

OrSearchMain

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```
# Put any RMarkdown options you'd like to have throughout the document here  
# These are the options I like to use to make figures smaller  
# and print code output right below the command:  
knitr::opts_chunk$set(fig.width=6, fig.asp = 0.618, collapse=TRUE)
```

Finding Names That End With -or

- **Purpose:** Finding Names That End With -or
 - **Inputs:** Listofnames_Complete_List_Names.json
 - **Outputs:** None
 - **Side Effects:** All names and count that end with -or
-

Import data from JSON

First we need the data. We obtain it by cloning the database found at <https://www.back4app.com/databases/back4app/list-of-names-dataset/all-names> to our own database, then exporting via JSON to get all the names in one place. File is in github folder along with project files.

```
# Load the package required to read JSON files as well as tidyverse for sorting functions  
library("rjson")  
library("tidyverse")  
## -- Attaching packages ----- tidyverse 1.3.1 --  
## v ggplot2 3.3.5      v purrr   0.3.4  
## v tibble  3.1.6      v dplyr   1.0.8  
## v tidyr   1.2.0      v stringr 1.4.0  
## v readr   2.1.2      v forcats 0.5.1  
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()    masks stats::lag()  
  
# Give the input file name to the function -- result should be "large list" of 318.1 MB  
namesList<- fromJSON(file = "Listofnames_Complete_List_Names.json")
```

Loop thru data for names that match an ending with -or.

```

#Final name vector - initialize
finalNames = NULL

#Loop through list
for (i in 1:length(namesList[[1]])) {
  currName = namesList[[1]][[i]]$Name

  #Use regex to discriminate
  if (!is.na(str_extract(currName,"or$"))) {
    finalNames = rbind(finalNames, currName)
  }
}

#Remove duplicates
finalNames = unique(finalNames)

#Sort list
finalNames = str_sort(finalNames)

#Print final list
print(finalNames)
## [1] "Arthor" "Author" "Connor" "Conor" "Doctor" "Eleanor"
## [7] "Elenor" "Elinor" "Flor" "Governor" "Hector" "Isidor"
## [13] "Ivor" "Junior" "Konnor" "Leonor" "Major" "Minor"
## [19] "Nestor" "Pryor" "Salvador" "Taylor" "Thor" "Trevor"
## [25] "Tylor" "Victor"

```

Check Crawled Source

It seems our found list is incomplete. There's not a Gregor or a Fyodor anywhere in sight! Let's try another list, crawled from the internet, at <https://github.com/aakashkag/People-Name-List/blob/master/Crawled-People-Names/First%20names>, downloaded to a txt file in this folder (Firstnames.txt). This is from the internet, though, so we may get some... odd... results.

```

#We can retain the same data structure and function structure we used earlier:

namesListCrawled = read.table("Firstnames.txt", header = FALSE, sep = "")
#Loop through list
for (i in 1:length(namesListCrawled[[1]])) {
  currName = namesListCrawled[[1]][[i]]

  #Use regex to discriminate
  if (!is.na(str_extract(currName,"or$"))) {
    finalNames = rbind(finalNames, currName)
  }
}

#Sort list - we put this first to coerce type back to proper list
finalNames = str_sort(finalNames)

#Remove duplicates
finalNames = unique(finalNames)

```

```

#Sort list
finalNames = str_sort(finalNames)

