

EDA LA - 1 “Netflix Titles” Group 15: B Sai Narsa Reddy, Pranava Aithal K S

Github : [#NT #Part 1](https://github.com/PranavaAithal/EDA-LA) #In this part, we are loading the necessary libraries (readr, dplyr, ggplot2, e1071, and moments) to work with the data. Then, we are reading a CSV file named “netflix_titles.csv” from the specified path and assigning it to the dataframe nt. Finally, we are viewing the dataframe nt using the View() function.

```
library(readr)
library(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
```

```
library(ggplot2)
library(e1071)
library(moments)
```

```
##
## Attaching package: 'moments'

## The following objects are masked from 'package:e1071':
##
##   kurtosis, moment, skewness
```

```
nt <- read_csv("C:/Users/prana/OneDrive/Desktop/5th Sem/7th SEM/EDA/netflix_titles.csv")
```

```
## Rows: 8807 Columns: 13
```

```
## -- Column specification -----
## Delimiter: ","
## chr (12): show_id, type, title, director, cast, country, date_added, rating,...
## dbl (1): release_year
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
View(nt)
```

#Part 2 #In this part, we are performing data type conversions on the release_year column of the nt dataframe. First, we convert it to numeric using as.numeric(), then we subset the first 400 values using [1:400] and assign it to the variable neww. Next, we convert neww to integer using as.integer(), subset the first 400 values, and assign it to neww1. Then, we convert neww1 to character using as.character(), subset the first 400 values, and assign it to neww2. Finally, we check the classes of the nt dataframe, nttitle, and ntrelease_year.

```
neww = as.numeric(nt$release_year)
neww[1:400]
```

```
## [1] 2020 2021 2021 2021 2021 2021 2021 2021 1993 2021 2021 2021 2021 2021 2021 2021
## [16] 2021 2020 2020 2021 2021 2021 2021 2018 1996 2021 1998 2021 1997 2010 2013 2013
## [31] 2021 2021 2020 2021 2020 2021 2021 2018 2017 2021 2021 1975 1978 1983 1987
## [46] 2021 2012 2020 2001 2021 2014 2002 2003 2004 2001 2021 2011 2008 2009 2007
## [61] 2010 2005 2006 2004 2021 2021 2014 1994 2021 2015 2021 2021 2021 2018 2021
## [76] 2021 2013 2021 2020 2021 2021 2021 2021 2021 2021 2020 2021 2021 2019 2021 2017
## [91] 2019 2021 2021 2021 2018 2021 2018 2021 2021 2021 2019 2021 2021 2020 2016
## [106] 2017 2021 2018 2021 2021 2021 2021 2021 2021 2021 1994 2009 2015 2021 2017 2020
## [121] 2021 2019 2003 2012 2013 2021 2020 2004 2017 2005 2021 1982 2021 2015 1994
## [136] 1993 2003 2001 2010 1989 2014 2015 2007 2011 1990 1991 1994 2021 2020 1998
## [151] 1999 2005 2016 2016 2015 1986 2010 2018 2003 2010 1992 1996 2017 2003 1999
## [166] 2019 1984 2008 2001 2006 1997 2017 2003 2015 2003 1980 1986 1961 2014 1996
## [181] 2000 2021 2008 1993 2021 2021 2021 2021 2008 2020 2021 2017 2008 2021 2002
## [196] 2008 2021 2021 2021 2006 2004 2003 2005 2016 2012 2001 2010 2008 2010 2013
## [211] 2011 2014 2016 2021 2021 2007 2011 2011 2021 2021 2021 2021 2021 2021 2021
## [226] 2021 2021 2020 2014 2020 2021 2021 2019 2021 2021 2021 2021 2021 2021 2021
## [241] 2021 2021 2021 2021 2018 2021 2021 2021 2021 2021 2021 2020 2011 2021 1995 2021
## [256] 2021 2020 2015 2020 2018 2020 2021 2021 2016 2014 2018 2020 1993 2020 2015
## [271] 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2016 2020 2021 2021
## [286] 2013 2021 2021 2018 2019 2021 2021 2012 2021 2020 2021 2021 2021 2020 2021
## [301] 2021 2013 2013 1985 2021 1993 2016 2021 2012 2021 2021 2021 2021 2009 1995
## [316] 2010 2011 2021 2021 2005 2021 2013 2008 2012 2020 1992 1993 2007 2016 2002
## [331] 2009 2020 1999 1986 2019 2006 2010 2007 2014 2021 2010 1999 1995 1991 1994
## [346] 2015 2008 2009 2019 2003 2000 2004 2016 2013 1991 2011 2010 2004 1995 2000
## [361] 2010 2021 2018 2021 2021 2014 2021 2020 2009 2021 2021 2009 2021 2021 2013
## [376] 2021 2021 2021 2019 2021 2021 2021 2021 2012 2021 2021 2021 2021 2021 2019
## [391] 2019 2020 2012 2021 2021 2021 2021 2021 2021 2021
```

```
neww1 = as.integer(neww)
neww1[1:400]
```

```
## [1] 2020 2021 2021 2021 2021 2021 2021 2021 1993 2021 2021 2021 2021 2021 2021 2021
## [16] 2021 2020 2020 2021 2021 2021 2021 2018 1996 2021 1998 2021 1997 2010 2013 2013
## [31] 2021 2021 2020 2021 2020 2021 2021 2018 2017 2021 2021 1975 1978 1983 1987
## [46] 2021 2012 2020 2001 2021 2014 2002 2003 2004 2001 2021 2011 2008 2009 2007
## [61] 2010 2005 2006 2004 2021 2021 2014 1994 2021 2015 2021 2021 2021 2018 2021
## [76] 2021 2013 2021 2020 2021 2021 2021 2021 2021 2021 2020 2021 2021 2019 2021 2017
## [91] 2019 2021 2021 2021 2018 2021 2018 2021 2021 2021 2019 2021 2021 2020 2016
## [106] 2017 2021 2018 2021 2021 2021 2021 2021 2021 2021 1994 2009 2015 2021 2017 2020
## [121] 2021 2019 2003 2012 2013 2021 2020 2004 2017 2005 2021 1982 2021 2015 1994
## [136] 1993 2003 2001 2010 1989 2014 2015 2007 2011 1990 1991 1994 2021 2020 1998
## [151] 1999 2005 2016 2016 2015 1986 2010 2018 2003 2010 1992 1996 2017 2003 1999
## [166] 2019 1984 2008 2001 2006 1997 2017 2003 2015 2003 1980 1986 1961 2014 1996
## [181] 2000 2021 2008 1993 2021 2021 2021 2021 2008 2020 2021 2017 2008 2021 2002
## [196] 2008 2021 2021 2021 2006 2004 2003 2005 2016 2012 2001 2010 2008 2010 2013
## [211] 2011 2014 2016 2021 2021 2007 2011 2011 2021 2021 2021 2021 2021 2021 2021
## [226] 2021 2021 2020 2014 2020 2021 2021 2019 2021 2021 2021 2021 2021 2021 2021
## [241] 2021 2021 2021 2021 2018 2021 2021 2021 2021 2021 2021 2020 2011 2021 1995 2021
## [256] 2021 2020 2015 2020 2018 2020 2021 2021 2016 2014 2018 2020 1993 2020 2015
## [271] 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2021 2016 2020 2021 2021
```

