 46.84450 36.77419 36.52243

## [497] 39.29177 42.81638 42.56462 47.09626 38.78825 42.31286 44.32692 36.27068

## [505] 41.05407 40.80231 37.02595 36.77419 37.52946 45.83747 45.58571 38.28474

## [513] 44.32692 36.27068 41.30583 46.08923 36.52243 42.81638 40.29880 39.29177

## [521] 44.07516 39.54353 44.32692 41.05407 42.06110 36.01892 36.27068 44.32692

## [529] 43.06813 36.01892 45.83747 47.09626 46.34098 40.80231 47.59977 41.05407

## [537] 39.79528 43.06813 43.06813 44.83044 40.04704 36.52243 47.34801 45.08220

## [545] 45.08220 43.82341 38.53649 45.08220 37.78122 42.31286 47.34801 39.54353

## [553] 47.09626 44.57868 37.78122 38.53649 43.06813 40.04704 40.29880 36.27068

## [561] 43.06813 45.08220 38.28474 44.07516 36.01892 36.27068 41.05407 41.80935

## [569] 43.82341 43.57165 39.29177 36.01892 39.04001 47.09626 45.83747 46.08923

## [577] 37.02595 39.29177 44.57868 37.78122 46.34098 36.27068 41.30583 39.54353

## [585] 36.27068 39.79528 36.77419 40.04704 46.84450 41.05407 46.08923 43.31989

## [593] 36.52243 36.77419 41.80935 43.06813 42.06110 40.04704 42.31286 44.57868

## [601] 36.01892 44.32692 45.58571 47.59977 36.27068 44.32692 38.28474 46.34098

## [609] 38.53649 39.04001 43.31989 41.05407 36.01892 40.04704 36.52243 43.31989

## [617] 45.58571 43.82341 36.27068 45.33395 39.04001 40.80231 43.82341 36.01892

## [625] 46.34098 38.78825 40.55056 39.79528 46.08923 42.56462 44.83044 37.52946

## [633] 38.78825 41.55759 44.32692 47.59977 36.27068 40.29880 41.30583 45.58571

## [641] 39.79528 42.06110 46.84450 37.27771 42.31286 43.57165 41.30583 41.55759

## [649] 36.01892 46.08923 43.82341 44.83044 43.57165 42.81638 46.34098 44.57868

## [657] 38.03298 38.28474 43.57165 45.83747 40.80231 45.83747 39.54353 36.01892

## [665] 47.59977 42.31286 43.82341 41.55759 47.09626 41.55759 39.04001 38.78825

## [673] 40.55056 41.80935 42.56462 42.81638 45.33395 46.59274 45.58571 43.82341

## [681] 36.77419 36.27068 41.30583 44.83044 39.79528 44.83044 42.06110 41.55759

## [689] 43.31989 38.28474 36.77419 43.31989 36.52243 37.52946 38.28474 38.03298

## [697] 44.83044 41.80935 45.58571 37.27771 36.77419 44.07516 44.83044 40.04704

## [705] 43.31989 39.79528 44.32692 43.82341 39.29177 40.55056 36.01892 44.07516

## [713] 42.31286 36.52243 37.52946 46.59274 43.82341 46.59274 44.32692 46.08923

## [721] 44.32692 44.83044 47.09626 36.27068 44.07516 39.04001 41.80935 38.78825

## [729] 36.01892 41.80935 40.29880 44.83044 37.52946 43.57165 46.34098 43.82341

## [737] 40.80231 38.03298 37.27771 38.78825 42.81638 38.28474 44.83044 39.29177

## [745] 44.07516 44.07516 40.04704 36.27068 43.31989 38.53649 40.80231 36.77419

## [753] 47.59977 46.08923 37.52946 39.29177 41.30583 43.31989 39.04001 36.01892

## [761] 37.02595 37.27771 39.79528 38.28474 42.81638 45.83747 43.31989 42.06110

## [769] 47.59977 41.05407 46.84450 44.83044 42.56462 36.27068 41.80935 44.32692

## [777] 41.55759 42.81638 40.29880 