

# Week 2 Exercises

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November 4, 2022

Please complete all exercises below. You may use stringr, lubridate, or the forcats library.

Place this at the top of your script: library(stringr) library(lubridate) library(forcats)

## Exercise 1

Read the sales\_pipe.txt file into an R data frame as sales.

```
# Your code here
sales <- read.delim("data/sales_pipe.txt"
                    ,stringsAsFactors = FALSE
                    ,sep = "|")
```

## Exercise 2

You can extract a vector of columns names from a data frame using the colnames() function. Notice the first column has some odd characters. Change the column name for the FIRST column in the sales data frame to Row.ID.

**Note:** You will need to assign the first element of colnames to a single character.

```
# Your code here
colnames(sales)[colnames(sales) == "?..Row.ID"] <- "Row.ID"
```

## Exercise 3

Convert both ship.Date and Order.Date to date vectors within the sales data frame. What is the number of days between the most recent order and the oldest order? How many years is that? How many weeks?

**Note:** Use lubridate

```
# Your code here
library(lubridate)
```

```
##
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:base':  
##  
##    date, intersect, setdiff, union
```

```
sales$Ship.Date <- mdy(sales$Ship.Date)  
  
sales$Order.Date <- as.Date(sales$Order.Date  
                           ,format = "%m/%d/%Y"  
                           )  
  
x = max(sales$Order.Date) - min(sales$Order.Date)  
year <- (x / 365)  
week <- (x/7)  
print(x)
```

```
## Time difference of 1457 days
```

```
print(year)
```

```
## Time difference of 3.991781 days
```

```
print(week)
```

```
## Time difference of 208.1429 days
```

## Exercise 4

What is the average number of days it takes to ship an order?

```
# Your code here  
sales$difference <- (sales$Ship.Date - sales$Order.Date)  
result = as.numeric(sum(sales$difference))  
x = length(sales$Order.Date) + length(sales$Ship.Date)  
avg <- result/x  
print(avg)
```

```
## [1] 1.954241
```

## Exercise 5

How many customers have the first name Bill? You will need to split the customer name into first and last name segments and then use a regular expression to match the first name bill. Use the `length()` function to determine the number of customers with the first name Bill in the sales data.

```
# Your code here  
Customer.Name <- sales[,7]  
sapply(strsplit(Customer.Name, " "), '[',1)
```

##	[1]	"Claire"	"Claire"	"Darrin"	"Sean"	"Sean"
##	[6]	"Brosina"	"Brosina"	"Brosina"	"Brosina"	"Brosina"
##	[11]	"Brosina"	"Brosina"	"Andrew"	"Irene"	"Harold"
##	[16]	"Harold"	"Pete"	"Ken"	"Ken"	"Sandra"
##	[21]	"Emily"	"Eric"	"Eric"	"Tracy"	"Tracy"
##	[26]	"Tracy"	"Ken"	"Joel"	"Stewart"	"Stewart"
##	[31]	"Duane"	"Duane"	"Julie"	"Christopher"	"Patrick"
##	[36]	"Paul"	"Paul"	"Gary"	"Jim"	"Jim"
##	[41]	"Jim"	"Karl"	"Karl"	"Janet"	"Janet"
##	[46]	"Janet"	"Pete"	"Cynthia"	"Clay"	"Clay"
##	[51]	"Sally"	"Sally"	"Sally"	"Sandra"	"Helen"
##	[56]	"Maureen"	"Joni"	"Joni"	"David"	"David"
##	[61]	"David"	"Valerie"	"Valerie"	"Erin"	"Christopher"
##	[66]	"Christopher"	"Christopher"	"Christopher"	"Christopher"	"David"
##	[71]	"Ken"	"Ken"	"Ken"	"Ken"	"Ken"
##	[76]	"Ken"	"Ken"	"Dianna"	"Dianna"	"Dianna"
##	[81]	"Dianna"	"Dianna"	"Logan"	"Kelly"	"Kelly"
##	[86]	"Delfina"	"Delfina"	"Dan"	"Dan"	"Tracy"
##	[91]	"Tracy"	"Tracy"	"Alan"	"Alan"	"Alan"
##	[96]	"Nick"	"Nick"	"Nick"	"Nick"	"Kelly"
##	[101]	"Jonathan"	"Jonathan"	"Jonathan"	"Jonathan"	"Alan"
##	[106]	"Ken"	"Corey"	"Corey"	"Shahid"	"Ben"
##	[111]	"Ben"	"Ben"	"Ben"	"Thomas"	"Andy"
##	[116]	"Andy"	"Sung"	"Nathan"	"Nathan"	"Nathan"
##	[121]	"Nathan"	"Nathan"	"Frank"	"Grace"	"Grace"
##	[126]	"Don"	"Patrick"	"Patrick"	"Patrick"	"Patrick"
##	[131]	"Patrick"	"John"	"John"	"John"	"Doug"
##	[136]	"Doug"	"Doug"	"Alyssa"	"Alyssa"	"Ken"
##	[141]	"Chad"	"Clay"	"Tamara"	"Tamara"	"Tamara"
##	[146]	"Adam"	"Adam"	"Adam"	"Adam"	"Adam"
##	[151]	"Jeremy"	"Jeremy"	"Jeremy"	"Jeremy"	"Heather"
##	[156]	"Victoria"	"Victoria"	"Katrina"	"Katrina"	"Katrina"
##	[161]	"Katrina"	"Julia"	"Michael"	"Michael"	"Michael"
##	[166]	"Michael"	"Guy"	"Guy"	"Arthur"	"Arthur"
##	[171]	"Arthur"	"Arthur"	"Muhammed"	"Allen"	"Alejandro"
##	[176]	"Alejandro"	"Laura"	"Denny"	"Denny"	"Dean"
##	[181]	"Dean"	"Nathan"	"Mike"	"Mike"	"Jack"
##	[186]	"Jack"	"Bart"	"Victor"	"Saphhira"	"Saphhira"
##	[191]	"Harold"	"Anna"	"Luke"	"Stephanie"	"Roy"
##	[196]	"Keith"	"Keith"	"Keith"	"Keith"	"Keith"
##	[201]	"Keith"	"Keith"	"Keith"	"Keith"	"Kimberly"
##	[206]	"Kimberly"	"Caroline"	"Philip"	"Victoria"	"Sung"
##	[211]	"Sung"	"Joel"	"Michael"	"Michael"	"Natalie"
##	[216]	"Janet"	"Janet"	"Shirley"	"Ken"	"Ross"
##	[221]	"Ross"	"Ross"	"Ross"	"Dave"	"Mike"
##	[226]	"Mike"	"Philisse"	"Philisse"	"Brenda"	"Cynthia"
##	[231]	"Pete"	"Pete"	"Pete"	"Pete"	"Pete"
##	[236]	"Pete"	"Troy"	"Raymond"	"Raymond"	"Raymond"
##	[241]	"Raymond"	"Raymond"	"Raymond"	"Ed"	"Ed"
##	[246]	"Ken"	"Sanjit"	"Natalie"	"Natalie"	"Joseph"
##	[251]	"Joseph"	"Joseph"	"Tanja"	"Tanja"	"Tanja"
##	[256]	"Tanja"	"Tanja"	"Joni"	"David"	"Craig"
##	[261]	"Maya"	"Jeremy"	"Jeremy"	"Jeremy"	"Jeremy"
##	[266]	"Jeremy"	"Jeremy"	"Kristen"	"Jeremy"	"John"

##	[271]	"John"	"Xylona"	"Erin"	"Erin"	"Michelle"
##	[276]	"Michelle"	"Michelle"	"Sue"	"Carl"	"Carl"
##	[281]	"Carl"	"Astrea"	"Astrea"	"Sonia"	"Rose"
##	[286]	"Maribeth"	"Sanjit"	"Sanjit"	"Greg"	"Dean"
##	[291]	"Ashley"	"Olvera"	"Olvera"	"Olvera"	"Liz"
##	[296]	"Liz"	"Cynthia"	"Cynthia"	"Jeremy"	"Jeremy"
##	[301]	"Frank"	"Ellis"	"Ellis"	"Ellis"	"Ellis"
##	[306]	"Jennifer"	"Jennifer"	"Jennifer"	"Jennifer"	"Sarah"
##	[311]	"Trudy"	"Trudy"	"Trudy"	"Carlos"	"Carlos"
##	[316]	"Christina"	"Sylvia"	"Sylvia"	"Sylvia"	"Sylvia"
##	[321]	"Meg"	"Annie"	"Logan"	"Logan"	"Fred"
##	[326]	"Fred"	"Fred"	"Brian"	"Brian"	"Denny"
##	[331]	"Max"	"Max"	"Rick"	"Rick"	"Justin"
##	[336]	"John"	"John"	"Sean"	"Tamara"	"Chuck"
##	[341]	"Barry"	"Barry"	"Anthony"	"Anthony"	"Anthony"
##	[346]	"Steven"	"Allen"	"Allen"	"Craig"	"Craig"
##	[351]	"Craig"	"Eugene"	"Eugene"	"Cassandra"	"Cassandra"
##	[356]	"Cassandra"	"Cassandra"	"Carol"	"Doug"	"Doug"
##	[361]	"Doug"	"Grant"	"Grant"	"Michael"	"Michael"
##	[366]	"Michael"	"Ralph"	"Naresj"	"Naresj"	"Naresj"
##	[371]	"Alan"	"Alan"	"Jesus"	"Jesus"	"Jesus"
##	[376]	"Jesus"	"Jesus"	"Jesus"	"Jesus"	"Dorris"
##	[381]	"Alejandro"	"Jay"	"Brad"	"Brad"	"Brad"
##	[386]	"David"	"David"	"David"	"Tracy"	"Arthur"
##	[391]	"Roland"	"Roland"	"Roland"	"Dorris"	"Seth"
##	[396]	"Kelly"	"Steve"	"Jay"	"Jay"	"Emily"
##	[401]	"Emily"	"Emily"	"Emily"	"Emily"	"Darrin"
##	[406]	"Darrin"	"Darrin"	"Darrin"	"Darrin"	"Darrin"
##	[411]	"Gary"	"Phillina"	"Phillina"	"Phillina"	"Sung"
##	[416]	"Sung"	"Sung"	"Sung"	"Helen"	"Helen"
##	[421]	"Mike"	"Gary"	"Russell"	"Russell"	"Allen"
##	[426]	"Allen"	"Zuschuss"	"Zuschuss"	"Cyma"	"Dave"
##	[431]	"Dave"	"Valerie"	"Greg"	"Linda"	"Guy"
##	[436]	"Paul"	"Paul"	"Tracy"	"Sally"	"Sally"
##	[441]	"Guy"	"Chuck"	"Chuck"	"Chuck"	"Anthony"
##	[446]	"Harold"	"Harold"	"Dave"	"Gary"	"Peter"
##	[451]	"Lauren"	"Jill"	"Olvera"	"Ed"	"Cyma"
##	[456]	"Jeremy"	"Jeremy"	"Tracy"	"Tracy"	"Tracy"
##	[461]	"Pamela"	"Pamela"	"Hunter"	"Maribeth"	"George"
##	[466]	"Justin"	"Tamara"	"Tamara"	"Dave"	"Logan"
##	[471]	"Logan"	"Logan"	"Patrick"	"Patrick"	"Patrick"
##	[476]	"Bill"	"Bill"	"Bill"	"Sample"	"Brian"
##	[481]	"Cynthia"	"Ross"	"Ross"	"Ross"	"Ross"
##	[486]	"Ross"	"Katherine"	"Greg"	"Greg"	"Scott"
##	[491]	"Joseph"	"Joseph"	"Joseph"	"Daniel"	"Lindsay"
##	[496]	"Thomas"	"Cynthia"	"Maribeth"	"Bryan"	"Bryan"
##	[501]	"Bryan"	"Bryan"	"Bryan"	"Bryan"	"Delfina"
##	[506]	"Delfina"	"Delfina"	"Delfina"	"Phillina"	"Phillina"
##	[511]	"Tamara"	"Bart"	"Robert"	"Ken"	"Emily"
##	[516]	"Tracy"	"Tracy"	"Tracy"	"Ann"	"Ann"
##	[521]	"Ann"	"Toby"	"John"	"John"	"Sara"
##	[526]	"Troy"	"Roland"	"Roland"	"Mitch"	"Mitch"
##	[531]	"Rob"	"Rob"	"Rob"	"Rob"	"Frank"
##	[536]	"Rick"	"Rick"	"Philip"	"John"	"John"