```
## [286] 2013 2021 2021 2018 2019 2021 2021 2012 2021 2020 2021 2021 2021 2020 2021
## [301] 2021 2013 2013 1985 2021 1993 2016 2021 2012 2021 2021 2021 2021 2009 1995
## [316] 2010 2011 2021 2021 2005 2021 2013 2008 2012 2020 1992 1993 2007 2016 2002
## [331] 2009 2020 1999 1986 2019 2006 2010 2007 2014 2021 2010 1999 1995 1991 1994
## [346] 2015 2008 2009 2019 2003 2000 2004 2016 2013 1991 2011 2010 2004 1995 2000
## [361] 2010 2021 2018 2021 2021 2014 2021 2020 2009 2021 2021 2009 2021 2021 2013
## [376] 2021 2021 2021 2019 2021 2021 2021 2021 2012 2021 2021 2021 2021 2021 2019
## [391] 2019 2020 2012 2021 2021 2021 2021 2021 2021 2021 2021
```

```
neww2 = as.character(neww1)
neww2[1:400]
```

```
## [1] "2020" "2021" "2021" "2021" "2021" "2021" "2021" "2021" "1993" "2021" "2021"
## [11] "2021" "2021" "2021" "2021" "2021" "2021" "2020" "2020" "2021" "2021"
## [21] "2021" "2018" "1996" "2021" "1998" "2021" "1997" "2010" "2013" "2013"
## [31] "2021" "2021" "2020" "2021" "2020" "2021" "2021" "2018" "2017" "2021"
## [41] "2021" "1975" "1978" "1983" "1987" "2021" "2012" "2020" "2001" "2021"
## [51] "2014" "2002" "2003" "2004" "2001" "2021" "2011" "2008" "2009" "2007"
## [61] "2010" "2005" "2006" "2004" "2021" "2021" "2014" "1994" "2021" "2015"
## [71] "2021" "2021" "2021" "2018" "2021" "2021" "2013" "2021" "2020" "2021"
## [81] "2021" "2021" "2021" "2021" "2020" "2021" "2021" "2019" "2021" "2017"
## [91] "2019" "2021" "2021" "2021" "2018" "2021" "2018" "2021" "2021" "2021"
## [101] "2019" "2021" "2021" "2020" "2016" "2017" "2021" "2018" "2021" "2021"
## [111] "2021" "2021" "2021" "2021" "1994" "2009" "2015" "2021" "2017" "2020"
## [121] "2021" "2019" "2003" "2012" "2013" "2021" "2020" "2004" "2017" "2005"
## [131] "2021" "1982" "2021" "2015" "1994" "1993" "2003" "2001" "2010" "1989"
## [141] "2014" "2015" "2007" "2011" "1990" "1991" "1994" "2021" "2020" "1998"
## [151] "1999" "2005" "2016" "2016" "2015" "1986" "2010" "2018" "2003" "2010"
## [161] "1992" "1996" "2017" "2003" "1999" "2019" "1984" "2008" "2001" "2006"
## [171] "1997" "2017" "2003" "2015" "2003" "1980" "1986" "1961" "2014" "1996"
## [181] "2000" "2021" "2008" "1993" "2021" "2021" "2021" "2021" "2008" "2020"
## [191] "2021" "2017" "2008" "2021" "2002" "2008" "2021" "2021" "2021" "2006"
## [201] "2004" "2003" "2005" "2016" "2012" "2001" "2010" "2008" "2010" "2013"
## [211] "2011" "2014" "2016" "2021" "2021" "2007" "2011" "2011" "2021" "2021"
## [221] "2021" "2021" "2021" "2021" "2021" "2021" "2021" "2020" "2014" "2020"
## [231] "2021" "2021" "2019" "2021" "2021" "2021" "2021" "2021" "2021" "2021"
## [241] "2021" "2021" "2021" "2021" "2018" "2021" "2021" "2021" "2021" "2021"
## [251] "2020" "2011" "2021" "1995" "2021" "2021" "2020" "2015" "2020" "2018"
## [261] "2020" "2021" "2021" "2016" "2014" "2018" "2020" "1993" "2020" "2015"
## [271] "2021" "2021" "2021" "2021" "2021" "2021" "2021" "2021" "2021" "2021"
## [281] "2021" "2016" "2020" "2021" "2021" "2013" "2021" "2021" "2018" "2019"
## [291] "2021" "2021" "2012" "2021" "2020" "2021" "2021" "2021" "2020" "2021"
## [301] "2021" "2013" "2013" "1985" "2021" "1993" "2016" "2021" "2012" "2021"
## [311] "2021" "2021" "2021" "2009" "1995" "2010" "2011" "2021" "2021" "2005"
## [321] "2021" "2013" "2008" "2012" "2020" "1992" "1993" "2007" "2016" "2002"
## [331] "2009" "2020" "1999" "1986" "2019" "2006" "2010" "2007" "2014" "2021"
## [341] "2010" "1999" "1995" "1991" "1994" "2015" "2008" "2009" "2019" "2003"
## [351] "2000" "2004" "2016" "2013" "1991" "2011" "2010" "2004" "1995" "2000"
## [361] "2010" "2021" "2018" "2021" "2021" "2014" "2021" "2020" "2009" "2021"
## [371] "2021" "2009" "2021" "2021" "2013" "2021" "2021" "2021" "2019" "2021"
## [381] "2021" "2021" "2021" "2012" "2021" "2021" "2021" "2021" "2021" "2019"
## [391] "2019" "2020" "2012" "2021" "2021" "2021" "2021" "2021" "2021" "2021"
```

```
class(nt)
```

```
## [1] "spec_tbl_df" "tbl_df"      "tbl"        "data.frame"
```

```
class(nt$title)
```

```
## [1] "character"
```

```
class(nt$release_year)
```

```
## [1] "numeric"
```

#Part 3 #In this part, you are performing various operations on the nt dataframe. `colnames(nt)` retrieves and displays the column names of the nt dataframe. `head(nt)` displays the first few rows of the nt dataframe. `tail(nt)` displays the last few rows of the nt dataframe. `summary(nt)` provides summary statistics for each column in the nt dataframe. `sd(nt$release_year)` calculates the standard deviation of the release_year column. `var(nt$release_year)` calculates the variance of the release_year column. `range(nt$release_year)` gives the minimum and maximum values of the release_year column. `median(nt$release_year)` calculates the median of the release_year column. `skewness(nt$release_year)` calculates the skewness of the release_year column. `kurtosis(nt$release_year)` calculates the kurtosis of the release_year column. `rev(nt$release_year)` reverses the order of the release_year column. `cat` command prints the number of columns in the release_year column.