44.83044 39.04001 36.01892 44.32692 44.07516

## [785] 39.29177 40.29880 46.59274 36.77419 38.78825 47.09626 41.30583 36.27068

## [793] 37.02595 44.83044 41.30583 38.28474 39.04001 39.04001 46.08923 39.79528

## [801] 42.06110 47.59977 36.77419 36.01892 37.27771 42.81638 41.55759 36.27068

## [809] 36.01892 37.78122 43.06813 39.79528 45.08220 38.53649 40.55056 36.52243

## [817] 37.52946 37.27771 43.31989 39.79528 42.81638 38.03298 36.01892 42.56462

## [825] 46.59274 47.59977 45.58571 40.55056 41.80935 41.30583 47.34801 40.55056

## [833] 38.53649 46.08923 40.55056 42.06110 40.55056 45.58571 40.29880 46.34098

## [841] 36.77419 46.34098 37.27771 45.83747 44.83044 46.59274 44.32692 37.27771

## [849] 38.28474 45.33395 40.80231 46.84450 43.06813 44.83044 43.82341 36.52243

## [857] 43.57165 37.78122 37.78122 45.83747 40.80231 41.05407 45.33395 40.55056

## [865] 44.32692 41.55759 36.01892 45.83747 46.84450 37.78122 44.07516 38.03298

## [873] 42.06110 42.31286 42.56462 37.27771 43.82341 39.79528 41.80935 40.80231

## [881] 37.02595 37.27771 36.77419 44.32692 37.78122 39.54353 45.83747 40.55056

## [889] 37.02595 45.83747 47.59977 40.55056 45.08220 43.31989 47.09626 46.84450

## [897] 42.31286 36.27068 36.01892 36.27068 43.82341 46.59274 38.03298 43.82341

## [905] 46.59274 38.03298 38.28474 42.56462 47.34801 39.54353 37.02595 36.01892

## [913] 46.34098 42.56462 39.79528 37.52946 42.31286 42.81638 46.84450 40.29880

## [921] 47.09626 47.09626 41.05407 40.04704 42.31286 44.07516 36.27068 45.83747

## [929] 47.09626 41.80935 38.03298 41.30583 43.06813 42.81638 39.54353 46.34098

## [937] 42.56462 41.30583 36.01892 44.83044 36.01892 44.07516 36.01892 36.27068

## [945] 47.09626 45.58571 42.06110 40.80231 42.06110 37.78122 45.83747 44.32692

## [953] 39.04001 42.56462 40.04704 39.29177 45.08220 37.52946 42.31286 43.57165

## [961] 36.27068 38.78825 47.34801 43.06813 44.57868 40.29880 44.32692 42.56462

## [969] 36.77419 41.30583 44.07516 40.04704 37.02595 36.27068 38.03298 38.78825

## [977] 43.57165 38.03298 42.81638 40.55056 45.08220 40.04704 39.29177 38.28474

## [985] 36.52243 42.56462 42.31286 42.81638 40.04704 37.52946 38.03298 41.05407

## [993] 44.07516 41.05407 38.28474 41.30583 41.30583 47.34801 39.79528 40.55056

## [1001] 39.04001 37.52946 37.52946 43.57165 43.31989 38.78825 38.53649 43.31989

## [1009] 37.78122 44.32692 43.57165 42.31286 46.84450 43.57165 41.05407 46.34098

## [1017] 36.27068 38.03298 45.08220 36.77419 44.32692 37.02595 43.31989 36.01892

## [1025] 43.31989 36.77419 36.27068 37.27771 45.08220 40.80231 43.06813 45.33395

## [1033] 39.04001 36.01892 46.84450 45.08220 37.02595 42.81638 37.02595 36.27068

## [1041] 40.29880 36.01892 36.52243 38.53649 45.33395 42.31286 42.31286 37.02595

## [1049] 37.78122 43.82341 42.56462 47.59977 43.82341 43.31989 38.28474 45.33395

## [1057] 43.57165 42.81638 37.52946 39.54353 37.52946 45.83747 46.34098 40.55056

## [1065] 