##	[541]	"Meg"	"Kalyca"	"Kalyca"	"Nicole"	"Nicole"
##	[546]	"Nicole"	"Nicole"	"Ben"	"Ben"	"Adam"
##	[551]	"Alyssa"	"Joel"	"Joel"	"Cathy"	"Dave"
##	[556]	"Dave"	"Rob"	"Rob"	"Harold"	"Harold"
##	[561]	"Harold"	"Harold"	"Bradley"	"Bradley"	"Bradley"
##	[566]	"Bradley"	"Bradley"	"Nat"	"Nat"	"Nat"
##	[571]	"Nat"	"Zuschuss"	"Zuschuss"	"Zuschuss"	"Linda"
##	[576]	"Linda"	"Linda"	"Linda"	"Linda"	"Larry"
##	[581]	"Steven"	"Steven"	"Steven"	"Steven"	"Steven"
##	[586]	"Steven"	"Stefania"	"Stefania"	"Stefania"	"Stefania"
##	[591]	"Stefania"	"Stefania"	"Stefania"	"Stefania"	"Ben"
##	[596]	"Ben"	"Becky"	"Becky"	"Becky"	"Becky"
##	[601]	"Becky"	"Becky"	"Zuschuss"	"Zuschuss"	"Zuschuss"
##	[606]	"Kean"	"Kean"	"Brooke"	"Patrick"	"Patrick"
##	[611]	"Patrick"	"Patrick"	"Christine"	"Chris"	"Chris"
##	[616]	"Phillip"	"Julie"	"Julie"	"Brooke"	"Dan"
##	[621]	"Sibella"	"Sibella"	"Sibella"	"Maurice"	"Maurice"
##	[626]	"Maurice"	"Maurice"	"Bryan"	"Karen"	"Karen"
##	[631]	"Toby"	"Sue"	"Sue"	"Sue"	"Katrina"
##	[636]	"Gene"	"Alan"	"Todd"	"Todd"	"Todd"
##	[641]	"Chuck"	"Henry"	"Helen"	"Laurel"	"Laurel"
##	[646]	"Matt"	"Matt"	"Liz"	"Evan"	"George"
##	[651]	"Laurel"	"Alan"	"Cathy"	"Frank"	"Lisa"
##	[656]	"Alejandro"	"Alejandro"	"Michael"	"Michael"	"Harold"
##	[661]	"Jim"	"Jamie"	"Chad"	"Chad"	"Chad"
##	[666]	"Aaron"	"Aaron"	"Valerie"	"Julie"	"Paul"
##	[671]	"Paul"	"Paul"	"Paul"	"Paul"	"Paul"
##	[676]	"Paul"	"Paul"	"Paul"	"Paul"	"Damala"
##	[681]	"Liz"	"Irene"	"Irene"	"Irene"	"Frank"
##	[686]	"Shui"	"Shui"	"Joel"	"Joel"	"Bill"
##	[691]	"Bill"	"Michael"	"Pauline"	"Shaun"	"Ken"
##	[696]	"Shirley"	"Shaun"	"Nicole"	"Andrew"	"Logan"
##	[701]	"Mick"	"Linda"	"Linda"	"Keith"	"Maria"
##	[706]	"Maria"	"Tracy"	"Damala"	"Damala"	"Damala"
##	[711]	"Odella"	"Katherine"	"Neoma"	"Nora"	"Nora"
##	[716]	"Catherine"	"Cindy"	"Katherine"	"Mike"	"Mike"
##	[721]	"Mike"	"Don"	"Don"	"Christine"	"Maxwell"
##	[726]	"Corinna"	"Corinna"	"Corinna"	"Corey-Lock"	"Dionis"
##	[731]	"Todd"	"Todd"	"Jane"	"Roy"	"John"
##	[736]	"John"	"John"	"Neil"	"Cindy"	"Lindsay"
##	[741]	"Jessica"	"Nicole"	"Nicole"	"Russell"	"Russell"
##	[746]	"Russell"	"Arianne"	"Michael"	"Tom"	"Tom"
##	[751]	"Victoria"	"Paul"	"Gary"	"Gary"	"Caroline"
##	[756]	"Caroline"	"Mike"	"Mike"	"Benjamin"	"Jeremy"
##	[761]	"Jeremy"	"Ellis"	"Mike"	"Jim"	"Jim"
##	[766]	"Carl"	"Carl"	"Carl"	"Carl"	"Chloris"
##	[771]	"Chloris"	"Deborah"	"Deborah"	"Pamela"	"Victoria"
##	[776]	"Victoria"	"Victoria"	"Emily"	"Maria"	"Ivan"
##	[781]	"Joni"	"Bobby"	"Victoria"	"Aimee"	"Julia"
##	[786]	"Julia"	"Jeremy"	"Edward"	"Paul"	"Christopher"
##	[791]	"Sheri"	"Charlotte"	"Clay"	"Jesus"	"Anthony"
##	[796]	"Anthony"	"Dianna"	"Adam"	"Sanjit"	"Sanjit"
##	[801]	"Sanjit"	"Sanjit"	"Mick"	"Mick"	"Tonja"
##	[806]	"Anne"	"Dan"	"Naresj"	"Naresj"	"Naresj"

##	[811]	"Naresj"	"Naresj"	"Naresj"	"Naresj"	"Naresj"
##	[816]	"Naresj"	"Naresj"	"Vivek"	"Muhammed"	"Muhammed"
##	[821]	"Rick"	"Jeremy"	"Dennis"	"Maribeth"	"Maribeth"
##	[826]	"Aimee"	"Aimee"	"Aimee"	"Aimee"	"George"
##	[831]	"Cynthia"	"Max"	"Jas"	"Jas"	"Jas"
##	[836]	"Jas"	"Jas"	"Jas"	"Marina"	"Marina"
##	[841]	"Marina"	"Yana"	"Paul"	"Julie"	"Julie"
##	[846]	"Julie"	"Parhena"	"Parhena"	"Jenna"	"Christina"
##	[851]	"Hunter"	"Thea"	"Michelle"	"Michelle"	"Quincy"
##	[856]	"Quincy"	"Neola"	"Neola"	"Neola"	"Neola"
##	[861]	"Neola"	"Neola"	"Michael"	"Rick"	"Robert"
##	[866]	"Rob"	"Shaun"	"Sylvia"	"Sylvia"	"Eric"
##	[871]	"Eric"	"Sean"	"Sean"	"Sean"	"Sean"
##	[876]	"Pamela"	"Claudia"	"Damala"	"Damala"	"Damala"
##	[881]	"Anthony"	"Anthony"	"Troy"	"Herbert"	"Herbert"
##	[886]	"Henia"	"Alejandro"	"Phillina"	"Phillina"	"Phillina"
##	[891]	"Arthur"	"Arthur"	"Steven"	"Natalie"	"Natalie"
##	[896]	"Natalie"	"Cynthia"	"Patrick"	"Irene"	"Jamie"
##	[901]	"Jamie"	"Jamie"	"Jamie"	"Jamie"	"Jamie"
##	[906]	"Jeremy"	"Michelle"	"Debra"	"John"	"Bradley"
##	[911]	"Bradley"	"Bradley"	"Bradley"	"Bradley"	"Katherine"
##	[916]	"Katherine"	"Katherine"	"Jay"	"Jay"	"Jay"
##	[921]	"Filia"	"Christina"	"Christina"	"Keith"	"Keith"
##	[926]	"Logan"	"Logan"	"Anna"	"Anna"	"Anna"
##	[931]	"David"	"David"	"David"	"Emily"	"Mick"
##	[936]	"Mick"	"Mick"	"Mick"	"Bryan"	"Erin"
##	[941]	"Erin"	"Dianna"	"Dianna"	"Meg"	"Joni"
##	[946]	"Victoria"	"Victoria"	"Victoria"	"Tonja"	"Tonja"
##	[951]	"Sara"	"Raymond"	"Mick"	"Arthur"	"Arthur"
##	[956]	"Arthur"	"Max"	"Muhammed"	"Muhammed"	"Muhammed"
##	[961]	"Darren"	"Darren"	"Bryan"	"Bryan"	"Claudia"
##	[966]	"Claudia"	"Jill"	"Jill"	"Adrian"	"Joseph"
##	[971]	"Joseph"	"Joseph"	"Grace"	"Grace"	"Grace"
##	[976]	"Phillip"	"Heather"	"Heather"	"Frank"	"Brian"
##	[981]	"Brian"	"Stefania"	"Lauren"	"Lauren"	"Matt"
##	[986]	"Janet"	"Janet"	"Erin"	"Erin"	"Erin"
##	[991]	"Erin"	"Sue"	"Cathy"	"Neil"	"Bruce"
##	[996]	"Sara"	"Sara"	"George"	"Aaron"	"Aaron"
##	[1001]	"Raymond"	"Nicole"	"Barbara"	"Barbara"	"Barbara"
##	[1006]	"Barbara"	"Katharine"	"Frank"	"Frank"	"Jennifer"
##	[1011]	"Jennifer"	"Gary"	"Gary"	"Roy"	"Noah"
##	[1016]	"Noah"	"Cathy"	"Cathy"	"Charles"	"Michelle"
##	[1021]	"Michelle"	"Michelle"	"Benjamin"	"Mark"	"Caroline"
##	[1026]	"John"	"James"	"James"	"Cyra"	"Luke"
##	[1031]	"Luke"	"Luke"	"Chuck"	"Dan"	"Paul"
##	[1036]	"Erica"	"Erica"	"Tracy"	"Tracy"	"Dean"
##	[1041]	"Dean"	"Jeremy"	"Carol"	"Damala"	"Damala"
##	[1046]	"Damala"	"Michael"	"Roy"	"Roy"	"Rick"
##	[1051]	"Duane"	"Stewart"	"Frank"	"Frank"	"Erica"
##	[1056]	"Ann"	"Ann"	"Ann"	"Helen"	"Cathy"
##	[1061]	"Edward"	"Edward"	"Mary"	"Scot"	"Scot"
##	[1066]	"Naresj"	"Lindsay"	"Greg"	"Rick"	"Valerie"
##	[1071]	"Valerie"	"Valerie"	"Craig"	"Seth"	"Seth"
##	[1076]	"Lindsay"	"Lindsay"	"Nora"	"Joe"	"Joe"