```
colnames(nt)
```

```
## [1] "show_id"      "type"         "title"        "director"     "cast"
## [6] "country"      "date_added"   "release_year" "rating"       "duration"
## [11] "listed_in"    "description"  "hero"
```

```
head(nt)
```

```
## # A tibble: 6 x 13
##   show_id type    title    director cast  country date_added release_year rating
##   <chr>   <chr>   <chr>   <chr>   <chr> <chr>   <chr>         <dbl> <chr>
## 1 s1      Movie    Dick Jo~ Kirsten~ <NA>   United~ September~ 2020 PG-13
## 2 s2      TV Show  Blood &~ <NA>    Ama ~ South ~ September~ 2021 TV-MA
## 3 s3      TV Show  Ganglan~ Julien ~ Sami~ <NA>   September~ 2021 TV-MA
## 4 s4      TV Show  Jailbir~ <NA>    <NA>   <NA>   September~ 2021 TV-MA
## 5 s5      TV Show  Kota Fa~ <NA>    Mayu~ India  September~ 2021 TV-MA
## 6 s6      TV Show  Midnigh~ Mike Fl~ Kate~ <NA>   September~ 2021 TV-MA
## # i 4 more variables: duration <chr>, listed_in <chr>, description <chr>,
## #   hero <chr>
```

```
tail(nt)
```

```
## # A tibble: 6 x 13
##   show_id type    title    director cast  country date_added release_year rating
##   <chr>   <chr>   <chr>   <chr>   <chr> <chr>   <chr>         <dbl> <chr>
## 1 s8802  Movie    Zinzana Majid A~ Ali ~ United~ March 9, ~ 2015 TV-MA
## 2 s8803  Movie    Zodiac  David F~ Mark~ United~ November ~ 2007 R
## 3 s8804  TV Show  Zombie ~ <NA>    <NA>   <NA>   July 1, 2~ 2018 TV-Y7
```

```
## 4 s8805    Movie    Zombiel~ Ruben F~ Jess~ United~ November ~      2009 R
## 5 s8806    Movie    Zoom      Peter H~ Tim ~ United~ January 1~      2006 PG
## 6 s8807    Movie    Zubaan    Mozez S~ Vick~ India   March 2, ~      2015 TV-14
## # i 4 more variables: duration <chr>, listed_in <chr>, description <chr>,
## #   hero <chr>
```

```
summary(nt)
```

```
##      show_id          type          title          director
## Length:8807      Length:8807      Length:8807      Length:8807
## Class :character  Class :character  Class :character  Class :character
## Mode  :character  Mode  :character  Mode  :character  Mode  :character
##
##
##
##      cast          country      date_added      release_year
## Length:8807      Length:8807      Length:8807      Min.   :1925
## Class :character  Class :character  Class :character  1st Qu.:2013
## Mode  :character  Mode  :character  Mode  :character  Median :2017
##                                     Mean   :2014
##                                     3rd Qu.:2019
##                                     Max.   :2021
##
##      rating      duration      listed_in      description
## Length:8807      Length:8807      Length:8807      Length:8807
## Class :character  Class :character  Class :character  Class :character
## Mode  :character  Mode  :character  Mode  :character  Mode  :character
##
##
##
##      hero
## Length:8807
## Class :character
## Mode  :character
##
##
##
```

```
sd(nt$release_year)
```

```
## [1] 8.819312
```

```
var(nt$release_year)
```

```
## [1] 77.78027
```

```
range(nt$release_year)
```

```
## [1] 1925 2021
```

```
quantile(nt$release_year, 1/2)
```

```
## 50%  
## 2017
```

```
skewness(nt$release_year)
```

```
## [1] -3.445978
```

```
kurtosis(nt$release_year)
```

```
## [1] 19.22233
```

```
rev(nt$release_year)
```

```
## [1] 2015 2006 2009 2018 2007 2015 2012 2009 2014 2016 2016 2015 2016 2005  
## [15] 1973 2011 2008 2009 2015 2017 2017 2016 2015 2016 2016 2016 2015 2015  
## [29] 2012 2010 2014 2018 2018 2006 2013 2011 2001 2008 2001 2005 2002 2017  
## [43] 1994 1943 2016 2015 2013 2015 2017 2006 2019 2010 2016 2017 2019 2014  
## [57] 2010 2014 1981 2016 2017 1971 2017 2018 1999 2013 2015 1943 2016 2016  
## [71] 2011 1967 2017 2016 2018 2015 2017 2000 2016 2013 2017 2002 2018 2017  
## [85] 2000 2012 2016 2017 2019 1967 2017 2014 2016 2015 2016 2016 2012 1983  
## [99] 2015 2017 2018 2016 2018 2015 2018 2017 2014 2015 2014 2016 2011 2013  
## [113] 2007 2017 2017 2016 2017 2005 2015 2016 2013 2018 2016 2018 2004 2014  
## [127] 2017 2013 2016 2016 2018 2015 2017 2016 2018 2016 2008 1995 2005 2016  
## [141] 2018 2017 2009 2011 2017 2012 1943 2016 2013 2017 2017 2006 2016 2015  
## [155] 2013 2008 2015 2016 2018 2015 2018 2018 1990 2010 2014 2013 1944 2012  
## [169] 2010 2015 2017 1969 2017 2017 2017 2019 2014 1995 1985 2016 2018 2015  
## [183] 2004 2001 1995 1990 2015 2017 2016 2014 2014 2008 1996 2016 2007 2007  
## [197] 2015 2016 2016 2001 2016 2018 2018 1997 2001 2017 2018 2015 1995 2016  
## [211] 2014 2018 2014 2014 2009 2013 2017 2016 2017 1947 2017 2010 2016 2010  
## [225] 2010 2011 2017 2017 2015 2015 2017 2015 2014 2016 1988 2017 2016 1985  
## [239] 2016 2009 2017 2018 1999 2017 2016 2016 2010 2018 2015 2005 2017 2006  
## [253] 1998 2007 2014 2007 2015 2017 2015 2013 2016 2009 