38.78825 42.06110 43.57165 41.30583 47.34801 45.08220 40.80231 47.34801

## [1073] 36.77419 45.08220 46.59274 39.54353 43.31989 36.77419 38.53649 47.34801

## [1081] 36.01892 39.54353 41.05407 39.54353 47.09626 41.30583 45.33395 45.83747

## [1089] 44.57868 45.58571 43.31989 45.33395 37.27771 37.02595 44.07516 36.01892

## [1097] 44.32692 37.02595 44.57868 37.78122 39.79528 44.83044 38.78825 46.08923

## [1105] 40.80231 45.08220 43.82341 44.07516 38.03298 42.81638 45.08220 41.05407

## [1113] 43.57165 38.53649 37.27771 45.33395 41.80935 37.78122 39.79528 39.04001

## [1121] 37.27771 43.06813 44.83044 38.28474 37.27771 47.34801 45.33395 40.29880

## [1129] 40.04704 36.27068 41.30583 38.28474 45.83747 44.57868 38.53649 44.07516

## [1137] 42.56462 38.03298 39.79528 36.27068 44.07516 41.80935 44.57868 41.30583

## [1145] 44.07516 44.57868 46.59274 36.52243 45.33395 42.06110 36.01892 46.08923

## [1153] 42.31286 40.29880 43.57165 40.55056 36.27068 37.27771 36.52243 39.54353

## [1161] 42.31286 40.04704 39.04001 36.01892 41.80935 40.29880 45.83747 38.78825

## [1169] 39.54353 40.80231 36.01892 42.31286 45.58571 41.05407 38.78825 37.02595

## [1177] 44.57868 41.55759 37.27771 39.29177 42.06110 37.52946 37.78122 43.57165

## [1185] 37.27771 42.81638 36.52243 47.09626 42.31286 37.27771 39.29177 41.80935

## [1193] 46.08923 43.57165 39.29177 36.27068 36.27068 41.80935 41.55759 39.29177

## [1201] 40.80231 43.06813 37.02595 44.32692 36.01892 40.29880 46.34098 40.55056

## [1209] 40.80231 46.34098 40.55056 41.30583 36.01892 44.57868 38.28474 36.01892

## [1217] 41.55759 38.78825 43.06813 41.05407 39.04001 41.55759 44.07516 36.52243

## [1225] 41.80935 39.79528 41.05407 42.06110 45.58571 46.08923 44.57868 36.52243

## [1233] 45.08220 46.08923 42.81638 38.03298 47.34801 46.08923 40.80231 37.78122

## [1241] 44.57868 47.59977 37.02595 38.53649 36.01892 38.53649 42.81638 39.79528

## [1249] 36.01892 39.54353 37.52946 36.27068 36.52243 41.55759 40.04704 42.06110

## [1257] 44.32692 45.08220 45.33395 44.57868 39.54353 38.53649 41.80935 42.31286

## [1265] 43.82341 47.59977 45.33395 37.52946 36.52243 42.81638 38.03298 37.78122

## [1273] 42.31286 40.29880 38.03298 45.83747 37.02595 39.54353 41.30583 37.78122

## [1281] 43.57165 43.31989 36.01892 36.01892 46.84450 43.31989 38.53649 40.55056

## [1289] 36.52243 42.56462 41.05407 36.27068 36.77419 43.06813 46.08923 36.52243

## [1297] 36.01892 38.53649 39.79528 36.27068 42.81638 47.09626 37.78122 42.31286

## [1305] 42.06110 37.52946 38.78825 39.54353 37.78122 41.80935 42.06110 39.79528

## [1313] 40.04704 36.27068 39.04001 36.01892 36.27068 36.01892 40.29880 41.30583

## [1321] 39.29177 47.09626 47.09626 42.06110 39.29177 46.84450 42.06110 44.32692

## [1329] 37.27771 44.57868 45.83747 37.27771 44.57868 44.07516 36.01892 36.01892

## [1337] 36.77419 46.84450

no.of\_age1

## bmi

## 34.76013

no.of\_age2

## bmi

## 37.78122

summary(no.of\_age1)