## [1081]	"Ann"	"Ann"	"Ann"	"Ann"	"Ann"
## [1086]	"Ann"	"Ann"	"Robert"	"Robert"	"Robert"
## [1091]	"Robert"	"Robert"	"Robert"	"Robert"	"Robert"
## [1096]	"Dean"	"Dean"	"Dean"	"Bill"	"Max"
## [1101]	"Max"	"Joy"	"Joy"	"Joy"	"Alan"
## [1106]	"Alan"	"Alan"	"Allen"	"Kean"	"Kean"
## [1111]	"Muhammed"	"Nathan"	"Laurel"	"Laurel"	"Laurel"
## [1116]	"Christy"	"Adam"	"Adam"	"Adam"	"Adam"
## [1121]	"Christy"	"Clytie"	"Clytie"	"Clytie"	"Clytie"
## [1126]	"Clytie"	"Rick"	"Theone"	"Theone"	"Theone"
## [1131]	"Theone"	"Greg"	"Greg"	"Greg"	"Logan"
## [1136]	"Patrick"	"Caroline"	"Steven"	"Catherine"	"Arthur"
## [1141]	"Arthur"	"Roger"	"Maris"	"Maris"	"Victoria"
## [1146]	"Scott"	"Neola"	"Neola"	"Neola"	"Neola"
## [1151]	"Dorothy"	"Matt"	"Matt"	"Matt"	"Dennis"
## [1156]	"Dennis"	"Dennis"	"Erin"	"Bobby"	"Laura"
## [1161]	"Laura"	"Greg"	"Alex"	"Alex"	"Denny"
## [1166]	"John"	"Doug"	"Quincy"	"Carol"	"Carol"
## [1171]	"Rick"	"Sanjit"	"Toby"	"Toby"	"Carol"
## [1176]	"Barry"	"Barry"	"Barry"	"Barry"	"Barry"
## [1181]	"Justin"	"Justin"	"Sean"	"Tom"	"Dean"
## [1186]	"Dean"	"Michael"	"Chad"	"John"	"John"
## [1191]	"Allen"	"Allen"	"Liz"	"Liz"	"Liz"
## [1196]	"Jim"	"Jim"	"Jim"	"Filia"	"Sarah"
## [1201]	"Sarah"	"Patrick"	"Christine"	"Barry"	"Ben"
## [1206]	"Ricardo"	"Theresa"	"Theresa"	"Valerie"	"Valerie"
## [1211]	"Valerie"	"Jeremy"	"Jeremy"	"Dionis"	"Meg"
## [1216]	"Meg"	"Ben"	"Michael"	"Susan"	"Becky"
## [1221]	"Becky"	"Becky"	"Becky"	"Becky"	"Elizabeth"
## [1226]	"Elizabeth"	"Elizabeth"	"Elizabeth"	"Elizabeth"	"Elizabeth"
## [1231]	"Bradley"	"Helen"	"Karen"	"Karen"	"Karen"
## [1236]	"Karen"	"Brendan"	"Brendan"	"Brendan"	"Kristina"
## [1241]	"Justin"	"Laura"	"Laura"	"Robert"	"Robert"
## [1246]	"Kelly"	"Chris"	"Chris"	"Rick"	"Rick"
## [1251]	"Jim"	"Debra"	"Gary"	"Gary"	"Carl"
## [1256]	"Adam"	"Adam"	"Erica"	"Michael"	"Kelly"
## [1261]	"Kelly"	"Michael"	"Barry"	"Barry"	"Barry"
## [1266]	"Barry"	"Theone"	"Maxwell"	"Maxwell"	"Katherine"
## [1271]	"Brad"	"Brad"	"Brad"	"Christina"	"Christina"
## [1276]	"Christina"	"Christina"	"Christina"	"Dennis"	"Dennis"
## [1281]	"Speros"	"Speros"	"Speros"	"Speros"	"Tamara"
## [1286]	"Tamara"	"Bill"	"Ann"	"Eleni"	"Joseph"
## [1291]	"Joseph"	"Troy"	"Paul"	"Michelle"	"Michelle"
## [1296]	"Linda"	"Matt"	"Chuck"	"Chuck"	"Chuck"
## [1301]	"Chuck"	"Mike"	"Mike"	"Mike"	"Mike"
## [1306]	"Carlos"	"Carlos"	"Carlos"	"Phillip"	"Phillip"
## [1311]	"Phillip"	"Phillip"	"Greg"	"Dan"	"Frank"
## [1316]	"Frank"	"Alan"	"Kristina"	"Kristina"	"Kristina"
## [1321]	"Kristina"	"Claudia"	"Claudia"	"Claudia"	"Tim"
## [1326]	"Tim"	"Katherine"	"John"	"Kean"	"Kean"
## [1331]	"Sonia"	"Bryan"	"Bryan"	"Bill"	"Dan"
## [1336]	"Luke"	"Luke"	"Luke"	"Ralph"	"Ken"
## [1341]	"Ken"	"Ken"	"Richard"	"Maribeth"	"Maribeth"
## [1346]	"Arthur"	"Kelly"	"Daniel"	"Brenda"	"Brenda"

## [1351]	"Nora"	"Peter"	"Dorothy"	"Cynthia"	"Cynthia"
## [1356]	"Cynthia"	"Cynthia"	"Cynthia"	"Cynthia"	"Thomas"
## [1361]	"Thomas"	"Thomas"	"Thomas"	"Thomas"	"Daniel"
## [1366]	"Don"	"Don"	"Don"	"Don"	"Dionis"
## [1371]	"Lori"	"Seth"	"Seth"	"Seth"	"Eleni"
## [1376]	"Eleni"	"Ken"	"Nicole"	"Anne"	"Anne"
## [1381]	"Joel"	"Barry"	"Sanjit"	"Roland"	"Roland"
## [1386]	"Edward"	"Edward"	"Edward"	"Edward"	"Tom"
## [1391]	"Tom"	"Tom"	"Tom"	"Sally"	"Alan"
## [1396]	"Alan"	"Alan"	"Alan"	"Alan"	"Alan"
## [1401]	"Alan"	"Pete"	"Harold"	"Deirdre"	"Deirdre"
## [1406]	"Craig"	"Herbert"	"Herbert"	"Herbert"	"Hunter"
## [1411]	"Hunter"	"Nancy"	"Nancy"	"Rick"	"Rick"
## [1416]	"Rick"	"Rick"	"Toby"	"Doug"	"Doug"
## [1421]	"Stewart"	"Mick"	"Mick"	"Mick"	"Mick"
## [1426]	"Mick"	"Carol"	"Karl"	"Karl"	"Ralph"
## [1431]	"Yoseph"	"Russell"	"Charles"	"Chad"	"Chad"
## [1436]	"Anthony"	"Bobby"	"Sean"	"Sean"	"Sean"
## [1441]	"Sean"	"Sean"	"Resi"	"Joy"	"Alejandro"
## [1446]	"Alejandro"	"Alejandro"	"Charles"	"Stewart"	"Julie"
## [1451]	"Dean"	"Neil"	"Neil"	"Paul"	"Paul"
## [1456]	"Paul"	"Robert"	"Robert"	"Michael"	"Michael"
## [1461]	"Michael"	"Jennifer"	"Brian"	"Rob"	"Max"
## [1466]	"Joel"	"Luke"	"Luke"	"Luke"	"Michael"
## [1471]	"Deborah"	"Rob"	"Justin"	"Justin"	"Becky"
## [1476]	"Carol"	"Tracy"	"Maria"	"Thomas"	"Lisa"
## [1481]	"Mike"	"Mike"	"Mike"	"Eugene"	"Eugene"
## [1486]	"Eugene"	"Eugene"	"Eugene"	"Eugene"	"Greg"
## [1491]	"Michelle"	"Shahid"	"Kean"	"Kean"	"Philisse"
## [1496]	"Philisse"	"Andy"	"Andy"	"Andy"	"Andy"
## [1501]	"Corey-Lock"	"Corey-Lock"	"Jill"	"Jill"	"Jill"
## [1506]	"Jill"	"Michael"	"Pete"	"Craig"	"Allen"
## [1511]	"James"	"Sanjit"	"Joy"	"Amy"	"Amy"
## [1516]	"Meg"	"Robert"	"Brian"	"Brian"	"Brian"
## [1521]	"Aaron"	"Zuschuss"	"Karen"	"Karen"	"Karen"
## [1526]	"Benjamin"	"Chuck"	"Chuck"	"Doug"	"Tony"
## [1531]	"Tony"	"Nick"	"Nick"	"Nick"	"Sean"
## [1536]	"Sean"	"Todd"	"Hilary"	"Hilary"	"Hilary"
## [1541]	"Jim"	"Jim"	"Jim"	"Jim"	"Jim"
## [1546]	"Eugene"	"Becky"	"Chad"	"Lindsay"	"Lindsay"
## [1551]	"Lindsay"	"Lindsay"	"Lindsay"	"Lindsay"	"John"
## [1556]	"Craig"	"Raymond"	"Raymond"	"Anthony"	"Cari"
## [1561]	"Cari"	"Anthony"	"Ross"	"Keith"	"Natalie"
## [1566]	"Natalie"	"Natalie"	"Natalie"	"Suzanne"	"Brian"
## [1571]	"Brian"	"Brian"	"Brian"	"Tamara"	"Tamara"
## [1576]	"Ken"	"Justin"	"Justin"	"Daniel"	"Rob"
## [1581]	"Michelle"	"Jack"	"Jack"	"Corinna"	"Fred"
## [1586]	"Natalie"	"Natalie"	"Natalie"	"Jack"	"Roy"
## [1591]	"Sarah"	"Sarah"	"Ben"	"Ben"	"Ben"
## [1596]	"Sanjit"	"Sanjit"	"Matt"	"Bruce"	"Matt"
## [1601]	"Matt"	"Chris"	"Chris"	"Ruben"	"Damala"
## [1606]	"Damala"	"Laurel"	"Candace"	"Thomas"	"Thomas"
## [1611]	"Thomas"	"Randy"	"Jill"	"Jill"	"Evan"
## [1616]	"Evan"	"Victoria"	"Victoria"	"Kean"	"Sarah"



## [1621]	"Penelope"	"Kalyca"	"Kalyca"	"Greg"	"Greg"
## [1626]	"Greg"	"Greg"	"Greg"	"Kean"	"Kean"
## [1631]	"Maya"	"Art"	"Julie"	"Julie"	"Rob"
## [1636]	"Rob"	"Rob"	"Rob"	"Jason"	"Clytie"
## [1641]	"Clytie"	"Keith"	"Corinna"	"Emily"	"Emily"
## [1646]	"Mitch"	"Carlos"	"Carlos"	"Carlos"	"Carlos"
## [1651]	"Carlos"	"Stefania"	"Stefania"	"Stefania"	"Stefania"
## [1656]	"Stefania"	"Grant"	"Karen"	"Karen"	"Karen"
## [1661]	"Karen"	"Karen"	"Karen"	"Karen"	"Gary"
## [1666]	"Gary"	"Gary"	"Patrick"	"Patrick"	"Patrick"
## [1671]	"Patrick"	"Patrick"	"Brian"	"Christine"	"Christine"
## [1676]	"Christine"	"Dean"	"Dean"	"Mark"	"Liz"
## [1681]	"Brian"	"Brian"	"Natalie"	"Natalie"	"Toby"
## [1686]	"Bruce"	"Bruce"	"Sean"	"Sean"	"Sean"
## [1691]	"Sean"	"Cindy"	"Philisse"	"Philisse"	"Tamara"
## [1696]	"Stefania"	"Maribeth"	"Maribeth"	"Maribeth"	"Dean"
## [1701]	"Dean"	"Dean"	"Dean"	"Dean"	"Duane"
## [1706]	"Matthew"	"Matthew"	"Evan"	"Carl"	"Karen"
## [1711]	"Karen"	"Karen"	"Dave"	"Dave"	"Dave"
## [1716]	"Dave"	"Laura"	"Henia"	"Charlotte"	"Laurel"
## [1721]	"Laurel"	"Laurel"	"Laurel"	"Jeremy"	"Greg"
## [1726]	"Greg"	"Greg"	"Greg"	"Greg"	"Sonia"
## [1731]	"Sonia"	"Clay"	"Deanra"	"Deanra"	"Sam"
## [1736]	"Sam"	"Sam"	"Luke"	"Luke"	"Luke"
## [1741]	"Alan"	"Alan"	"Neoma"	"Neoma"	"Ryan"
## [1746]	"Ryan"	"Ryan"	"Phillina"	"Kelly"	"Justin"
## [1751]	"Justin"	"Jack"	"Laurel"	"Emily"	"Alan"
## [1756]	"Adam"	"Adam"	"Adam"	"Adam"	"Adam"
## [1761]	"Elizabeth"	"Kelly"	"Heather"	"Natalie"	"Edward"
## [1766]	"Edward"	"Edward"	"Michael"	"Ross"	"Ross"
## [1771]	"Maria"	"Maria"	"Maria"	"Frank"	"Patrick"
## [1776]	"Patrick"	"Clay"	"Clay"	"Tony"	"Tony"
## [1781]	"Maribeth"	"Maribeth"	"Maribeth"	"Maribeth"	"Guy"
## [1786]	"Guy"	"Robert"	"Daniel"	"Jim"	"Jim"
## [1791]	"Jim"	"Jim"	"Dave"	"Keith"	"Keith"
## [1796]	"Keith"	"Keith"	"Aleksandra"	"Mick"	"Amy"
## [1801]	"Frank"	"Frank"	"Ralph"	"James"	"Nick"
## [1806]	"Nick"	"Kalyca"	"Logan"	"Logan"	"Logan"
## [1811]	"Logan"	"Nora"	"Randy"	"Randy"	"Tracy"
## [1816]	"Tracy"	"Tracy"	"John"	"Becky"	"Becky"
## [1821]	"Becky"	"Becky"	"Joseph"	"Corey"	"Corey"
## [1826]	"Darren"	"Darren"	"Paul"	"Paul"	"Paul"
## [1831]	"Paul"	"Paul"	"Paul"	"Paul"	"Paul"
## [1836]	"Paul"	"Michael"	"Michael"	"Michael"	"Michael"
## [1841]	"Vicky"	"Vicky"	"Marc"	"Marc"	"Dean"
## [1846]	"Dean"	"Dean"	"Dean"	"Ashley"	"Christine"
## [1851]	"Dorothy"	"Edward"	"Edward"	"Edward"	"Jennifer"
## [1856]	"Brian"	"Brian"	"Brian"	"Brian"	"Brian"
## [1861]	"Brian"	"Brian"	"Brian"	"Brian"	"Jasper"
## [1866]	"Dean"	"Denny"	"Denny"	"Frank"	"Frank"
## [1871]	"Frank"	"Frank"	"Quincy"	"Quincy"	"Quincy"
## [1876]	"Tony"	"Odella"	"Alan"	"Ann"	"Maureen"
## [1881]	"Dave"	"Dave"	"Dave"	"Dave"	"Edward"
## [1886]	"Saphhira"	"Saphhira"	"Saphhira"	"Roland"	"Roland"