2017 2011 2009 1963  
## [267] 2002 2010 2016 2015 2016 1996 2017 2016 2009 2002 2017 2016 2013 1974  
## [281] 1999 2009 2018 1989 2017 2015 2017 2017 2017 2015 2019 2010 1978 2013  
## [295] 2016 2010 2017 2013 2015 2014 1955 2017 2014 2015 2014 2019 2016 2015  
## [309] 2001 2012 2014 2015 2011 2014 2011 2016 2017 1994 2016 2014 2002 2011  
## [323] 2016 2016 2015 2015 2016 2017 2016 2015 2006 2010 2016 1997 2008 2009  
## [337] 2018 2006 2019 2017 2009 2004 2014 2004 2017 2004 2012 2015 2012 2012  
## [351] 2017 2014 2006 2013 2004 2012 2018 1993 1997 2016 2001 2010 2008 2014  
## [365] 2012 2018 2016 2017 2018 2021 1944 1984 1988 1991 2017 2015 2011 2017  
## [379] 2018 2015 2016 2016 2017 2012 2016 2015 2009 1944 2017 2018 2003 2003  
## [393] 1999 1998 2009 2012 2017 1993 1982 2016 2008 2002 2003 2014 2008 1974  
## [407] 2019 2017 2015 2015 2006 2015 2018 2017 2013 2016 2017 2019 2018 2014  
## [421] 2018 2016 2010 1992 2016 2017 2006 2017 2009 2010 2019 2017 2013 2010  
## [435] 2007 2010 2015 2011 2008 2015 2018 2009 2018 2016 2009 1995 2018 2018  
## [449] 2014 2010 2009 2016 2018 2015 2014 2017 2013 2015 2016 2015 2005 2016  
## [463] 2017 2015 2017 2011 2018 2017 2008 2017 2013 2011 2013 2005 1979 2018  
## [477] 2018 2014 2015 2015 2014 2009 2016 2017 2018 2016 2011 2019 2018 2003  
## [491] 2007 2015 2013 2016 2016 2017 2014 2017 2017 2008 1975 2000 1994 1978
```

##	[505]	2016	1996	2019	2014	2009	2009	2010	2018	2015	2012	2016	2016	1981	2017
##	[519]	2015	2016	2015	2007	2005	2016	2011	2016	2009	2015	2018	2013	2012	2017
##	[533]	2017	2017	2006	2015	2017	2015	2016	2018	1982	2011	2009	2015	2016	1992
##	[547]	1970	1994	2013	2016	1996	2011	2013	2016	2018	2010	2011	1965	2016	2013
##	[561]	2015	2016	2010	2017	2016	2016	2017	2017	2017	1977	2014	2018	2017	2019
##	[575]	2017	1983	2013	2007	2005	2017	2006	2017	2019	2007	2008	2016	2009	2010
##	[589]	2015	2010	2011	2016	2001	2016	2015	2016	2018	2015	2011	2016	2012	1942
##	[603]	2018	1993	2016	2015	2017	2009	2016	2016	2000	2013	2015	2014	2010	2019
##	[617]	2019	1967	2005	1995	2016	2007	2011	2005	2015	2016	2010	2015	2018	2016
##	[631]	2016	2018	2005	2019	2015	2012	2016	2017	2015	2009	2003	2010	2015	2017
##	[645]	2016	2010	1990	1991	2007	2016	2010	2017	2016	2013	2005	1999	2015	2014
##	[659]	1993	2018	2011	2008	1999	2010	1980	2016	2016	2017	2007	2018	1977	2016
##	[673]	2017	2017	2020	2016	1999	2016	2006	1972	2007	2020	2014	2017	2018	2019
##	[687]	2014	2015	2019	2018	2014	2014	2018	2011	2015	2019	2002	2018	2016	2017
##	[701]	1996	1981	2016	1992	2015	2006	2019	2020	2017	2015	2014	2014	2017	2010
##	[715]	2015	2010	2010	2017	2018	2008	2006	2015	2013	2014	2017	2015	2015	2019
##	[729]	2018	2015	2003	2002	2001	2018	2012	2015	2018	2018	2018	2007	2019	2017
##	[743]	2013	1976	2014	2016	2019	2011	2016	2016	2014	2003	2017	2009	2018	2018
##	[757]	1991	2013	2018	2005	2016	2015	2017	2008	1998	2015	2018	1993	1996	2004
##	[771]	2015	2010	2014	2016	2016	2016	2016	2014	2015	2016	2017	2017	2015	2013
##	[785]	2018	2008	2015	2016	2012	2018	2014	2008	2017	2004	2017	2016	2009	2013
##	[799]	2016	2017	2018	2016	1990	2009	2017	2010	2019	2008	2011	2002	2002	2012
##	[813]	2002	1986	2011	2016	2019	1999	2016	2008	2010	2011	2015	2017	2016	2010
##	[827]	2012	2014	2014	2013	2014	2013	2013	2014	2013	2013	2013	2015	2014	2007
##	[841]	2011	2012	1993	2012	2000	1997	2010	1998	1988	1993	2013	2000	1955	2018
##	[855]	2017	2014	2019	2013	2015	2018	2017	2017	1982	2012	2014	2018	2008	2017
##	[869]	2005	2016	2015	2010	2010	2014	1964	2008	1945	2018	2018	2013	2017	2017
##	[883]	2014	2007	2016	2016	2012	2016	2014	1983	2016	2014	2013	1982	2003	2016
##	[897]	2016	2013	2013	2015	1998	2018	2018	1999	2004	2005	1995	2016	2017	2004
##	[911]	2016	1998	1968	2016	2016	2012	2017	2015	2014	2015	2018	2014	2017	1990
##	[925]	1985	1982	1979	1976	1985	2018	2016	2015	2010	2011	2010	2013	2017	2015
##	[939]	2008	2016	2012	2008	2017	2014	2017	2016	1980	2016	2017	2010	2014	2017
##	[953]	2010	2015	2015	2012	2017	2015	2016	2015	2017	2017	1984	2016	2016	2018
##	[967]	2004	1955	2015	2011	2011	2015	2016	2017	2010	2018	2005	2018	2012	1985
##	[981]	2018	1974	1996	2016	2015	2015	1980	2015	2013	2008	2009	2012	2008	2018
##	[995]	2017	2015	2009	2008	2015	2019	2014	2011	2012	2014	1994	2000	2016	2019
##	[1009]	2011	2018	2017	2017	1984	1996	2015	2013	1942	2013	2013	2013	2013	1996
##	[1023]	2002	1997	2001	2012	2012	2012	2014	2014	2011	2011	2011	2011	2005	2009
##	[1037]	2007	2003	2006	1999	2000	2008	1998	2004	2016	2015	2016	2010	2018	2016
##	[1051]	2018	1980	2018	2018	1980	1986	2016	2010	2006	2016	2018	1998	2002	1946
##	[1065]	2017	2018	2018	2017	2012	2009	2015	1993	2015	2018	2018	2016	2016	2016
##	[1079]	2007	2017	2016	2016	2006	2016	1988	1990	2013	2009	2010	2016	2009	2014
##	[1093]	1992	2017	2011	1992	