## Min. 1st Qu. Median Mean 3rd Qu. Max.

## 34.76 34.76 34.76 34.76 34.76 34.76

#glmm-generalized linear model#its elaborate and better function to execute

glmm1 <- glm(age~bmi,inc, family = poisson)

.

coef(glmm1)

## (Intercept) bmi

## 3.472277113 0.006386061

summary(glmm1)

##

## Call:

## glm(formula = age ~ bmi, family = poisson, data = inc)

##

## Deviance Residuals:

## Min 1Q Median 3Q Max

## -4.6130 -2.1273 0.0476 1.7938 3.9624

##

## Coefficients:

## Estimate Std. Error z value Pr(>|z|)

## (Intercept) 3.4722771 0.0224409 154.730 <2e-16 \*\*\*

## bmi 0.0063861 0.0007123 8.965 <2e-16 \*\*\*

## ---

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

##

## (Dispersion parameter for poisson family taken to be 1)

##

## Null deviance: 6959.2 on 1337 degrees of freedom

## Residual deviance: 6879.1 on 1336 degrees of freedom

## AIC: 14162

##

## Number of Fisher Scoring iterations: 4

#In same way like LM function we use GLM functions gives the best result compared to LM function. #We assigned different values like 13,25 to check the function.

glmm.no.of\_age1 <- exp(coef(glmm1)[2]\*13 + coef(glmm1)[1])

glmm.no.of\_age2 <- exp(coef(glmm1)[2]\*25 + coef(glmm1)[1])

glmm.no.of\_age1

## bmi

## 34.99817

glmm.no.of\_age2

## bmi

## 37.78562

#multi leaner regression

in this we multipule variables to get better values

model1 <- lm(age~bmi+children,data = inc)

summary(model1)

##

## Call:

## lm(formula = age ~ bmi + children, data = inc)

##

## Residuals:

## Min 1Q Median 3Q Max

## -26.3118 -12.5143 -0.0002 11.5751 27.2398

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 31.00006 1.98427 15.623 < 2e-16 \*\*\*

## bmi 0.25055 0.06263 4.000 6.67e-05 \*\*\*

## children 0.47880 0.31683 1.511 0.131

## ---

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

##

## Residual standard error: 13.96 on 1335 degrees of freedom

## Multiple R-squared: 0.01363, Adjusted R-squared: 0.01215

## F-statistic: 9.222 on 2 and 1335 DF, p-value: 0.0001053

we need to cheek the p\_value and adj r\_ squared value o.o1

#if the it incresend when the variables are add the best model will come out

model2 <- lm(age~bmi+children+charges\_.000.,data=inc)

summary(model2)

##

## Call:

## lm(formula = age ~ bmi + children + charges\_.000., data = inc)

##

## Residuals:

## Min 1Q Median 3Q Max

## -30.8577 -11.4387 0.2616 11.1310 25.3471

##

## Coefficients:

## Estimate Std. Error t value Pr(>|t|)

## (Intercept) 30.82078 1.90465 16.182 <2e-16 \*\*\*

## bmi 0.12069 0.06132 1.968 0.0493 \*

## children 0.26097 0.30478 0.856 0.3920

## charges\_.000. 0.33177 0.03093 10.727 <2e-16 \*\*\*

## ---

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

##

## Residual standard error: 13.4 on 1334 degrees of freedom

## Multiple R-squared: 0.09195, Adjusted R-squared: 0.08991

## F-statistic: 45.03 on 3 and 1334 DF, p-value: < 2.2e-16

we came to know the 2nd model is best because the r\_squared and p values are incresde.