## [1891]	"Joni"	"Joni"	"Jim"	"Jim"	"Jesus"
## [1896]	"Theone"	"Theone"	"Brendan"	"Alejandro"	"Alejandro"
## [1901]	"Frank"	"Maureen"	"Sue"	"Sally"	"Janet"
## [1906]	"Janet"	"Janet"	"Ken"	"Ken"	"Ken"
## [1911]	"Ken"	"Ken"	"Logan"	"Logan"	"Logan"
## [1916]	"William"	"William"	"William"	"Arthur"	"Russell"
## [1921]	"Russell"	"Dan"	"George"	"Chloris"	"Theresa"
## [1926]	"Theresa"	"Michelle"	"Dario"	"Dario"	"Joel"
## [1931]	"Ken"	"Ken"	"Roland"	"Jay"	"Anna"
## [1936]	"Anna"	"Anna"	"Pete"	"Nathan"	"Zuschuss"
## [1941]	"Zuschuss"	"Natalie"	"Natalie"	"Natalie"	"Harry"
## [1946]	"Harry"	"Harry"	"Harry"	"Craig"	"Craig"
## [1951]	"Craig"	"John"	"Rick"	"Rick"	"Rick"
## [1956]	"Rick"	"Lycoris"	"Muhammed"	"Muhammed"	"Jim"
## [1961]	"Jim"	"Kunst"	"Kunst"	"Kunst"	"Kunst"
## [1966]	"Katrina"	"Todd"	"Todd"	"Todd"	"Todd"
## [1971]	"Todd"	"Sam"	"Joel"	"Joel"	"Michael"
## [1976]	"Duane"	"Guy"	"Gary"	"Gary"	"Darrin"
## [1981]	"Darrin"	"Darrin"	"Toby"	"Julie"	"Julie"
## [1986]	"Nathan"	"Nathan"	"Darrin"	"Darrin"	"Emily"
## [1991]	"John"	"John"	"Peter"	"Peter"	"Sanjit"
## [1996]	"David"	"David"	"Stuart"	"Shahid"	"Sylvia"
## [2001]	"Maureen"	"Christopher"	"Valerie"	"Valerie"	"Valerie"
## [2006]	"Valerie"	"Valerie"	"Valerie"	"Valerie"	"Valerie"
## [2011]	"Adrian"	"Muhammed"	"Muhammed"	"Maris"	"Maris"
## [2016]	"Maris"	"Maris"	"Maris"	"Keith"	"Keith"
## [2021]	"Roland"	"Sean"	"Sean"	"Bradley"	"Bradley"
## [2026]	"Bradley"	"Janet"	"David"	"Dana"	"Chris"
## [2031]	"Chris"	"Khloe"	"Khloe"	"Khloe"	"Michael"
## [2036]	"Steven"	"Jill"	"Cari"	"Susan"	"Katrina"
## [2041]	"Katrina"	"George"	"George"	"Suzanne"	"Suzanne"
## [2046]	"Suzanne"	"Suzanne"	"Suzanne"	"Suzanne"	"Darren"
## [2051]	"Lena"	"Lena"	"Xylona"	"Cari"	"Dana"
## [2056]	"Suzanne"	"Suzanne"	"Suzanne"	"Lynn"	"Katrina"
## [2061]	"Katrina"	"Matthew"	"Matthew"	"Dean"	"Linda"
## [2066]	"Linda"	"Linda"	"Lena"	"Thomas"	"Thomas"
## [2071]	"Thomas"	"John"	"Katrina"	"Katrina"	"Katrina"
## [2076]	"Sanjit"	"Sanjit"	"Sanjit"	"Sanjit"	"Zuschuss"
## [2081]	"Zuschuss"	"Zuschuss"	"Rick"	"Jay"	"Jay"
## [2086]	"Dorothy"	"Marc"	"Marc"	"Dionis"	"Dionis"
## [2091]	"Dionis"	"Dionis"	"Noah"	"Noah"	"Amy"
## [2096]	"Toby"	"Toby"	"Toby"	"Toby"	"Michael"
## [2101]	"Liz"	"Liz"	"Liz"	"Denny"	"Ann"
## [2106]	"Karl"	"Karl"	"Ted"	"Ted"	"Paul"
## [2111]	"Paul"	"Dorothy"	"Keith"	"Ralph"	"Ralph"
## [2116]	"Sonia"	"John"	"Eugene"	"Eugene"	"Eugene"
## [2121]	"Tom"	"Randy"	"Jay"	"Jay"	"Eileen"
## [2126]	"Roland"	"Roland"	"Bill"	"Ben"	"Joe"
## [2131]	"Cyra"	"Cyra"	"Cyra"	"Aleksandra"	"Charles"
## [2136]	"Susan"	"Susan"	"Tom"	"Sarah"	"Ellis"
## [2141]	"William"	"Steven"	"Vivek"	"Linda"	"Linda"
## [2146]	"Linda"	"Linda"	"Linda"	"Matt"	"Matt"
## [2151]	"Neil"	"Michael"	"Maria"	"Ken"	"Michelle"
## [2156]	"Michelle"	"Maria"	"Maria"	"Jonathan"	"Lindsay"

## [2161]	"Lindsay"	"Lindsay"	"Shirley"	"Troy"	"Troy"
## [2166]	"Troy"	"Ken"	"Emily"	"Emily"	"Emily"
## [2171]	"Emily"	"Emily"	"Anne"	"Stefanie"	"Laura"
## [2176]	"Tiffany"	"Patrick"	"Patrick"	"Natalie"	"Natalie"
## [2181]	"Natalie"	"Magdelene"	"Magdelene"	"Mark"	"Mark"
## [2186]	"Jack"	"Jack"	"Alex"	"Alex"	"Michael"
## [2191]	"Rose"	"Rose"	"Ralph"	"Ralph"	"Ralph"
## [2196]	"Christine"	"Lauren"	"Nat"	"Nat"	"Nat"
## [2201]	"Nat"	"Nat"	"Helen"	"Helen"	"Michelle"
## [2206]	"Michelle"	"Michelle"	"Lena"	"Lena"	"Sean"
## [2211]	"Beth"	"Beth"	"Beth"	"Paul"	"Paul"
## [2216]	"Trudy"	"Trudy"	"Russell"	"Russell"	"Russell"
## [2221]	"Russell"	"Bart"	"Bart"	"Gary"	"Gary"
## [2226]	"Gary"	"Roy"	"Clay"	"Mitch"	"Mitch"
## [2231]	"Barbara"	"Barbara"	"Barbara"	"Steve"	"Steve"
## [2236]	"Toby"	"Toby"	"Toby"	"Jennifer"	"Alan"
## [2241]	"Alan"	"Ken"	"Mark"	"Erin"	"Greg"
## [2246]	"Sanjit"	"Todd"	"Todd"	"Todd"	"Todd"
## [2251]	"Todd"	"David"	"Clay"	"Liz"	"Arthur"
## [2256]	"Arthur"	"Arthur"	"Arthur"	"Arthur"	"Christy"
## [2261]	"Christy"	"Christy"	"Meg"	"Meg"	"Dennis"
## [2266]	"Dennis"	"Dennis"	"Dennis"	"Steven"	"Steven"
## [2271]	"Steven"	"Steven"	"Logan"	"Logan"	"Logan"
## [2276]	"Anna"	"Anna"	"Anna"	"Anna"	"Ann"
## [2281]	"Ann"	"Matt"	"Sanjit"	"Darrin"	"Darrin"
## [2286]	"Darrin"	"Darrin"	"Darrin"	"Darrin"	"Noel"
## [2291]	"Xylona"	"Xylona"	"Xylona"	"Xylona"	"Cathy"
## [2296]	"Janet"	"Joe"	"Joe"	"Joe"	"Joe"
## [2301]	"Craig"	"Craig"	"Giulietta"	"Georgia"	"Filia"
## [2306]	"Filia"	"Michael"	"Michael"	"Ben"	"Ben"
## [2311]	"Ben"	"Ben"	"Ben"	"Ben"	"Vivek"
## [2316]	"Kalyca"	"Kalyca"	"Nathan"	"Nathan"	"Alejandro"
## [2321]	"Matthew"	"Matthew"	"Matthew"	"Matthew"	"Sanjit"
## [2326]	"Anthony"	"Aaron"	"Allen"	"Anne"	"Joy"
## [2331]	"Tom"	"Nancy"	"Nancy"	"Nancy"	"Nancy"
## [2336]	"Nancy"	"Nancy"	"Mike"	"Mike"	"Mike"
## [2341]	"Mike"	"Mike"	"Mike"	"Tony"	"Matthew"
## [2346]	"Matthew"	"Michael"	"Michael"	"Michael"	"Katharine"
## [2351]	"Stewart"	"Stewart"	"Stewart"	"Stewart"	"Stewart"
## [2356]	"Stewart"	"Stewart"	"Patrick"	"Amy"	"Amy"
## [2361]	"Ken"	"Ken"	"Dorothy"	"Dorothy"	"Dorothy"
## [2366]	"Ken"	"Ken"	"Ken"	"Ken"	"Alejandro"
## [2371]	"Jason"	"Jason"	"Jason"	"Jason"	"Jason"
## [2376]	"Richard"	"Mike"	"George"	"George"	"George"
## [2381]	"George"	"Hunter"	"Becky"	"Carol"	"Deanra"
## [2386]	"Nick"	"Christine"	"Jeremy"	"Laurel"	"Laurel"
## [2391]	"Mike"	"Mike"	"Lena"	"Susan"	"Richard"
## [2396]	"Richard"	"Richard"	"Richard"	"Dorris"	"Penelope"
## [2401]	"Theresa"	"Clytie"	"Michael"	"Michael"	"Michael"
## [2406]	"Michael"	"Michael"	"Michael"	"Michael"	"Mark"
## [2411]	"Mark"	"Nathan"	"Nathan"	"Nathan"	"Phillip"
## [2416]	"Richard"	"Richard"	"Eugene"	"Eugene"	"Eugene"
## [2421]	"Trudy"	"Maureen"	"Maureen"	"Maureen"	"Maureen"
## [2426]	"Liz"	"Peter"	"Peter"	"Nick"	"Chloris"