2003	2015	1990	2017	1997	2016	2007	2018	2000	2002
##	[1107]	2015	2015	2011	1988	2016	2002	2007	2016	2007	2017	2007	2016	2015	2006
##	[1121]	2018	2017	2018	2019	2014	2017	2017	2018	1984	2016	2018	2012	2012	2018
##	[1135]	2016	2016	2016	2006	2015	2013	2018	2016	2017	2018	2017	2013	2016	1968
##	[1149]	2019	2018	2018	2018	2018	2016	2017	1983	2012	2018	2013	2017	2014	2015
##	[1163]	2012	2011	2016	2015	2017	2004	2007	1960	2018	2009	2014	2016	2016	2013
##	[1177]	2013	2016	2015	2011	2015	2012	2018	2016	2009	2016	1995	2017	2012	2018
##	[1191]	2018	2017	2018	2017	2017	2017	2017	2017	2018	2017	2017	2018	2017	2017
##	[1205]	2017	2017	2018	2017	2017	2004	2019	2019	2020	2016	2007	2018	2005	1997
##	[1219]	1981	2008	2016	2014	2013	2018	2017	2007	2016	2004	2018	2016	2016	1945
##	[1233]	2015	2016	2009	2009	2016	2016	2018	2015	2016	2016	2004	2016	1993	2016
##	[1247]	2017	2011	2016	1982	2016	2017	2016	2006	2017	1999	2014	2011	2012	2013

##	[1261]	2009	2015	2001	2013	2014	2015	2017	2016	2017	2015	2015	2016	2013	2017
##	[1275]	2005	2010	1962	2017	2017	2007	2014	2014	2004	2012	2012	2013	2007	1984
##	[1289]	2015	2002	2016	2013	2017	2016	2011	2013	2016	2015	2015	2016	2009	2011
##	[1303]	2013	2005	2012	2013	2013	2010	2015	2016	2012	2014	2011	2013	2014	2012
##	[1317]	2015	2013	2017	2017	2016	2014	1997	2015	2016	2003	2014	2017	2019	2015
##	[1331]	2017	2016	2015	2014	2018	2017	2016	2015	2015	2011	2017	2014	2015	2015
##	[1345]	2016	2012	2004	2013	2017	2014	2008	1996	2016	2018	2016	2015	2009	2016
##	[1359]	2018	2015	2018	2009	2016	2002	1997	2018	2017	2003	2016	2017	2012	2013
##	[1373]	2017	1985	2017	1973	2016	2016	1988	2017	2016	2017	2014	2013	2006	2017
##	[1387]	2016	1983	2016	2018	2017	2013	2014	2016	2017	2002	1986	2018	2019	2016
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##	[7645]	2020	2020	1998	2018	2013	2021	2021	2021	2012	2013	2020	2021	2021	2005
##	[7659]	2015	2020	2021	2018	2008	2021	2017	2016	1999	2009	2002	2019	2021	2010
##	[7673]	2017	2016	2017	2017	2017	2016	2017	2021	1964	2017	1996	2021	2020	2001
##	[7687]	2016	2015	2010	2019	2020	2012	2009	2009	2017	2008	2021	2021	2021	2018
##	[7701]	2019	2021	2012	2018	2006	2013	2020	2020	2021	2020	2021	2021	2021	2021
##	[7715]	2021	2021	2020	2021	2021	2021	2016	2021	2020	2020	2021	2018	2021	2020
##	[7729]	2017	2019	2018	2021	2019	2018	2018	2017	2021	2020	2019	2020	2021	2019
##	[7743]	2016	2019	2021	2020	2020	2018	2021	2021	2015	1981	2020	2014	2012	2003
##	[7757]	2021	2019	2020	2018	2019	2020	2021	2006	2019	2016	2016	2020	2016	2021
##	[7771]	2017	2017	2020	2013	2021	2020	2020	2013	2021	2015	2021	2021	2021	2021
##	[7785]	2007	2010	2004	2001	2008	2010	2011	1992	2019	2016	2021	2014	2019	2020
##	[7799]	2019	2017	2018	2013	2021	2021	2021	2015	2020	2021	2021	2021	2021	2001
##	[7813]	2020	2021	2020	2020	2015	2017	2021	2019	2016	2015	2015	2021	2015	2004
##	[7827]	2015	2013	2014	2016	2017	2021	2019	2020	2021	2018	2011	2014	2021	2021
##	[7841]	2021	2021	2021	2021	2018	2021	2021	2021	2019	2021	2008	1992	2018	2016
##	[7855]	2000	2002	2009	2011	2018	2009	1994	2020	2018	2008	2003	2013	2014	2013
##	[7869]	2019	2017	2020	2012	2018	2009	2010	2005	2010	2017	1989	2010	2006	2010
##	[7883]	2020	2021	2018	2018	2020	2021	2021	2019	2013	2020	2017	2020	2021	2017
##	[7897]	2021	2021	2021	2020	1999	2021	2017	2021	2021	2019	2021	2020	2020	2021
##	[7911]	2021	2021	2021	2020	2018	2004	2021	2021	2021	2020	2020	2018	2021	2021
##	[7925]	2021	2021	2021	2021	2021	2021	2021	2020	2021	2021	2016	2021	2021	2021
##	[7939]	1997	1998	2017	2014	2006	2011	2021	2021	2020	2011	2009	2021	2020	2021
##	[7953]	2021	2021	2021	2021	2021	2020	2021	2021	2015	2014	2021	2016	2021	2021
##	[7967]	2021	2018	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2016	2021
##	[7981]	2021	2020	2018	2019	2019	2018	2021	1976	1996	2015	2005	2015	1981	1993
##	[7995]	2001	2021	1984	2004	2014	2017	2017	2021	2006	2006	2009	2011	2012	2004
##	[8009]	1997	2001	2011	2012	2019	1997	2010	2008	2015	2015	2001	2003	2013	2021
##	[8023]	2011	2021	1997	2021	2019	2000	2013	2009	2001	2012	2020	2019	2021	2021
##	[8037]	2021	2020	2021	2021	2021	2021	2021	2021	2021	2021	2015	2015	2021	2021
##	[8051]	2020	2021	2018	2007	2014	2018	2021	2021	2021	2013	2021	2019	2021	2014

##	[8065]	2021	2012	2014	2021	2021	2021	2021	2021	2021	2016	2021	2021	2021	2021
##	[8079]	2021	2020	2014	2021	2021	2014	2005	2020	2021	2021	2013	2021	1972	2021
##	[8093]	2021	2020	2020	2021	2021	2020	2016	2021	2021	2019	2018	2021	2012	2019
##	[8107]	2021	2021	2020	2021	2021	2015	2019	2021	2021	2021	2021	1981	2020	2021
##	[8121]	2021	2021	2021	2021	2021	2018	2020	2018	2018	2020	2019	2018	2019	2019
##	[8135]	1988	1982	1981	2020	2018	2015	2020	2020	2020	2019	2018	2018	2021	2018
##	[8149]	2021	2001	2015	2016	2014	2021	2004	2003	2016	2019	2021	2021	2021	2021
##	[8163]	2021	