#Kmeans and clustering.

inc %>%

ggplot(aes(x=age,y=bmi))+geom\_point()

Chart, scatter chart

Description automatically generated # plot and showed the values how they are in the data

#now we take taken the two variables and clusterd the both of them

inc1 <- inc %>%

select(age,bmi)

by using the kmeans we do the clustering in to the 5

incclus <- kmeans(inc1,centers = 5)

it is the attributes of the cluester data

attributes(incclus)

## $names

## [1] "cluster" "centers" "totss" "withinss" "tot.withinss"

## [6] "betweenss" "size" "iter" "ifault"

##

## $class

## [1] "kmeans"

incclus$centers

## age bmi

## 1 47.60246 27.13303

## 2 33.14050 26.49882

## 3 57.85526 32.95176

## 4 39.56915 37.27210

## 5 21.65833 30.47211

incclus$cluster

## [1] 5 5 5 2 2 2 1 2 2 3 5 3 5 3 5 5 1 5 3 2 3 2 5 2 2 3 3 3 5 4 5 5 5 3 5 5 3

## [38] 2 4 3 5 4 1 2 4 3 5 5 3 4 5 5 1 4 2 3 3 5 1 4 1 5 3 2 5 5 3 2 4 2 2 2 1 3

## [75] 1 3 2 5 5 4 2 4 5 4 4 1 3 3 1 3 5 1 3 4 3 5 3 3 1 2 4 2 5 3 2 5 5 5 2 3 3

## [112] 3 2 5 3 3 3 2 1 2 4 5 5 1 1 5 5 3 2 4 3 3 3 5 5 5 5 5 3 5 2 5 2 2 2 4 1 3

## [149] 3 5 2 1 4 1 2 4 1 5 2 1 1 5 3 2 2 1 5 2 5 2 3 1 5 4 5 3 2 3 1 4 3 5 5 1 1

## [186] 4 5 2 4 2 3 2 5 3 5 5 4 1 1 3 5 1 3 5 1 2 3 2 3 4 5 4 5 2 1 4 1 2 5 5 4 3

## [223] 2 5 1 3 5 3 4 1 4 3 5 3 2 2 5 4 5 4 5 2 3 4 3 3 3 5 5 2 5 3 3 5 1 1 3 4 1

## [260] 5 3 5 1 5 3 4 2 3 1 1 5 1 4 1 5 1 5 5 3 1 2 3 2 3 1 1 4 3 3 1 5 2 5 5 5 5

## [297] 5 1 2 1 2 1 3 5 3 5 2 2 3 4 1 5 4 1 5 3 1 3 1 4 2 5 2 3 2 4 2 4 3 3 3 1 3

## [334] 3 4 3 3 3 1 1 5 3 3 3 4 2 4 1 2 5 3 1 2 4 5 1 4 1 5 5 1 2 5 5 5 1 3 1 1 5

## [371] 3 1 4 5 5 5 2 5 3 3 2 3 3 4 1 5 3 1 2 5 1 5 1 1 1 1 4 5 3 5 1 4 3 1 2 3 2

## [408] 1 2 2 5 1 2 5 5 4 3 2 3 3 3 3 4 5 1 1 2 5 5 5 5 2 1 3 2 3 5 2 3 5 2 2 5 3

## [445] 3 1 3 3 2 4 2 2 5 5 4 3 3 3 3 4 4 1 3 3 5 2 3 3 2 5 5 5 5 1 1 3 5 5 5 5 3

## [482] 4 5 3 1 2 1 5 4 3 5 3 5 3 5 5 2 1 1 3 5 1 1 5 2 2 5 5 5 3 3 5 1 5 2 3 5 1

## [519] 2 2 1 4 3 4 1 5 5 1 4 5 3 3 3 4 3 2 4 1 1 3 4 5 3 3 3 1 5 3 5 4 3 2 3 3 5

## [556] 2 1 4 4 5 1 3 5 4 5 5 4 4 1 4 2 5 4 3 3 3 5 4 1 5 3 5 4 2 5 2 5 2 3 2 3 1

## [593] 5 5 4 1 1 2 4 3 5 1 3 3 5 3 2 3 2 4 1 4 5 2 5 4 3 1 5 3 2 4 1 5 3 2 2 4 3

## [630] 4 3 5 5 2 3 3 5 4 2 3 4 1 3 5 4 1 2 2 5 3 4 