## [2431]	"Chloris"	"Chloris"	"Mike"	"Mary"	"Alan"
## [2436]	"Alan"	"Katherine"	"Katherine"	"Filia"	"Zuschuss"
## [2441]	"Zuschuss"	"Zuschuss"	"Karen"	"Dennis"	"Brian"
## [2446]	"Brian"	"Brian"	"Ivan"	"Ivan"	"Ivan"
## [2451]	"Liz"	"Joseph"	"Joseph"	"Joseph"	"Joy"
## [2456]	"Bill"	"Bill"	"Denise"	"Nathan"	"Alan"
## [2461]	"Michael"	"Thomas"	"Thomas"	"Thomas"	"Kelly"
## [2466]	"Penelope"	"Justin"	"Alan"	"Alan"	"Alan"
## [2471]	"Rob"	"Rob"	"Rob"	"Adam"	"Irene"
## [2476]	"Cyma"	"Allen"	"Craig"	"Craig"	"Craig"
## [2481]	"Arthur"	"Arthur"	"Henry"	"Robert"	"Robert"
## [2486]	"Robert"	"Sam"	"Lisa"	"Lisa"	"Lisa"
## [2491]	"Todd"	"Sean"	"Sean"	"Sean"	"Thea"
## [2496]	"Thea"	"Shahid"	"Shahid"	"Shahid"	"Mary"
## [2501]	"Jeremy"	"Jeremy"	"Jeremy"	"Roland"	"Roland"
## [2506]	"Roland"	"Roland"	"Christina"	"Vivek"	"Vivek"
## [2511]	"Vivek"	"Brenda"	"Brenda"	"Hallie"	"Scott"
## [2516]	"Scott"	"Emily"	"Todd"	"Todd"	"Todd"
## [2521]	"Arianne"	"Arianne"	"Arianne"	"John"	"John"
## [2526]	"James"	"James"	"James"	"Sally"	"Luke"
## [2531]	"Cari"	"Cari"	"Kelly"	"Andrew"	"Andrew"
## [2536]	"Tom"	"Christina"	"Joseph"	"Anthony"	"Bill"
## [2541]	"Bill"	"Bill"	"Don"	"Don"	"Anna"
## [2546]	"Anna"	"John"	"Eugene"	"Zuschuss"	"Zuschuss"
## [2551]	"Xylona"	"Xylona"	"Darren"	"Chris"	"Chris"
## [2556]	"Chris"	"Chris"	"Alex"	"Alex"	"Richard"
## [2561]	"Richard"	"Tamara"	"Tamara"	"Tamara"	"Eugene"
## [2566]	"Candace"	"Harry"	"Katherine"	"Cassandra"	"Jack"
## [2571]	"Jack"	"Pete"	"Stewart"	"Kelly"	"Kelly"
## [2576]	"Becky"	"Patrick"	"Anna"	"Dean"	"Sung"
## [2581]	"Sung"	"Dorris"	"Dorris"	"Lisa"	"Lisa"
## [2586]	"Lisa"	"Alan"	"Kean"	"Kean"	"Kean"
## [2591]	"Pauline"	"Mick"	"Bill"	"Darren"	"Tony"
## [2596]	"Tony"	"Darrin"	"Darrin"	"Anna"	"Anna"
## [2601]	"Anna"	"Alan"	"Joni"	"Benjamin"	"Benjamin"
## [2606]	"Benjamin"	"Nathan"	"Nathan"	"Nathan"	"Stephanie"
## [2611]	"Stephanie"	"Don"	"Dan"	"Dean"	"Dean"
## [2616]	"Dean"	"Dean"	"Dean"	"Dean"	"Dean"
## [2621]	"Tamara"	"Tracy"	"Tracy"	"Scott"	"Lycoris"
## [2626]	"Mike"	"Brian"	"Christina"	"Steven"	"Chris"
## [2631]	"Chris"	"Lena"	"Yoseph"	"Yoseph"	"Craig"
## [2636]	"Aaron"	"Aaron"	"Andy"	"Sonia"	"Sonia"
## [2641]	"Sonia"	"Dorothy"	"Noah"	"Carlos"	"Larry"
## [2646]	"Robert"	"Robert"	"Don"	"Don"	"Don"
## [2651]	"Evan"	"Toby"	"Arianne"	"Jessica"	"Jessica"
## [2656]	"Jessica"	"Bill"	"Dan"	"Dan"	"Tom"
## [2661]	"Tom"	"Tom"	"Tom"	"Patrick"	"Matt"
## [2666]	"Matt"	"Bruce"	"Bruce"	"Pete"	"Pete"
## [2671]	"Thomas"	"Bruce"	"Toby"	"Toby"	"Toby"
## [2676]	"Toby"	"Shui"	"Dean"	"Karen"	"Karen"
## [2681]	"Justin"	"Tony"	"Tony"	"Tony"	"Yoseph"
## [2686]	"Dean"	"Dean"	"Dean"	"Shirley"	"Stephanie"
## [2691]	"Stephanie"	"Stephanie"	"Stephanie"	"Erin"	"Erin"
## [2696]	"Erin"	"Erin"	"Erin"	"Roy"	"Jennifer"

## [2701]	"Jennifer"	"Jennifer"	"Darrin"	"Charlotte"	"Natalie"
## [2706]	"Natalie"	"Natalie"	"Clay"	"Stephanie"	"Sample"
## [2711]	"Sample"	"Michelle"	"Adrian"	"Adrian"	"Craig"
## [2716]	"Craig"	"Jason"	"Jason"	"Chloris"	"Chloris"
## [2721]	"Chloris"	"Roger"	"Kalyca"	"Kalyca"	"Kalyca"
## [2726]	"Kalyca"	"Kalyca"	"Amy"	"Anthony"	"Brosina"
## [2731]	"Julie"	"Julie"	"Justin"	"Justin"	"Fred"
## [2736]	"Matt"	"Patrick"	"Lisa"	"Lisa"	"Max"
## [2741]	"Doug"	"Mark"	"Michael"	"Michael"	"Brian"
## [2746]	"Brian"	"Brian"	"Brian"	"Brian"	"Brian"
## [2751]	"Brian"	"Philisse"	"Philisse"	"Philisse"	"Philisse"
## [2756]	"Philisse"	"Dianna"	"Anna"	"Jim"	"Chris"
## [2761]	"Chris"	"Chris"	"Ricardo"	"Ricardo"	"Ricardo"
## [2766]	"Ben"	"Ben"	"Michelle"	"Ed"	"Ruben"
## [2771]	"Maria"	"Erica"	"Erica"	"Frank"	"Frank"
## [2776]	"Frank"	"Frank"	"Mark"	"Jane"	"Jane"
## [2781]	"Jane"	"Edward"	"Edward"	"Lynn"	"Lynn"
## [2786]	"Barry"	"Chris"	"Jill"	"Roger"	"Roger"
## [2791]	"Roger"	"Shahid"	"Keith"	"Paul"	"Paul"
## [2796]	"Zuschuss"	"Dean"	"Dean"	"Dean"	"Marina"
## [2801]	"Matt"	"Matt"	"Matt"	"Lisa"	"Lisa"
## [2806]	"Lisa"	"Bill"	"Charles"	"Charles"	"Charles"
## [2811]	"Charles"	"Bryan"	"Jim"	"Doug"	"Rick"
## [2816]	"Rick"	"Susan"	"Rick"	"Rick"	"Rick"
## [2821]	"Rick"	"Mike"	"Evan"	"Joy"	"Joy"
## [2826]	"Joy"	"Joy"	"Joy"	"Joy"	"Erica"
## [2831]	"Erica"	"Erica"	"Noel"	"Noel"	"Allen"
## [2836]	"Scot"	"Katherine"	"George"	"Clay"	"Clay"
## [2841]	"Clay"	"Clay"	"Clay"	"Karen"	"Karen"
## [2846]	"Andy"	"Andy"	"Andy"	"Andy"	"Brian"
## [2851]	"Hunter"	"Hunter"	"Cassandra"	"Linda"	"Darrin"
## [2856]	"Darrin"	"Ann"	"Ann"	"Liz"	"Tim"
## [2861]	"Angele"	"Saphhira"	"Tamara"	"Paul"	"Patrick"
## [2866]	"Patrick"	"Anna"	"Anna"	"Anna"	"Anna"
## [2871]	"Frank"	"Frank"	"Tracy"	"Adam"	"Adam"
## [2876]	"Cathy"	"Patrick"	"Patrick"	"Patrick"	"Patrick"
## [2881]	"Justin"	"Christy"	"Shirley"	"Saphhira"	"Saphhira"
## [2886]	"Saphhira"	"Erica"	"Aaron"	"Evan"	"Evan"
## [2891]	"Thomas"	"Alan"	"Anthony"	"Thomas"	"Kristina"
## [2896]	"Kristina"	"Frank"	"Guy"	"Nathan"	"Jamie"
## [2901]	"Jamie"	"Jamie"	"Jamie"	"Greg"	"Khloe"
## [2906]	"Patrick"	"Patrick"	"Anna"	"Jason"	"Raymond"
## [2911]	"Eileen"	"Rob"	"Cynthia"	"Alex"	"Alex"
## [2916]	"Gary"	"Matt"	"Matt"	"Matt"	"Matt"
## [2921]	"Matt"	"Matt"	"Matt"	"Erica"	"Rick"
## [2926]	"Michael"	"Mark"	"Mark"	"Nick"	"Nick"
## [2931]	"Nick"	"Giulietta"	"Giulietta"	"Giulietta"	"Giulietta"
## [2936]	"Giulietta"	"Giulietta"	"Giulietta"	"Giulietta"	"Giulietta"
## [2941]	"Maria"	"Maria"	"Alan"	"Mark"	"Darren"
## [2946]	"Darren"	"Jeremy"	"Jeremy"	"Patrick"	"Bradley"
## [2951]	"Bradley"	"Natalie"	"Jennifer"	"Jennifer"	"Jennifer"
## [2956]	"Jennifer"	"Jennifer"	"Alyssa"	"Toby"	"Helen"
## [2961]	"Helen"	"Logan"	"Katrina"	"Katrina"	"Katrina"
## [2966]	"Maris"	"Maris"	"Maris"	"Maris"	"Matt"

## [2971]	"Valerie"	"Valerie"	"Victoria"	"Grace"	"Alyssa"
## [2976]	"Anthony"	"John"	"Ralph"	"Rose"	"Lisa"
## [2981]	"Michael"	"Yana"	"Jonathan"	"Annie"	"Annie"
## [2986]	"Robert"	"Robert"	"Brenda"	"Brenda"	"Brenda"
## [2991]	"Alejandro"	"Dennis"	"Dennis"	"Dennis"	"Dennis"
## [2996]	"Dennis"	"Dennis"	"Dennis"	"Jonathan"	"Jamie"
## [3001]	"Jamie"	"Nicole"	"Nicole"	"Max"	"Annie"
## [3006]	"Annie"	"Randy"	"Sarah"	"Alan"	"Neil"
## [3011]	"Arianne"	"Tracy"	"Tracy"	"Tracy"	"Tracy"
## [3016]	"Tracy"	"Tracy"	"Liz"	"Nat"	"Nat"
## [3021]	"Nat"	"Nat"	"Nat"	"Nat"	"Edward"
## [3026]	"Edward"	"Sung"	"Sibella"	"Ross"	"Duane"
## [3031]	"Nona"	"Nona"	"Xylona"	"Xylona"	"Xylona"
## [3036]	"Xylona"	"Xylona"	"Xylona"	"Xylona"	"Xylona"
## [3041]	"Mark"	"Mark"	"Bruce"	"Eugene"	"Eugene"
## [3046]	"Rick"	"Patrick"	"Arthur"	"Beth"	"Harry"
## [3051]	"Brendan"	"Brendan"	"Joy"	"Chris"	"Chris"
## [3056]	"Chris"	"Chris"	"Frank"	"Sanjit"	"Chloris"
## [3061]	"Chloris"	"Chloris"	"Darrin"	"Darrin"	"Darrin"
## [3066]	"Sue"	"Tracy"	"Julie"	"Chuck"	"Chuck"
## [3071]	"Chuck"	"Laura"	"Laura"	"Arthur"	"Benjamin"
## [3076]	"Dennis"	"Dennis"	"Pauline"	"Troy"	"Troy"
## [3081]	"Tim"	"Pete"	"Pete"	"Tonja"	"Tonja"
## [3086]	"Erica"	"Erica"	"Erica"	"Patrick"	"Brian"
## [3091]	"Erin"	"Erin"	"Stephanie"	"Stephanie"	"Anthony"
## [3096]	"Anthony"	"Anthony"	"Frank"	"Frank"	"Frank"
## [3101]	"Keith"	"Keith"	"Keith"	"Shirley"	"Shirley"
## [3106]	"Shirley"	"Shirley"	"Liz"	"Liz"	"Liz"
## [3111]	"Victoria"	"Lela"	"Sibella"	"Sibella"	"David"
## [3116]	"David"	"David"	"Frank"	"Frank"	"Frank"
## [3121]	"Frank"	"Rick"	"Rick"	"Rick"	"Rick"
## [3126]	"Rick"	"Andy"	"Andy"	"Andy"	"Chad"
## [3131]	"Chad"	"Chad"	"Chad"	"Carol"	"Bradley"
## [3136]	"Michael"	"Michael"	"Theone"	"Theone"	"Theone"
## [3141]	"Greg"	"Greg"	"Fred"	"Fred"	"Lindsay"
## [3146]	"Lindsay"	"Lindsay"	"Lindsay"	"Lindsay"	"Edward"
## [3151]	"Damala"	"Damala"	"Scott"	"Carol"	"Carol"
## [3156]	"Carol"	"Carol"	"Cassandra"	"Cassandra"	"Kunst"
## [3161]	"Kunst"	"Kunst"	"Kunst"	"Roger"	"Barry"
## [3166]	"Barry"	"Ed"	"Ed"	"Rose"	"Mitch"
## [3171]	"MaryBeth"	"MaryBeth"	"MaryBeth"	"Juliana"	"Juliana"
## [3176]	"Mike"	"Mike"	"Mike"	"Cathy"	"Cathy"
## [3181]	"Cathy"	"Cathy"	"Victoria"	"Victoria"	"Paul"
## [3186]	"Paul"	"Tom"	"Katherine"	"Denny"	"Denny"
## [3191]	"Denny"	"Olvera"	"Olvera"	"John"	"Cynthia"
## [3196]	"Cynthia"	"Cynthia"	"Cynthia"	"Mick"	"Robert"
## [3201]	"Sean"	"Tamara"	"Denise"	"Denise"	"Denise"
## [3206]	"Denise"	"Shirley"	"Ted"	"Ted"	"Ted"
## [3211]	"Dennis"	"Deanra"	"Mick"	"Mick"	"Jamie"
## [3216]	"Shaun"	"Shaun"	"Shaun"	"Sheri"	"Pauline"
## [3221]	"Dave"	"Dave"	"Barry"	"Denny"	"Darren"
## [3226]	"Rob"	"Rob"	"Rob"	"Sarah"	"Sarah"
## [3231]	"Sarah"	"Charles"	"Julie"	"Nick"	"Nick"
## [3236]	"Mick"	"Mick"	"Mick"	"Laurel"	"Laurel"