2021	2021	2021	2021	2021	2021	2021	2021	2010	2019	2018	2019	2021
##	[8177]	2012	2020	2021	2020	2021	2021	2021	2021	2019	2020	2019	2020	2021	2021
##	[8191]	2019	1998	1998	2020	2009	2012	2003	2010	2002	2008	2006	1980	2003	1989
##	[8205]	1986	1984	1997	2019	2010	2006	2019	1999	2009	2000	2010	2008	2016	2019
##	[8219]	2018	2020	1992	2018	2001	2011	2016	1995	2021	1988	2005	2021	2019	2010
##	[8233]	2011	2008	2019	2021	2021	2019	1993	1995	2000	2020	1997	1999	1997	2002
##	[8247]	2021	1997	2012	2018	2021	2013	2020	2019	2020	2021	2021	2020	2020	2021
##	[8261]	2021	2020	2021	2020	1959	2018	2020	2020	2021	2018	2018	2015	2019	2021
##	[8275]	2019	2018	2015	1976	2012	2016	2019	2018	2019	2019	2015	2021	2021	2020
##	[8289]	2020	2017	2021	2019	2019	2018	2007	2017	2016	2019	2019	2019	2021	2020
##	[8303]	2021	2021	2010	2020	2021	2021	2020	2021	2014	2019	2015	2021	2018	2017
##	[8317]	2021	2017	2021	2021	2016	2021	2021	2021	2021	2021	2020	2021	2021	2021
##	[8331]	2016	2019	2015	2020	2021	2021	2021	2019	2021	2021	2021	2021	2021	2021
##	[8345]	2019	2019	2007	2021	2021	2021	2019	2021	1983	2021	2021	2008	2009	2010
##	[8359]	2012	2011	2017	2017	2021	1999	2021	2021	2021	2021	2020	2021	2021	2019
##	[8373]	2020	2020	2021	2021	2021	2020	2021	2019	2021	2019	2012	2011	2011	2014
##	[8387]	2012	2010	2019	2015	2013	2009	2012	2013	2013	2013	2013	2010	2011	2009
##	[8401]	2013	2015	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021
##	[8415]	2012	2020	2019	2019	2021	2021	2021	2021	2021	2012	2021	2021	2021	2021
##	[8429]	2019	2021	2021	2021	2013	2021	2021	2009	2021	2021	2009	2020	2021	2014
##	[8443]	2021	2021	2018	2021	2010	2000	1995	2004	2010	2011	1991	2013	2016	2004
##	[8457]	2000	2003	2019	2009	2008	2015	1994	1991	1995	1999	2010	2021	2014	2007
##	[8471]	2010	2006	2019	1986	1999	2020	2009	2002	2016	2007	1993	1992	2020	2012
##	[8485]	2008	2013	2021	2005	2021	2021	2011	2010	1995	2009	2021	2021	2021	2021
##	[8499]	2012	2021	2016	1993	2021	1985	2013	2013	2021	2021	2020	2021	2021	2021
##	[8513]	2020	2021	2012	2021	2021	2019	2018	2021	2021	2013	2021	2021	2020	2016
##	[8527]	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2021	2015	2020	1993
##	[8541]	2020	2018	2014	2016	2021	2021	2020	2018	2020	2015	2020	2021	2021	1995
##	[8555]	2021	2011	2020	2021	2021	2021	2021	2021	2018	2021	2021	2021	2021	2021
##	[8569]	2021	2021	2021	2021	2021	2021	2019	2021	2021	2020	2014	2020	2021	2021
##	[8583]	2021	2021	2021	2021	2021	2021	2021	2011	2011	2007	2021	2021	2016	2014
##	[8597]	2011	2013	2010	2008	2010	2001	2012	2016	2005	2003	2004	2006	2021	2021
##	[8611]	2021	2008	2002	2021	2008	2017	2021	2020	2008	2021	2021	2021	2021	1993
##	[8625]	2008	2021	2000	1996	2014	1961	1986	1980	2003	2015	2003	2017	1997	2006
##	[8639]	2001	2008	1984	2019	1999	2003	2017	1996	1992	2010	2003	2018	2010	1986
##	[8653]	2015	2016	2016	2005	1999	1998	2020	2021	1994	1991	1990	2011	2007	2015
##	[8667]	2014	1989	2010	2001	2003	1993	1994	2015	2021	1982	2021	2005	2017	2004
##	[8681]	2020	2021	2013	2012	2003	2019	2021	2020	2017	2021	2015	2009	1994	2021
##	[8695]	2021	2021	2021	2021	2021	2018	2021	2017	2016	2020	2021	2021	2019	2021
##	[8709]	2021	2021	2018	2021	2018	2021	2021	2021	2019	2017	2021	2019	2021	2021
##	[8723]	2020	2021	2021	2021	2021	2021	2020	2021	2013	2021	2021	2018	2021	2021
##	[8737]	2021	2015	2021	1994	2014	2021	2021	2004	2006	2005	2010	2007	2009	2008
##	[8751]	2011	2021	2001	2004	2003	2002	2014	2021	2001	2020	2012	2021	1987	1983
##	[8765]	1978	1975	2021	2021	2017	2018	2021	2021	2020	2021	2020	2021	2021	2013
##	[8779]	2013	2010	1997	2021	1998	2021	1996	2018	2021	2021	2021	2020	2020	2021
##	[8793]	2021	2021	2021	2021	2021	2021	2021	1993	2021	2021	2021	2021	2021	2021
##	[8807]	2020													

```
cat("\nColumn:",ncol(nt$release_year))
```

```
##  
## Column:
```

#Part 4 We modified a column Hero and added abc, def, ghi, ijk #In this part, you are performing various operations on the nt dataframe. nrow(nt) returns the number of rows in the nt dataframe. ncol(nt) returns the number of columns in the nt dataframe. str(nt) provides information about the structure of the nt dataframe. grep("ab", nt\$hero) searches for the pattern "ab" in the hero column and returns the indices where it is found. grepl("hi", nt[3,]) checks if the pattern "hi" is present in the third row of the dataframe nt and returns a logical vector. toupper(nt[4,13]) converts the value in the fourth row and thirteenth column to uppercase. tolower(nt[4,13]) converts the value in the fourth row and thirteenth column to lowercase. substring(nt[5,12], 0, 30) extracts a substring from the value in the fifth row and twelfth column, starting from position 0 and ending at position 30.

```
nrow(nt)
```

```
## [1] 8807
```

```
ncol(nt)
```

```
## [1] 13
```

```
str(nt)
```

