

# OrSearchMain

Paul Ernst

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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)
```

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## 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     vforcats 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.

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```

#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

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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] "ambassaddor"  "ambassador" "amenakpor"   "amtulnoor"  "ankoor"
## [31] "annaleonor"   "annarbor"   "annoor"      "ansor"      "apoort"
## [36] "arbnor"       "anchor"     "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"          "eLEANOR"    "eivor"      "elaanor"    "elainor"
## [121] "elanor"       "elcindor"   "eleamor"    "eleanoor"   "eleonor"
## [126] "Eleanor"      "eleaor"     "eleazor"    "elenanor"   "elenoar"
## [131] "elendor"       "elenor"     "Elenor"     "eleonor"    "elinor"
## [136] "Elinor"        "elionor"    "ellenor"    "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] "graceleanor"  "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"        "isdor"      "isedor"     "ishabor"    "ishwor"
## [221] "isidoor"       "isidor"     "Isidor"     "isor"       "ivor"
## [226] "Ivor"          "izidor"     "izyelor"    "jackor"     "jafor"
## [231] "jagatkishor"  "jagnoor"    "jalehor"   "jalor"      "jamboor"
## [236] "jamor"         "jaquator"  "jathor"     "jenafor"    "jenifor"

```

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## [241] "jennifer"      "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"      "milchор"     "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"         "rocior"       "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"       "trecor"     "trefor"

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## [506] "tressor"      "trevor"       "Trevor"        "trevyror"      "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"       "wyndstor"
## [546] "xavior"          "yegor"        "yehor"         "yodgor"       "yohetsor"
## [551] "youngor"         "yulandor"     "yunior"        "yunor"        "yvor"
## [556] "zahinoor"        "zanoor"       "zigor"         "zsombor"

```