## [3241]	"Laurel"	"Laurel"	"Laurel"	"Keith"	"Robert"
## [3246]	"Giulietta"	"Ed"	"Ed"	"Pamela"	"Pamela"
## [3251]	"Pamela"	"Pamela"	"Pamela"	"Pamela"	"Gary"
## [3256]	"Gary"	"Gary"	"Lori"	"Lori"	"Lori"
## [3261]	"Lori"	"Cindy"	"Yana"	"Yana"	"Tamara"
## [3266]	"Tamara"	"Tamara"	"Tamara"	"Tamara"	"Pauline"
## [3271]	"Cari"	"David"	"Pauline"	"Brendan"	"Dionis"
## [3276]	"Dionis"	"Saphhira"	"Chloris"	"Vivek"	"Vivek"
## [3281]	"Tanja"	"Harold"	"Jill"	"Jill"	"Jill"
## [3286]	"Becky"	"Penelope"	"Maurice"	"Maurice"	"Janet"
## [3291]	"Janet"	"Khloe"	"Ruben"	"Ruben"	"Ruben"
## [3296]	"Ruben"	"Shui"	"Shui"	"Shui"	"Shui"
## [3301]	"Bart"	"Tom"	"Pamela"	"Nora"	"Scott"
## [3306]	"Scott"	"Scott"	"Scott"	"Russell"	"Thea"
## [3311]	"Greg"	"Jesus"	"Anne"	"Grace"	"Henry"
## [3316]	"Henry"	"Henry"	"Linda"	"Anemone"	"Anemone"
## [3321]	"Jonathan"	"Jonathan"	"Jonathan"	"Jonathan"	"Michael"
## [3326]	"Joy"	"Adrian"	"Adrian"	"Adrian"	"Adrian"
## [3331]	"Charles"	"Craig"	"Craig"	"Emily"	"Delfina"
## [3336]	"Sean"	"Bart"	"Bart"	"Joseph"	"Joseph"
## [3341]	"Joseph"	"Joseph"	"Joseph"	"Joseph"	"Rob"
## [3346]	"Matt"	"Edward"	"Edward"	"Edward"	"Edward"
## [3351]	"Edward"	"Edward"	"William"	"William"	"William"
## [3356]	"William"	"William"	"William"	"William"	"William"
## [3361]	"Ken"	"Ken"	"Michael"	"Jay"	"Roland"
## [3366]	"Nancy"	"Alejandro"	"Alejandro"	"Gene"	"Stephanie"
## [3371]	"Chloris"	"Chloris"	"Chloris"	"Chloris"	"Chloris"
## [3376]	"Jill"	"Joe"	"Joe"	"Joe"	"Joe"
## [3381]	"Joe"	"Joe"	"Anthony"	"Anthony"	"Adam"
## [3386]	"Adam"	"George"	"Jennifer"	"Kristen"	"Craig"
## [3391]	"Craig"	"Craig"	"Craig"	"Jill"	"Resi"
## [3396]	"Resi"	"Resi"	"Carol"	"David"	"Sally"
## [3401]	"Susan"	"Larry"	"Eva"	"Katharine"	"Katharine"
## [3406]	"Katharine"	"Kunst"	"Kunst"	"Kunst"	"Kunst"
## [3411]	"Kunst"	"Kunst"	"Kunst"	"Lindsay"	"Lindsay"
## [3416]	"Ivan"	"Ivan"	"Jennifer"	"Greg"	"Muhammed"
## [3421]	"Sean"	"Sean"	"Monica"	"Monica"	"James"
## [3426]	"James"	"Justin"	"Justin"	"Pete"	"Pete"
## [3431]	"Tonja"	"Tonja"	"Tonja"	"Tonja"	"Tonja"
## [3436]	"Sung"	"Sung"	"Sung"	"Sung"	"Trudy"
## [3441]	"Trudy"	"Harold"	"Marc"	"Marc"	"Christy"
## [3446]	"Clytie"	"Naresj"	"Naresj"	"Naresj"	"Naresj"
## [3451]	"Gary"	"Speros"	"Heather"	"Heather"	"Heather"
## [3456]	"Heather"	"Heather"	"Muhammed"	"Muhammed"	"Andy"
## [3461]	"Steven"	"Steven"	"Steven"	"Lena"	"Christy"
## [3466]	"Ruben"	"Nat"	"Nat"	"Nona"	"Joe"
## [3471]	"Joe"	"Joe"	"Joe"	"Joe"	"Doug"
## [3476]	"Doug"	"Mike"	"Logan"	"Logan"	"Logan"
## [3481]	"Muhammed"	"Bill"	"Sonia"	"Sonia"	"Sonia"
## [3486]	"Tanja"	"Zuschuss"	"Nona"	"Katharine"	"Katharine"
## [3491]	"Michael"	"Michael"	"Muhammed"	"Muhammed"	"Carlos"
## [3496]	"Carlos"	"Michael"	"Michael"	"Sample"	"Sample"
## [3501]	"Sample"	"Stephanie"	"Shaun"	"Shaun"	"Patrick"
## [3506]	"Patrick"	"Alejandro"	"Alejandro"	"Alejandro"	"Alejandro"

## [3511]	"Alejandro"	"Alejandro"	"Ted"	"Ted"	"Dorothy"
## [3516]	"Dorothy"	"Dorothy"	"Darren"	"Darren"	"Dario"
## [3521]	"Max"	"Max"	"Toby"	"Claudia"	"Claudia"
## [3526]	"Claudia"	"Claudia"	"Maris"	"Jason"	"John"
## [3531]	"Alejandro"	"Michael"	"Michael"	"Michael"	"Stewart"
## [3536]	"Stewart"	"Stewart"	"Stewart"	"Stewart"	"Stewart"
## [3541]	"Stewart"	"Stewart"	"Stewart"	"Bruce"	"Bruce"
## [3546]	"Mark"	"Mark"	"Mark"	"Roger"	"Roger"
## [3551]	"Bart"	"Bart"	"Bart"	"Barry"	"Cathy"
## [3556]	"Janet"	"Janet"	"John"	"Victoria"	"Victoria"
## [3561]	"Ross"	"Ross"	"Ross"	"Ross"	"Michelle"
## [3566]	"Liz"	"Liz"	"Anna"	"Thomas"	"Alex"
## [3571]	"Alex"	"Ann"	"Ann"	"Eugene"	"Quincy"
## [3576]	"Maria"	"Maria"	"Maria"	"Maria"	"Maria"
## [3581]	"Maria"	"Maria"	"Laurel"	"Julie"	"Ed"
## [3586]	"Christopher"	"Christopher"	"Peter"	"Peter"	"Peter"
## [3591]	"Anna"	"Frank"	"Toby"	"Toby"	"Toby"
## [3596]	"Toby"	"Tom"	"Tom"	"Jason"	"Ben"
## [3601]	"John"	"John"	"John"	"Ruben"	"Lena"
## [3606]	"Lena"	"Scot"	"Scot"	"Henry"	"Mark"
## [3611]	"Greg"	"Bill"	"Bill"	"Bill"	"Bill"
## [3616]	"Bill"	"Bill"	"Bill"	"Craig"	"Craig"
## [3621]	"Craig"	"Craig"	"Elizabeth"	"Yana"	"Steven"
## [3626]	"Steven"	"Parhena"	"Annie"	"Annie"	"Ed"
## [3631]	"Denise"	"Kristen"	"Kristen"	"Kristen"	"Kristen"
## [3636]	"Kristen"	"Dean"	"Dean"	"Dean"	"Christina"
## [3641]	"Christina"	"Grace"	"Joseph"	"Joseph"	"Joseph"
## [3646]	"Joseph"	"Joseph"	"Joseph"	"Thea"	"Brian"
## [3651]	"Brian"	"Brian"	"Neola"	"Mike"	"Mike"
## [3656]	"Sue"	"Brosina"	"Brosina"	"Brosina"	"Shahid"
## [3661]	"Randy"	"Chris"	"Chris"	"Jim"	"Jim"
## [3666]	"Richard"	"Richard"	"Richard"	"Shirley"	"Nathan"
## [3671]	"Nathan"	"Eudokia"	"Eudokia"	"Eudokia"	"Mark"
## [3676]	"Mark"	"Mark"	"Katherine"	"Katherine"	"Katherine"
## [3681]	"Katherine"	"Katherine"	"Dorothy"	"Dorothy"	"Dorothy"
## [3686]	"Dorothy"	"Laurel"	"Laurel"	"Laurel"	"Tony"
## [3691]	"Cynthia"	"Vivek"	"Sonia"	"Speros"	"Nicole"
## [3696]	"Daniel"	"Daniel"	"Daniel"	"Matt"	"Matt"
## [3701]	"Matt"	"Matt"	"Ben"	"Andrew"	"Andrew"
## [3706]	"Andrew"	"Andrew"	"Andrew"	"Stuart"	"Evan"
## [3711]	"Evan"	"Janet"	"Janet"	"Joni"	"Peter"
## [3716]	"Stefania"	"Stefania"	"Matt"	"Brooke"	"Brooke"
## [3721]	"Brooke"	"Jesus"	"Alex"	"Tony"	"Tony"
## [3726]	"Tony"	"Jim"	"George"	"Tanja"	"Tamara"
## [3731]	"Pete"	"John"	"Michael"	"Gene"	"Deirdre"
## [3736]	"James"	"Alex"	"Jay"	"Steve"	"Steve"
## [3741]	"Carlos"	"Kean"	"Christine"	"Christine"	"Christine"
## [3746]	"Eileen"	"Carl"	"Keith"	"Frank"	"Elpida"
## [3751]	"Elpida"	"Elpida"	"Philip"	"Luke"	"Maurice"
## [3756]	"Sanjit"	"Sanjit"	"Sanjit"	"Vivek"	"Vivek"
## [3761]	"Dave"	"Dave"	"Dave"	"Dave"	"Maureen"
## [3766]	"Maureen"	"Dennis"	"Dennis"	"Dennis"	"Caroline"
## [3771]	"Carl"	"Giulietta"	"Paul"	"Paul"	"Pauline"
## [3776]	"Pauline"	"Craig"	"Craig"	"Bart"	"Bart"