3 1 4 3 1 5 5 4 3 4 3 2 5 3 4

## [667] 1 4 3 4 2 2 2 4 4 1 3 3 3 1 5 5 4 1 2 1 1 4 1 5 5 4 5 5 5 5 3 4 3 5 5 4 3

## [704] 2 1 2 3 1 2 2 5 1 1 5 5 3 1 3 3 3 3 3 3 5 1 4 1 2 5 4 2 1 5 1 3 1 4 2 5 5

## [741] 1 5 3 2 1 1 2 5 4 5 2 5 3 3 5 2 2 1 4 5 5 5 2 2 1 3 1 1 3 2 3 1 4 5 4 3 4

## [778] 4 4 1 2 5 3 1 2 2 3 5 2 3 4 5 5 1 4 5 4 2 3 2 1 3 5 5 5 4 4 5 5 5 1 4 1 2

## [815] 4 5 5 5 1 4 4 2 5 1 3 3 3 2 4 2 3 2 2 3 4 4 2 3 2 3 5 3 5 3 3 3 3 5 2 3 2

## [852] 3 4 1 1 5 1 5 5 3 4 2 3 2 1 4 5 3 3 5 3 5 1 1 1 5 1 2 1 2 5 5 5 3 5 2 3 2

## [889] 5 3 3 2 1 4 3 3 1 5 5 5 1 3 5 4 3 5 5 1 3 2 5 5 3 1 2 5 1 1 3 4 3 3 4 4 1

## [926] 1 5 1 3 4 4 4 1 4 4 3 1 2 5 1 5 4 5 5 3 3 4 4 4 5 1 3 2 1 2 4 3 5 4 4 5 2

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## [1000] 2 2 5 5 1 1 2 2 1 5 1 1 1 3 1 2 3 5 5 3 5 3 5 4 5 4 5 5 5 3 2 1 3 2 5 3 1

## [1037] 5 1 5 5 2 5 5 2 3 1 1 5 5 1 4 3 1 1 2 3 1 1 5 2 5 3 3 2 2 1 4 4 3 3 4 3 5

## [1074] 3 3 2 1 5 5 3 5 2 2 2 3 2 3 3 3 1 4 3 5 5 1 5 3 5 1 5 2 1 4 3 2 3 1 1 5 1

## [1111] 3 4 1 2 5 3 1 5 4 2 5 4 3 5 5 3 3 4 2 5 2 4 3 1 5 1 1 2 2 5 3 4 1 4 1 3 3

## [1148] 5 1 4 5 3 4 4 1 2 5 5 5 4 4 4 4 5 1 2 3 2 4 4 5 1 3 2 2 5 1 2 5 2 4 5 5 1

## [1185] 5 1 5 3 1 5 2 1 3 4 2 5 5 4 2 2 2 4 5 1 5 2 3 4 2 3 2 4 5 3 5 5 2 5 4 2 2

## [1222] 2 1 5 1 4 2 4 3 3 3 5 1 3 1 5 3 3 2 5 3 3 5 5 5 2 1 2 5 2 5 5 5 2 2 4 3 1

## [1259] 3 1 2 5 1 1 1 3 3 5 5 1 5 5 1 2 5 3 5 2 2 5 1 1 5 5 3 1 2 2 5 4 2 5 5 1 3

## [1296] 5 5 2 2 5 1 3 2 1 1 5 2 2 5 4 1 2 4 5 2 5 5 5 4 2 2 3 3 4 2 3 4 1 5 3 3 5

## [1333] 3 1 5 5 5 3

incclus$totss

## [1] 313645.9

incclus$withinss

## [1] 6990.512 7807.594 13661.807 8673.258 16747.146

incclus$tot.withinss

## [1] 53880.32

incclus$size

## [1] 244 242 304 188 360

incclus$iter

## [1] 5

#plot of the clustered data

plot(inc1$age,inc1$bmi,col=incclus$cluster)

Chart, scatter chart

Description automatically generated

this are the kmeans of the data in the graph showen

kmeans.ani(inc1,centers = 5)

Chart, scatter chart

Description automatically generatedChart, scatter chart

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Description automatically generated

x1 <- ud$num\_subscribers

y1 <- ud$num\_reviews

x1 <- ud$num\_subscribers

y1 <- ud$num\_reviews