```
## spc_tbl_ [8,807 x 13] (S3: spec_tbl_df/tbl_df/tbl/data.frame)  
## $ show_id      : chr [1:8807] "s1" "s2" "s3" "s4" ...  
## $ type         : chr [1:8807] "Movie" "TV Show" "TV Show" "TV Show" ...  
## $ title        : chr [1:8807] "Dick Johnson Is Dead" "Blood & Water" "Ganglands" "Jailbirds New Orleans"  
## $ director     : chr [1:8807] "Kirsten Johnson" NA "Julien Leclercq" NA ...  
## $ cast         : chr [1:8807] NA "Ama Qamata, Khosi Ngema, Gail Mablane, Thabang Molaba, Dillon Windass"  
## $ country      : chr [1:8807] "United States" "South Africa" NA NA ...  
## $ date_added   : chr [1:8807] "September 25, 2021" "September 24, 2021" "September 24, 2021" "September 24, 2021"  
## $ release_year : num [1:8807] 2020 2021 2021 2021 2021 ...  
## $ rating       : chr [1:8807] "PG-13" "TV-MA" "TV-MA" "TV-MA" ...  
## $ duration     : chr [1:8807] "90 min" "2 Seasons" "1 Season" "1 Season" ...  
## $ listed_in    : chr [1:8807] "Documentaries" "International TV Shows, TV Dramas, TV Mysteries" "Crime TV Shows"  
## $ description  : chr [1:8807] "As her father nears the end of his life, filmmaker Kirsten Johnson st..."  
## $ hero         : chr [1:8807] "abc" "def" "ghi" "ijk" ...  
## - attr(*, "spec")=  
## .. cols(  
## ..   show_id = col_character(),  
## ..   type = col_character(),  
## ..   title = col_character(),  
## ..   director = col_character(),  
## ..   cast = col_character(),  
## ..   country = col_character(),  
## ..   date_added = col_character(),  
## ..   release_year = col_double(),  
## ..   rating = col_character(),  
## ..   duration = col_character(),
```

```
## .. listed_in = col_character(),
## .. description = col_character(),
## .. hero = col_character()
## .. )
## - attr(*, "problems")=<externalptr>
```

```
grep("ab",nt$hero)
```

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

```
grepl("hi",nt[3,])
```

```
## [1] FALSE FALSE FALSE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE TRUE
## [13] TRUE
```

```
toupper(nt[4,13])
```

```
## [1] "IJK"
```

```
tolower(nt[4,13])
```

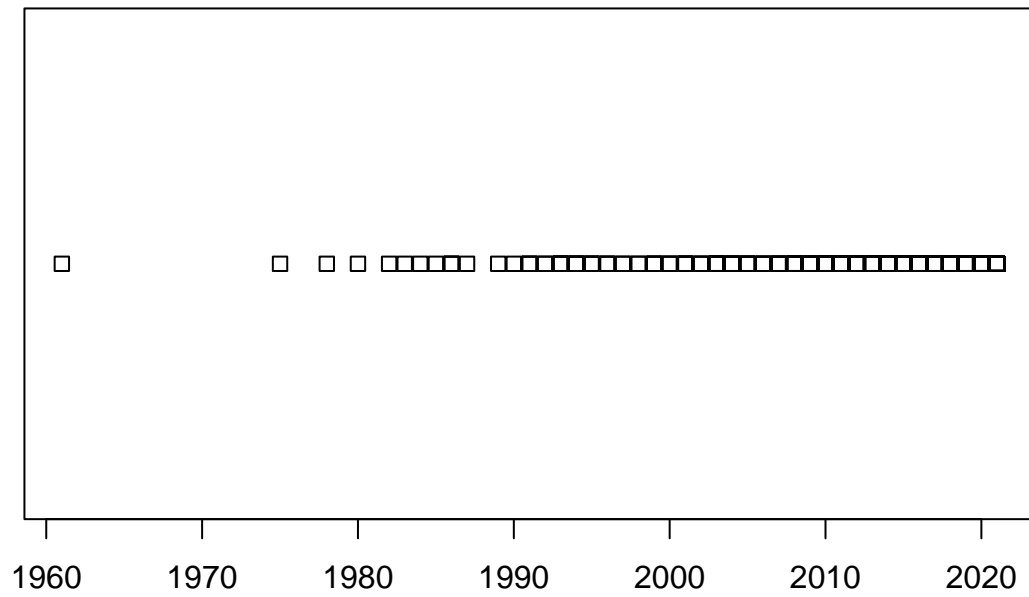
```
## [1] "ijk"
```

```
substring(nt[5,12],0,30)
```

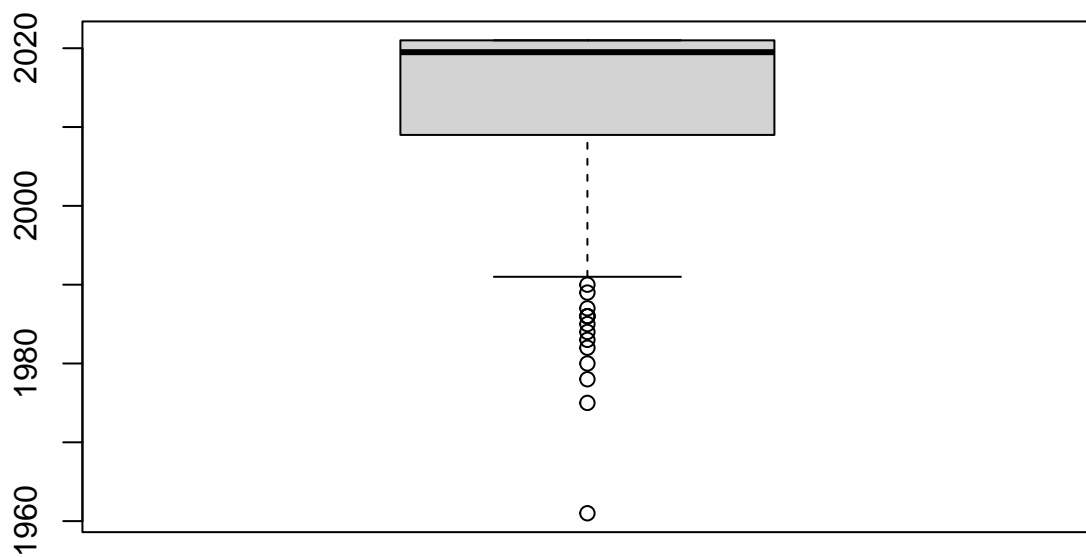
```
## [1] "In a city of coaching centers "
```

#Part 5 *#In this part, you are performing various operations on the nt dataframe. plot(nt[1:400,8]) creates a plot of the values in the eighth column of the first 400 rows. boxplot(nt[1:400,8]) creates a boxplot of the values in the eighth column of the first 400 rows. table(nt[1:400,8][nt[1:400,8] > 4000]) counts the occurrences of values greater than 4000 in the eighth column of the first 400 rows. scale(nt[1:400,8]) standardizes the values in the eighth column of the first 400 rows. cummax(nt\$release_year) calculates the cumulative maximum of the release_year column. cumsum(nt\$release_year) calculates the cumulative sum of the release_year column.*

```
plot(nt[1:400,8])
```



```
boxplot(nt[1:400,8])
```



```
table(nt[1:400,8][nt[1:400,8] > 4000])
```

```
## < table of extent 0 >
```

```
scale(nt[1:400,8])
```

```
##      release_year
## [1,]  0.61344459
## [2,]  0.71128264
## [3,]  0.71128264
## [4,]  0.71128264
## [5,]  0.71128264
## [6,]  0.71128264
## [7,]  0.71128264
## [8,] -2.02818282
## [9,]  0.71128264
## [10,] 0.71128264
## [11,] 0.71128264
## [12,] 0.71128264
## [13,] 0.71128264
## [14,] 0.71128264
## [15,] 0.71128264
## [16,] 0.71128264
## [17,] 0.61344459
## [18,] 0.61344459
```

```
## [19,] 0.71128264
## [20,] 0.71128264
## [21,] 0.71128264
## [22,] 0.41776848
## [23,] -1.73466866
## [24,] 0.71128264
## [25,] -1.53899256
## [26,] 0.71128264
## [27,] -1.63683061
## [28,] -0.36493593
## [29,] -0.07142178
## [30,] -0.07142178
## [31,] 0.71128264
## [32,] 0.71128264
## [33,] 0.61344459
## [34,] 0.71128264
## [35,] 0.61344459
## [36,] 0.71128264
## [37,] 0.71128264
## [38,] 0.41776848
## [39,] 0.31993043
## [40,] 0.71128264
## [41,] 0.71128264
## [42,] -3.78926775
## [43,] -3.49575360
## [44,] -3.00656334
## [45,] -2.61521113
## [46,] 0.71128264
## [47,] -0.16925983
## [48,] 0.61344459
## [49,] -1.24547840
## [50,] 0.71128264
## [51,] 0.02641627
## [52,] -1.14764035
## [53,] -1.04980230
## [54,] -0.95196425
## [55,] -1.24547840
## [56,] 0.71128264
## [57,] -0.26709788
## [58,] -0.56061204
## [59,] -0.46277399
## [60,] -0.65845009
## [61,] -0.36493593
## [62,] -0.85412619
## [63,] -0.75628814
## [64,] -0.95196425
## [65,] 0.71128264
## [66,] 0.71128264
## [67,] 0.02641627
## [68,] -1.93034477
## [69,] 0.71128264
## [70,] 0.12425433
## [71,] 0.71128264
## [72,] 0.71128264
```

```
## [73,] 0.71128264
## [74,] 0.41776848
## [75,] 0.71128264
## [76,] 0.71128264
## [77,] -0.07142178
## [78,] 0.71128264
## [79,] 0.61344459
## [80,] 0.71128264
## [81,] 0.71128264
## [82,] 0.71128264
## [83,] 0.71128264
## [84,] 0.71128264
## [85,] 0.61344459
## [86,] 0.71128264
## [87,] 0.71128264
## [88,] 0.51560653
## [89,] 0.71128264
## [90,] 0.31993043
## [91,] 0.51560653
## [92,] 0.71128264
## [93,] 0.71128264
## [94,] 0.71128264
## [95,] 0.41776848
## [96,] 0.71128264
## [97,] 0.41776848
## [98,] 0.71128264
## [99,] 0.71128264
## [100,] 0.71128264
## [101,] 0.51560653
## [102,] 0.71128264
## [103,] 0.71128264
## [104,] 0.61344459
## [105,] 0.22209238
## [106,] 0.31993043
## [107,] 0.71128264
## [108,] 0.41776848
## [109,] 0.71128264
## [110,] 0.71128264
## [111,] 0.71128264
## [112,] 0.71128264
## [113,] 0.71128264
## [114,] 0.71128264
## [115,] -1.93034477
## [116,] -0.46277399
## [117,] 0.12425433
## [118,] 0.71128264
## [119,] 0.31993043
## [120,] 0.61344459
## [121,] 0.71128264
## [122,] 0.51560653
## [123,] -1.04980230
## [124,] -0.16925983
## [125,] -0.07142178
## [126,] 0.71128264
```

```