## [3781]	"Bart"	"Bart"	"Mick"	"Cyra"	"Eugene"
## [3786]	"Toby"	"Toby"	"Toby"	"Toby"	"Dennis"
## [3791]	"Lynn"	"Michael"	"Carol"	"Daniel"	"Daniel"
## [3796]	"Daniel"	"Daniel"	"Damala"	"Damala"	"Evan"
## [3801]	"Daniel"	"Jim"	"Lena"	"Lena"	"Lena"
## [3806]	"Lena"	"Lena"	"Trudy"	"Nathan"	"Eugene"
## [3811]	"Eugene"	"Eugene"	"Dan"	"Dan"	"Dan"
## [3816]	"Dan"	"Dan"	"Dan"	"Dan"	"Doug"
## [3821]	"Lindsay"	"Lindsay"	"Rob"	"Roger"	"Roger"
## [3826]	"Roger"	"Roger"	"Rob"	"Joe"	"Steven"
## [3831]	"Steven"	"Phillina"	"Julie"	"Julie"	"Dean"
## [3836]	"Dean"	"Joy"	"Paul"	"Paul"	"Roy"
## [3841]	"Roy"	"Katharine"	"Katharine"	"Katharine"	"Evan"
## [3846]	"Damala"	"Mark"	"Mark"	"Rick"	"Rick"
## [3851]	"Rick"	"Rick"	"Rick"	"Rick"	"Rick"
## [3856]	"David"	"David"	"Guy"	"Guy"	"Guy"
## [3861]	"Guy"	"Shahid"	"Shahid"	"Shahid"	"Shahid"
## [3866]	"Katherine"	"Katherine"	"Katharine"	"Katharine"	"Greg"
## [3871]	"Greg"	"Greg"	"Greg"	"Greg"	"Greg"
## [3876]	"Sung"	"Sung"	"Sung"	"Jim"	"Jim"
## [3881]	"Chad"	"Darren"	"Sandra"	"Sandra"	"Anna"
## [3886]	"Mick"	"Anna"	"Neoma"	"Mark"	"Mark"
## [3891]	"Mark"	"Mark"	"Alejandro"	"Beth"	"John"
## [3896]	"Candace"	"Candace"	"Candace"	"Paul"	"Paul"
## [3901]	"Helen"	"Shahid"	"Justin"	"Dean"	"Craig"
## [3906]	"Craig"	"Craig"	"Barbara"	"Sylvia"	"Cassandra"
## [3911]	"Cassandra"	"Cassandra"	"Cassandra"	"Cassandra"	"Cassandra"
## [3916]	"Tamara"	"Tamara"	"Luke"	"Luke"	"Luke"
## [3921]	"Luke"	"Luke"	"Noel"	"Noel"	"Janet"
## [3926]	"Janet"	"Janet"	"Janet"	"Janet"	"Janet"
## [3931]	"Janet"	"Randy"	"Randy"	"Randy"	"Cathy"
## [3936]	"Kristen"	"Kristen"	"Kristen"	"Kristen"	"Kristen"
## [3941]	"Lindsay"	"Jack"	"Dario"	"Mike"	"Noel"
## [3946]	"Ann"	"Meg"	"Sharelle"	"Dennis"	"Dennis"
## [3951]	"Dennis"	"Dennis"	"Susan"	"Susan"	"Rick"
## [3956]	"Rick"	"Sarah"	"Sarah"	"Sarah"	"Sarah"
## [3961]	"Cyra"	"Cyra"	"Cyra"	"Emily"	"Russell"
## [3966]	"Russell"	"John"	"John"	"John"	"Laurel"
## [3971]	"Rick"	"Brooke"	"Thomas"	"Eric"	"Liz"
## [3976]	"Liz"	"Liz"	"Frank"	"Frank"	"Joseph"
## [3981]	"Trudy"	"Trudy"	"Trudy"	"Darren"	"Harold"
## [3986]	"Sam"	"Chad"	"Toby"	"Darren"	"Shahid"
## [3991]	"Shahid"	"Brendan"	"Brendan"	"Maribeth"	"Arthur"
## [3996]	"Arthur"	"Bart"	"Sheri"	"Sheri"	"Christopher"
## [4001]	"Christopher"	"Art"	"Keith"	"Keith"	"Keith"
## [4006]	"Keith"	"Keith"	"Sue"	"Sue"	"Barry"
## [4011]	"Barry"	"Dario"	"Michael"	"Marina"	"Marina"
## [4016]	"Marina"	"Russell"	"Russell"	"Russell"	"Russell"
## [4021]	"Russell"	"Aaron"	"Erin"	"Bill"	"Dennis"
## [4026]	"Dennis"	"Christopher"	"Maribeth"	"Maribeth"	"Maribeth"
## [4031]	"Maribeth"	"Dana"	"Dana"	"Dana"	"Dana"
## [4036]	"Dana"	"Dana"	"Skye"	"Skye"	"Skye"
## [4041]	"Tony"	"Anne"	"Astrea"	"Astrea"	"Katherine"
## [4046]	"Liz"	"Liz"	"Liz"	"Liz"	"Joe"

## [4051]	"Muhammed"	"Frank"	"Neil"	"Dennis"	"Lindsay"
## [4056]	"Lindsay"	"Lindsay"	"Bruce"	"Matt"	"Matt"
## [4061]	"Sam"	"Sam"	"Sam"	"Sam"	"Bill"
## [4066]	"Bill"	"Bill"	"Eva"	"Eva"	"Brian"
## [4071]	"Mathew"	"Sharelle"	"Thea"	"Brian"	"Brian"
## [4076]	"Brian"	"Suzanne"	"Harold"	"Harold"	"Harold"
## [4081]	"Harold"	"Harold"	"Jim"	"Odella"	"Thea"
## [4086]	"Maribeth"	"Adam"	"Adam"	"Max"	"Laurel"
## [4091]	"Laurel"	"Laurel"	"Laurel"	"Laurel"	"Nora"
## [4096]	"Nora"	"Nora"	"Nora"	"Edward"	"Resi"
## [4101]	"Dan"	"Don"	"Clay"	"Nat"	"Kean"
## [4106]	"Scott"	"Scott"	"Scott"	"Scott"	"Anne"
## [4111]	"Ryan"	"Magdelene"	"Brad"	"Julia"	"Doug"
## [4116]	"Julia"	"Julia"	"Julia"	"Adam"	"Adam"
## [4121]	"Adam"	"Adam"	"Jim"	"Tiffany"	"Tiffany"
## [4126]	"Joe"	"Ivan"	"Frank"	"Alejandro"	"Parhena"
## [4131]	"Parhena"	"Parhena"	"Parhena"	"Gene"	"Noah"
## [4136]	"Noah"	"Tamara"	"Barry"	"Tonja"	"Scot"
## [4141]	"Patrick"	"Dennis"	"Don"	"Edward"	"Philip"
## [4146]	"Brendan"	"Brendan"	"Brendan"	"Sanjit"	"George"
## [4151]	"George"	"George"	"Victoria"	"Victoria"	"Mark"
## [4156]	"Cassandra"	"Paul"	"Charlotte"	"Joni"	"Matt"
## [4161]	"Matt"	"Matt"	"Matt"	"Mark"	"Roger"
## [4166]	"Bobby"	"Bobby"	"Bobby"	"Sanjit"	"Henry"
## [4171]	"Philip"	"Bryan"	"Bryan"	"Bryan"	"Bryan"
## [4176]	"Bill"	"Eudokia"	"Liz"	"David"	"Susan"
## [4181]	"Noel"	"Noel"	"Noel"	"Noel"	"Mark"
## [4186]	"Rick"	"Ritsa"	"Ritsa"	"Resi"	"Resi"
## [4191]	"Resi"	"Resi"	"Resi"	"Resi"	"Resi"
## [4196]	"Resi"	"Ken"	"Matt"	"Henia"	"James"
## [4201]	"James"	"James"	"Alan"	"Heather"	"Carl"
## [4206]	"Emily"	"Emily"	"Arianne"	"Karl"	"Karl"
## [4211]	"Joy"	"Joy"	"Joy"	"Joy"	"Joy"
## [4216]	"Brian"	"Arthur"	"Arthur"	"Arthur"	"Arthur"
## [4221]	"Arthur"	"Arthur"	"Arthur"	"Marc"	"Marc"
## [4226]	"Scott"	"Sung"	"Sung"	"Pauline"	"Pauline"
## [4231]	"Pauline"	"Chris"	"Roy"	"Charles"	"Max"
## [4236]	"Max"	"James"	"Anthony"	"Chloris"	"Chloris"
## [4241]	"Harold"	"Harold"	"Bill"	"Bill"	"Bill"
## [4246]	"Lena"	"Lena"	"Rick"	"Rick"	"Joy"
## [4251]	"Joy"	"Joy"	"Thomas"	"Bart"	"Bart"
## [4256]	"Bart"	"Bart"	"Max"	"Max"	"Valerie"
## [4261]	"Kean"	"Chris"	"Aaron"	"Aaron"	"Aaron"
## [4266]	"Aaron"	"Denny"	"Frank"	"Justin"	"Justin"
## [4271]	"Julie"	"Beth"	"Beth"	"Beth"	"Beth"
## [4276]	"Frank"	"Frank"	"Frank"	"Frank"	"Duane"
## [4281]	"Frank"	"Frank"	"Dave"	"Jane"	"Jane"
## [4286]	"Jane"	"Tonja"	"Skye"	"Skye"	"Skye"
## [4291]	"Skye"	"Skye"	"John"	"Sarah"	"Sarah"
## [4296]	"Cindy"	"Sally"	"Sally"	"Sally"	"Bill"
## [4301]	"Bill"	"Eudokia"	"Eudokia"	"Beth"	"Frank"
## [4306]	"Harold"	"Harold"	"Sibella"	"Ben"	"Ben"
## [4311]	"Paul"	"Paul"	"Paul"	"Paul"	"Jeremy"
## [4316]	"Natalie"	"Natalie"	"Scot"	"Erica"	"Scott"

## [4321]	"Nick"	"Nick"	"Adam"	"Jack"	"Jack"
## [4326]	"Jack"	"Jack"	"Harry"	"Harry"	"Tanja"
## [4331]	"Victoria"	"Victoria"	"Christine"	"Christine"	"Patrick"
## [4336]	"Harry"	"Harry"	"Mick"	"Toby"	"Elizabeth"
## [4341]	"Elizabeth"	"Jennifer"	"Jennifer"	"Nona"	"Nona"
## [4346]	"Nona"	"Nona"	"Cari"	"Neil"	"Emily"
## [4351]	"Erin"	"Barry"	"Barry"	"Noel"	"Noel"
## [4356]	"Mark"	"Mark"	"Tony"	"Sheri"	"Victoria"
## [4361]	"Victoria"	"Victoria"	"Patrick"	"Patrick"	"Dan"
## [4366]	"Dan"	"Michael"	"Michael"	"Rick"	"Thomas"
## [4371]	"Thomas"	"Thomas"	"Eric"	"Eric"	"Bryan"
## [4376]	"Bradley"	"Fred"	"Rick"	"Rick"	"Rick"
## [4381]	"Theone"	"Claudia"	"Claudia"	"Claudia"	"Quincy"
## [4386]	"Quincy"	"Kunst"	"Kunst"	"Kunst"	"Khloe"
## [4391]	"Ionia"	"Marina"	"Marina"	"Marina"	"Gary"
## [4396]	"Gary"	"Arthur"	"Arthur"	"Maureen"	"Maureen"
## [4401]	"Max"	"Max"	"Max"	"Sanjit"	"Sanjit"
## [4406]	"Laurel"	"Laurel"	"Laurel"	"Laurel"	"Sarah"
## [4411]	"Sarah"	"Corey"	"Darren"	"Darren"	"Jeremy"
## [4416]	"Jeremy"	"Jeremy"	"Jeremy"	"Jeremy"	"Sean"
## [4421]	"Sean"	"Sean"	"Sean"	"Sean"	"Barry"
## [4426]	"Barry"	"Philip"	"Philip"	"Greg"	"Greg"
## [4431]	"Greg"	"Greg"	"Nick"	"Nick"	"Edward"
## [4436]	"Edward"	"Fred"	"Brian"	"Brian"	"Adrian"
## [4441]	"Scot"	"Roy"	"Roy"	"Arianne"	"Denny"
## [4446]	"Denny"	"Barbara"	"Tiffany"	"Jason"	"Arthur"
## [4451]	"Joni"	"Joni"	"Michelle"	"Michelle"	"Michelle"
## [4456]	"Frank"	"Frank"	"Frank"	"Frank"	"George"
## [4461]	"Tracy"	"Tracy"	"Tracy"	"Resi"	"Lena"
## [4466]	"Lena"	"Lena"	"Lena"	"Lena"	"Lena"
## [4471]	"Magdelene"	"Nona"	"Nona"	"Nona"	"Darrin"
## [4476]	"Darrin"	"Darrin"	"Darrin"	"Vicky"	"Vicky"
## [4481]	"Scott"	"Scott"	"Pauline"	"Ken"	"Doug"
## [4486]	"Doug"	"Guy"	"Guy"	"Guy"	"Guy"
## [4491]	"Guy"	"Guy"	"Jeremy"	"Stephanie"	"Fred"
## [4496]	"Fred"	"Maribeth"	"Deborah"	"Deborah"	"Trudy"
## [4501]	"Nathan"	"Thomas"	"Thomas"	"Roland"	"Trudy"
## [4506]	"Alice"	"Alice"	"Michael"	"Michael"	"Michael"
## [4511]	"Michael"	"Michael"	"Michael"	"Michael"	"Michael"
## [4516]	"Michael"	"Marc"	"Christina"	"Christina"	"Dave"
## [4521]	"Rose"	"Rose"	"Matt"	"Matt"	"Matt"
## [4526]	"Jonathan"	"Jonathan"	"Jonathan"	"Jonathan"	"Paul"
## [4531]	"Paul"	"Paul"	"Paul"	"Jennifer"	"Rick"
## [4536]	"Rick"	"Erin"	"Katherine"	"Victoria"	"Victoria"
## [4541]	"Victoria"	"Carlos"	"Ken"	"Ashley"	"Patrick"
## [4546]	"Dave"	"Gene"	"Craig"	"Craig"	"Craig"
## [4551]	"Craig"	"Craig"	"Sanjit"	"Sarah"	"Raymond"
## [4556]	"Raymond"	"Raymond"	"Raymond"	"Katherine"	"Frank"
## [4561]	"Deirdre"	"Mitch"	"Mitch"	"Mitch"	"Mitch"
## [4566]	"Mitch"	"Mitch"	"Sung"	"Bradley"	"Liz"
## [4571]	"Nora"	"Nora"	"Dave"	"Rick"	"Rick"
## [4576]	"Logan"	"Logan"	"William"	"William"	"Janet"
## [4581]	"Janet"	"Janet"	"Janet"	"Shahid"	"Shahid"
## [4586]	"Shahid"	"Harry"	"Becky"	"Alejandro"	"Muhammed"