#Print final list!
print(finalNames)
##      [1] "abdulgafoor" "abnor"      "abubakor"    "adior"      "adlor"
##      [6] "adventor"    "aenor"      "agenor"      "ainoor"     "aitor"
##     [11] "akhdiyor"    "akhror"     "alaor"       "alastor"    "albodor"
##     [16] "alenor"      "aleodor"    "alfor"       "alienor"    "alligator"
##     [21] "almozor"     "alnlor"     "alphajor"    "alphamaeamor" "alzor"
##     [26] "ambassador"  "ambassador" "amenakpor"   "amtulnoor"  "ankoor"
##     [31] "annaleonor"  "annarbor"   "annoor"      "ansor"      "apoor"
##     [36] "arbnor"      "archor"     "arnor"       "aror"       "arquistador"
##     [41] "Arthor"      "ashnoor"    "aurthor"     "Author"     "awvictor"
##     [46] "ayoor"       "ayorkor"    "bahador"     "bakhtiyor"  "balbor"
##     [51] "barjor"      "belmor"     "benedictor"  "besor"      "beylor"
##     [56] "bhuvaneshor" "bhuwanishor" "bibhor"      "bictor"     "bienor"
##     [61] "bipor"       "bireshor"   "borvor"      "brajkishor" "brenor"
##     [66] "brijkishor"  "bror"       "brynmor"     "burjor"     "capttrevor"
##     [71] "caspor"      "chamor"     "chanlor"     "chernor"    "cherpor"
##     [76] "chinor"      "christaphor" "christephor" "christophor" "ciector"
##     [81] "claudionor"  "cliffor"    "colintaylor" "comador"    "commodor"
##     [86] "connnor"     "Connor"     "conor"       "Conor"      "convor"
##     [91] "crevor"      "cristofor"  "ctor"        "cylor"      "dalibor"
##     [96] "danor"       "dashnor"    "davor"       "deator"     "deinor"
##    [101] "delector"    "delsinor"   "denvor"      "dereksenior" "dhadesugoor"
##    [106] "dianeshor"   "diantor"    "dibor"       "dijor"      "dinor"
##    [111] "dior"        "Doctor"     "dominador"   "dreamor"    "ealnor"
##    [116] "egor"        "eieanor"    "eivor"       "elaanor"    "elainor"
##    [121] "elanor"      "elcindor"   "eleamor"     "eleanoor"   "eleanor"
##    [126] "Eleanor"     "eleaor"     "eleazor"     "elenanor"   "elenaor"
##    [131] "elendor"     "elenor"     "Elenor"      "eleonor"    "elinor"
##    [136] "Elinor"      "elionor"    "ellanor"     "elleanor"   "ellenor"
##    [141] "ellior"      "ellynor"    "elozor"      "elynor"     "elyor"
##    [146] "emsor"       "emyflor"    "enaflor"     "endor"      "enitor"
##    [151] "esor"        "estiator"   "ettor"       "evenor"     "evor"
##    [156] "eythor"      "fabricator" "fajor"       "felinor"    "feodor"
##    [161] "fidor"       "fiodor"     "fjedor"      "flor"       "Flor"
##    [166] "fundador"    "fyodor"     "gaenor"      "gaithor"    "garbor"
##    [171] "gimbor"      "gior"       "glanfor"     "gordonor"   "Governor"
##    [176] "graceeleanor" "greigor"    "gudkor"      "gunvor"     "gustavor"
##    [181] "guynor"      "haftor"     "hakgor"      "haldor"     "halldor"
##    [186] "halvor"      "hansentor"  "harnoor"     "harunor"    "hasnoor"
##    [191] "hctor"       "hecor"      "hector"      "Hector"     "heetor"
##    [196] "heitor"      "helenor"    "hextor"      "heytor"     "hristofor"
##    [201] "hunor"       "huzoor"     "hygor"       "iavor"      "idor"
##    [206] "ifor"        "igbelokotor" "ighor"       "ihor"       "ingvor"
##    [211] "inor"        "inspector"  "investigator" "invor"      "irevor"
##    [216] "isador"      "isidor"     "isedor"      "ishabor"    "ishwor"
##    [221] "isidoor"     "isidor"     "Isidor"      "isor"       "ivor"
##    [226] "Ivor"        "izidor"     "izydor"      "jackor"     "jafor"
##    [231] "jagatkishor" "jagnoor"    "jalehor"     "jalor"      "jamboor"
##    [236] "jamor"       "jaquator"   "jathor"      "jenafor"    "jenifor"

```