## [4591]	"Muhammed"	"Natalie"	"Nona"	"Eric"	"Maureen"
## [4596]	"Christopher"	"Christopher"	"Erin"	"Bill"	"Bill"
## [4601]	"Vivian"	"Vivian"	"Adam"	"Adam"	"Adam"
## [4606]	"Chris"	"Kelly"	"Michael"	"Michael"	"Pauline"
## [4611]	"Pauline"	"Ruben"	"Ruben"	"Ruben"	"Ruben"
## [4616]	"Liz"	"Cari"	"Kean"	"Bobby"	"Neil"
## [4621]	"Delfina"	"Maurice"	"Maurice"	"Maurice"	"Michelle"
## [4626]	"Jennifer"	"Speros"	"Speros"	"Speros"	"Patrick"
## [4631]	"Patrick"	"Patrick"	"Patrick"	"Patrick"	"Ann"
## [4636]	"Mathew"	"Benjamin"	"Ben"	"Ben"	"Ben"
## [4641]	"Ben"	"Troy"	"Aaron"	"Allen"	"Allen"
## [4646]	"Paul"	"Rachel"	"Rachel"	"Rachel"	"Rachel"
## [4651]	"Noah"	"Noah"	"Stewart"	"Stewart"	"Stewart"
## [4656]	"Nicole"	"Sam"	"Brendan"	"Suzanne"	"Eugene"
## [4661]	"Susan"	"Susan"	"Susan"	"Catherine"	"Trudy"
## [4666]	"Trudy"	"Trudy"	"Damala"	"Maria"	"Maria"
## [4671]	"Maria"	"Maria"	"Maria"	"Sandra"	"Pamela"
## [4676]	"Pamela"	"Pamela"	"Roger"	"Roger"	"Roger"
## [4681]	"Roger"	"Roy"	"Sarah"	"Heather"	"Stuart"
## [4686]	"Bobby"	"Brendan"	"Annie"	"Harold"	"Harold"
## [4691]	"Barry"	"Barry"	"Henia"	"Henia"	"Keith"
## [4696]	"Keith"	"Keith"	"Frank"	"Maya"	"Emily"
## [4701]	"Joseph"	"Craig"	"Craig"	"Harold"	"Harold"
## [4706]	"Adam"	"Matthew"	"Cindy"	"Cindy"	"Aaron"
## [4711]	"Aaron"	"Emily"	"Emily"	"Emily"	"Emily"
## [4716]	"Fred"	"Kelly"	"Sample"	"Paul"	"Paul"
## [4721]	"Tom"	"Patrick"	"Suzanne"	"Neil"	"Neil"
## [4726]	"Steve"	"Heather"	"Brad"	"Khloe"	"Khloe"
## [4731]	"Khloe"	"Susan"	"Laurel"	"Laurel"	"Laurel"
## [4736]	"Joy"	"Carlos"	"Carlos"	"Carlos"	"Carlos"
## [4741]	"Maribeth"	"Maribeth"	"Maribeth"	"Maribeth"	"Maribeth"
## [4746]	"Lisa"	"Deborah"	"Annie"	"Annie"	"Dennis"
## [4751]	"Chris"	"Jill"	"Jill"	"Tamara"	"Tim"
## [4756]	"Shahid"	"Kunst"	"Kunst"	"Kunst"	"Evan"
## [4761]	"Evan"	"Joe"	"Nick"	"Nick"	"Nick"
## [4766]	"Alan"	"Neil"	"Ken"	"Ken"	"Barry"
## [4771]	"Caroline"	"Caroline"	"Caroline"	"Caroline"	"Katherine"
## [4776]	"Katherine"	"Katherine"	"Katherine"	"Sally"	"Cindy"
## [4781]	"Cindy"	"Cindy"	"Cindy"	"Cindy"	"Joe"
## [4786]	"Pauline"	"Pauline"	"Pauline"	"Anne"	"Troy"
## [4791]	"Troy"	"Cassandra"	"Cassandra"	"Cassandra"	"Cassandra"
## [4796]	"Andrew"	"Andrew"	"Andrew"	"Andrew"	"Andrew"
## [4801]	"Andrew"	"Andrew"	"Brian"	"Brian"	"Brian"
## [4806]	"Brian"	"Brian"	"Jim"	"Jim"	"Natalie"
## [4811]	"Sean"	"Sean"	"George"	"Craig"	"William"
## [4816]	"William"	"Richard"	"Marc"	"Marc"	"Marc"
## [4821]	"Edward"	"Edward"	"Edward"	"Edward"	"Edward"
## [4826]	"Erin"	"Erin"	"Mark"	"Mark"	"Sara"
## [4831]	"Nora"	"Roy"	"Brad"	"Brad"	"Brad"
## [4836]	"Jay"	"Chad"	"Lauren"	"Lauren"	"Katrina"
## [4841]	"Katrina"	"Katrina"	"Speros"	"Christina"	"Rob"
## [4846]	"Vivek"	"Sally"	"Sally"	"Sally"	"Sally"
## [4851]	"Sally"	"Michael"	"Jennifer"	"Liz"	"Liz"
## [4856]	"Mike"	"Sung"	"Sung"	"Sung"	"Darren"

```
## [4861] "Darren"      "Ken"      "Ken"      "Ionia"    "Keith"
## [4866] "Keith"      "Keith"    "Jamie"    "Alan"     "Alan"
## [4871] "Sonia"      "Christine" "Noel"     "Noel"     "Noel"
## [4876] "John"       "Maribeth" "Maribeth" "Robert"   "Nicole"
## [4881] "Nicole"     "Helen"    "Helen"    "Helen"    "Helen"
## [4886] "Helen"      "Darren"   "Darren"   "Darren"   "Darren"
## [4891] "Kristina"   "Kristina" "Kristina" "Ashley"   "Craig"
## [4896] "Corinna"    "Corinna"  "Alan"     "Harold"   "Harold"
## [4901] "Harold"     "Richard"  "Richard"  "Richard"  "Mark"
## [4906] "Mark"       "Ryan"     "Anne"     "Anne"     "Anne"
## [4911] "Anne"       "Anne"     "Anne"     "Anne"     "Shaun"
## [4916] "Ted"        "Ryan"     "Ryan"     "Dianna"   "Dianna"
## [4921] "Maris"      "Ruben"    "Ruben"    "Tom"      "Dave"
## [4926] "Dave"      "Dave"     "Chris"
```

```
length(grep("Bill", sales$Customer.Name))
```

```
## [1] 37
```

## Exercise 6

How many mentions of the word ‘table’ are there in the Product.Name column? **Note you can do this in one line of code**

```
# Your code here
length(grep("table", sales$Product.Name))
```

```
## [1] 197
```

## Exercise 7

Create a table of counts for each state in the sales data. The counts table should be ordered alphabetically from A to Z.

```
# Your code here
as.data.frame(table(sales$State))
```

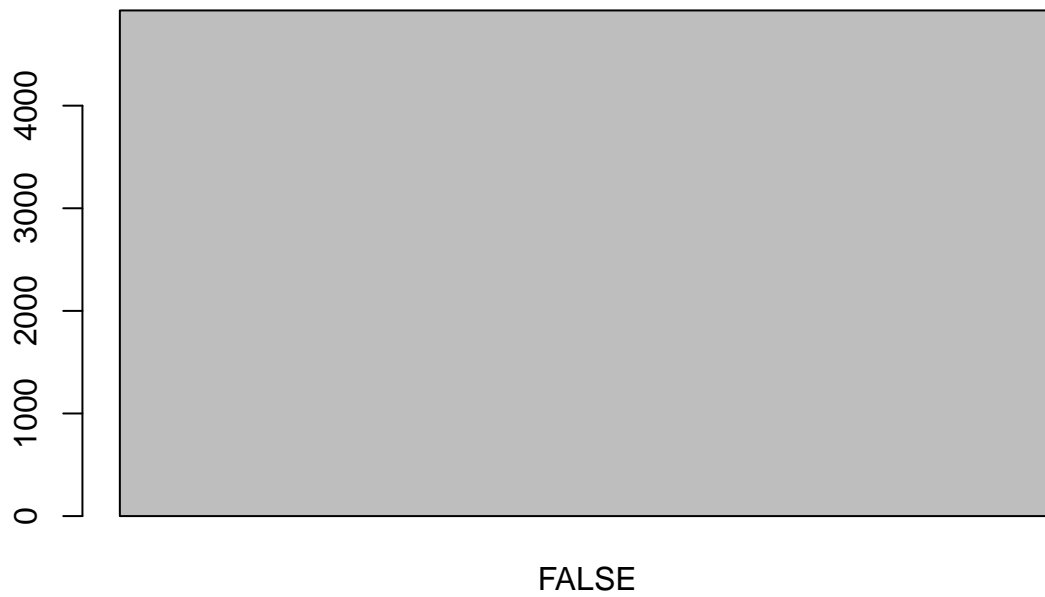
```
##           Var1 Freq
## 1      Alabama   28
## 2      Arizona  119
## 3      Arkansas   22
## 4    California  993
## 5      Colorado   90
## 6    Connecticut   50
## 7      Delaware   47
## 8 District of Columbia    1
## 9      Florida  186
## 10     Georgia   79
## 11     Idaho     9
```

## 12	Illinois	286
## 13	Indiana	74
## 14	Iowa	11
## 15	Kansas	16
## 16	Kentucky	64
## 17	Louisiana	18
## 18	Maine	4
## 19	Maryland	63
## 20	Massachusetts	71
## 21	Michigan	142
## 22	Minnesota	41
## 23	Mississippi	27
## 24	Missouri	37
## 25	Montana	2
## 26	Nebraska	26
## 27	Nevada	24
## 28	New Hampshire	9
## 29	New Jersey	58
## 30	New Mexico	11
## 31	New York	555
## 32	North Carolina	117
## 33	North Dakota	7
## 34	Ohio	211
## 35	Oklahoma	38
## 36	Oregon	56
## 37	Pennsylvania	312
## 38	Rhode Island	25
## 39	South Carolina	28
## 40	South Dakota	9
## 41	Tennessee	88
## 42	Texas	460
## 43	Utah	27
## 44	Vermont	10
## 45	Virginia	80
## 46	Washington	254
## 47	West Virginia	4
## 48	Wisconsin	38
## 49	Wyoming	1

## Exercise 8

Create an alphabetically ordered barplot for each sales Category in the State of Texas.

```
# Your code here
barplot(table(sales$Sales == sales$State))
```



```
sales$State <- factor(sales$State  
                      ,levels=c('Texas'))
```

```
levels(sales$State)
```

```
## [1] "Texas"
```

```
barplot(table(sales$State))
```



## Exercise 9

Find the average profit by region. **Note:** You will need to use the `aggregate()` function to do this. To understand how the function works type `?aggregate` in the console.

```
# Your code here
aggregate( sales$Profit ~ sales$Region, sales, mean )
```

```
##   sales$Region sales$Profit
## 1      Central    20.46822
## 2         East    29.91937
## 3        South    11.27720
## 4         West    32.77000
```

## Exercise 10

Find the average profit by order year. **Note:** You will need to use the `aggregate()` function to do this. To understand how the function works type `?aggregate` in the console.

```
# Your code here
year = format(sales$Order.Date, format = "%Y")
aggregate( sales$Profit ~ year, sales, mean )
```



```
##   year sales$Profit
## 1 2014    32.24582
## 2 2015    21.58676
## 3 2016    30.10960
## 4 2017    21.31825
```