## [241]	"jennifor"	"jenor"	"jideofor"	"jlator"	"joeflor"
## [246]	"johor"	"jojor"	"jugalkishor"	"jugantor"	"junior"
## [251]	"Junior"	"juror"	"kastoor"	"kaysor"	"keeranoor"
## [256]	"kemafor"	"kendor"	"kenvor"	"kesor"	"kevor"
## [261]	"keyoor"	"khatibbor"	"khudor"	"khushnoor"	"kirkor"
## [266]	"kitdor"	"kodetthoor"	"kohitoor"	"kokpor"	"komondoor"
## [271]	"kondor"	"Konnor"	"krantikishor"	"kristaphor"	"kristapor"
## [276]	"kristofor"	"kristophor"	"kristor"	"krkor"	"kudoor"
## [281]	"kunoor"	"kurtor"	"lamor"	"lanor"	"lashanor"
## [286]	"lavantor"	"leaor"	"leemor"	"leeor"	"lenor"
## [291]	"leonoor"	"leonor"	"Leonor"	"leor"	"levator"
## [296]	"libor"	"lidror"	"lihor"	"lillvor"	"limor"
## [301]	"linor"	"lionor"	"lior"	"lizaflor"	"lucanor"
## [306]	"lutfor"	"lynnor"	"lynor"	"lyor"	"mabroor"
## [311]	"maflor"	"mahenoor"	"mahnoor"	"mahynoor"	"maichor"
## [316]	"mailor"	"major"	"Major"	"makefor"	"makentor"
## [321]	"mamor"	"manjoor"	"mansuor"	"mariccor"	"maricor"
## [326]	"marieflor"	"marihonor"	"marinor"	"marjor"	"maryflor"
## [331]	"marynor"	"mashior"	"massroor"	"mayflor"	"mayoor"
## [336]	"meathor"	"meidor"	"mentor"	"meor"	"merador"
## [341]	"meror"	"milaflor"	"milbhor"	"milchor"	"Minor"
## [346]	"minsoor"	"mirelor"	"mirror"	"mizanoor"	"moderator"
## [351]	"mohamednoor"	"mohinoor"	"moninoor"	"monsignor"	"monzoor"
## [356]	"mylnor"	"mynor"	"nagloor"	"nainor"	"nanbor"
## [361]	"nandakishor"	"nandkishor"	"nandor"	"navbahor"	"navnoor"
## [366]	"ndior"	"nector"	"nelffor"	"nescor"	"nesfor"
## [371]	"nesphor"	"nestor"	"Nestor"	"newor"	"nexor"
## [376]	"nicador"	"nicanor"	"nicusor"	"ninor"	"njanoor"
## [381]	"nominator"	"nstor"	"nupoor"	"nyaljor"	"odoor"
## [386]	"onyeador"	"orlandor"	"othor"	"outdoor"	"paultaylor"
## [391]	"paulvictor"	"pepor"	"piamor"	"pinthor"	"pitor"
## [396]	"porunelloor"	"prantor"	"Pryor"	"pynshaibor"	"radnor"
## [401]	"rahlor"	"rainor"	"rajkishor"	"ramior"	"ramkishor"
## [406]	"ranthambor"	"raydor"	"realtor"	"redentor"	"regor"
## [411]	"rejeanor"	"reolor"	"revenor"	"rexor"	"rexzor"
## [416]	"reymolador"	"rinor"	"roclor"	"rogor"	"roopkishor"
## [421]	"ryanor"	"sador"	"salbor"	"salcor"	"salivetor"
## [426]	"salvador"	"Salvador"	"salvidor"	"sanghor"	"sardor"
## [431]	"seankor"	"sefakor"	"senthoor"	"setor"	"shahinoor"
## [436]	"shahoor"	"shahpor"	"shainoor"	"shalor"	"shamoor"
## [441]	"shamor"	"shanoor"	"shantor"	"shapoor"	"sharlenor"
## [446]	"shavior"	"shehnoor"	"shenoor"	"shermor"	"shokor"
## [451]	"shukoor"	"sindoor"	"sjobor"	"skylor"	"sofamor"
## [456]	"sohkor"	"soror"	"steinthor"	"steinvor"	"stentor"
## [461]	"sugoor"	"sumitor"	"sunwarrior"	"suor"	"suroor"
## [466]	"survivor"	"sutrulor"	"taelor"	"tagor"	"taimor"
## [471]	"takvor"	"tamador"	"tamoor"	"tavor"	"taybor"
## [476]	"tayllor"	"taylor"	"Taylor"	"taymoor"	"teimor"
## [481]	"telesfor"	"telkor"	"tennador"	"teodor"	"tervor"
## [486]	"tevor"	"teylor"	"thekor"	"theodhor"	"theodoor"
## [491]	"Thor"	"tielor"	"timbor"	"timoor"	"tinamajor"
## [496]	"tiror"	"tiymor"	"togbor"	"tokunbor"	"traterriaor"
## [501]	"travor"	"treavor"	"trebor"	"treacor"	"trefor"

## [506]	"tressor"	"trevor"	"Trevor"	"trevyor"	"treyvor"
## [511]	"trezor"	"trvor"	"tumoor"	"Tylor"	"valmayor"
## [516]	"valor"	"valtor"	"vannor"	"vaylor"	"veawor"
## [521]	"vector"	"vegor"	"velibor"	"velloor"	"velvor"
## [526]	"venaflor"	"vendor"	"vennor"	"vibhor"	"vibor"
## [531]	"vicktor"	"vicor"	"victor"	"Victor"	"victtor"
## [536]	"viktor"	"visleflor"	"vistor"	"vitor"	"wendsor"
## [541]	"wilfor"	"wilmor"	"winfor"	"wojbor"	"wyndsor"
## [546]	"xavior"	"yegor"	"yehor"	"yodgor"	"yohetsor"
## [551]	"youngor"	"yulandor"	"yunior"	"yunor"	"yvor"
## [556]	"zahinoor"	"zanoor"	"zigor"	"zsombor"	

#Write names to file

write(finalNames, "nameFileFinal.txt")