## [127,] 0.61344459
## [128,] -0.95196425
## [129,] 0.31993043
## [130,] -0.85412619
## [131,] 0.71128264
## [132,] -3.10440139
## [133,] 0.71128264
## [134,] 0.12425433
## [135,] -1.93034477
## [136,] -2.02818282
## [137,] -1.04980230
## [138,] -1.24547840
## [139,] -0.36493593
## [140,] -2.41953503
## [141,] 0.02641627
## [142,] 0.12425433
## [143,] -0.65845009
## [144,] -0.26709788
## [145,] -2.32169697
## [146,] -2.22385892
## [147,] -1.93034477
## [148,] 0.71128264
## [149,] 0.61344459
## [150,] -1.53899256
## [151,] -1.44115451
## [152,] -0.85412619
## [153,] 0.22209238
## [154,] 0.22209238
## [155,] 0.12425433
## [156,] -2.71304918
## [157,] -0.36493593
## [158,] 0.41776848
## [159,] -1.04980230
## [160,] -0.36493593
## [161,] -2.12602087
## [162,] -1.73466866
## [163,] 0.31993043
## [164,] -1.04980230
## [165,] -1.44115451
## [166,] 0.51560653
## [167,] -2.90872529
## [168,] -0.56061204
## [169,] -1.24547840
## [170,] -0.75628814
## [171,] -1.63683061
## [172,] 0.31993043
## [173,] -1.04980230
## [174,] 0.12425433
## [175,] -1.04980230
## [176,] -3.30007749
## [177,] -2.71304918
## [178,] -5.15900048
## [179,] 0.02641627
## [180,] -1.73466866
```



```
## [181,] -1.34331645
## [182,]  0.71128264
## [183,] -0.56061204
## [184,] -2.02818282
## [185,]  0.71128264
## [186,]  0.71128264
## [187,]  0.71128264
## [188,]  0.71128264
## [189,] -0.56061204
## [190,]  0.61344459
## [191,]  0.71128264
## [192,]  0.31993043
## [193,] -0.56061204
## [194,]  0.71128264
## [195,] -1.14764035
## [196,] -0.56061204
## [197,]  0.71128264
## [198,]  0.71128264
## [199,]  0.71128264
## [200,] -0.75628814
## [201,] -0.95196425
## [202,] -1.04980230
## [203,] -0.85412619
## [204,]  0.22209238
## [205,] -0.16925983
## [206,] -1.24547840
## [207,] -0.36493593
## [208,] -0.56061204
## [209,] -0.36493593
## [210,] -0.07142178
## [211,] -0.26709788
## [212,]  0.02641627
## [213,]  0.22209238
## [214,]  0.71128264
## [215,]  0.71128264
## [216,] -0.65845009
## [217,] -0.26709788
## [218,] -0.26709788
## [219,]  0.71128264
## [220,]  0.71128264
## [221,]  0.71128264
## [222,]  0.71128264
## [223,]  0.71128264
## [224,]  0.71128264
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cummax(nt$release_year)
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[illegible]

[illegible]

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[illegible]

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[illegible]

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cumsum(nt$release_year)
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##	[33]	66559	68580	70600	72621	74642	76660	78677	80698
##	[41]	82719	84694	86672	88655	90642	92663	94675	96695
##	[49]	98696	100717	102731	104733	106736	108740	110741	112762
##	[57]	114773	116781	118790	120797	122807	124812	126818	128822
##	[65]	130843	132864	134878	136872	138893	140908	142929	144950
##	[73]	146971	148989	151010	153031	155044	157065	159085	161106
##	[81]	163127	165148	167169	169190	171210	173231	175252	177271
##	[89]	179292	181309	183328	185349	187370	189391	191409	193430
##	[97]	195448	197469	199490	201511	203530	205551	207572	209592
##	[105]	211608	213625	215646	217664	219685	221706	223727	225748
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##	[193]	388346	390367	392369	394377	396398	398419	400440	402446
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##	[217]	436629	438640	440661	442682	444703	446724	448745	450766
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##	[7673]	15459718	15461736	15463748	15465760	15467778	15469794	15471778	15473796
##	[7681]	15475813	15477830	15479844	15481863	15483881	15485898	15487916	15489922
##	[7689]	15491937	15493953	15495960	15497977	15499984	15502000	15504007	15506009
##	[7697]	15508025	15510013	15512024	15514039	15516054	15518056	15520056	15522074
##	[7705]	15524081	15526097	15528094	15530111	15532101	15534116	15536119	15538111
##	[7713]	15540122	15542139	15544131	15546145	15548154	15550170	15552180	15554189
##	[7721]	15556202	15558192	15560180	15562196	15564202	15566218	15568234	15570251
##	[7729]	15572258	15574274	15576290	15578306	15580324	15582342	15584357	15586350
##	[7737]	15588365	15590374	15592386	15594403	15596421	15598439	15600456	15602402
##	[7745]	15604404	15606402	15608420	15610436	15612442	15614452	15616468	15618454
##	[7753]	15620434	15622452	15624470	15626450	15628468	15630484	15632502	15634512
##	[7761]	15636528	15638543	15640559	15642563	15644561	15646569	15648569	15650568
##	[7769]	15652574	15654577	15656584	15658593	15660598	15662609	15664620	15666631
##	[7777]	15668642	15670656	15672670	15674682	15676694	15678706	15680707	15682704
##	[7785]	15684706	15686702	15688715	15690728	15692741	15694754	15696696	15698709

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 ## [8153] 16424245 16426258 16428274 16430291 16432301 16434317 16436324 16438315
 ## [8161] 16440305 16442315 16444331 16446348 16448363 16450373 16452376 16454385
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## [8793] 17710712 17712717 17714733 17716748 17718764 17720780 17722794 17724803
## [8801] 17726815 17728830 17730837 17732855 17734864 17736870 17738885
```

#Part 6 #In this part, you are performing various operations on the nt dataframe. mean(nt\$release_year, na.rm = TRUE) calculates the mean of the release_year column, ignoring missing values. rev(nt[1:10,3]) reverses the order of the values in the third column of the first 10 rows. nt[,3] concatenates the values in the show_id column with a comma separator and prints the result. nchar(nt) calculates the number of characters in each element of the dataframe nt. table(nt[1:400,2]) creates a frequency table for the values in the second column of the first 400 rows. nt\$show_id[nt\$release_year == 2021] retrieves the values in the show_id column where the release_year is equal to 2021. sort(nt\$release_year) sorts the release_year column in ascending order. order(nt\$title) returns the indices that would sort the title column in ascending order. rank(nt\$director) calculates the rank of each value in the director column.

```
mean(nt$release_year, na.rm = TRUE)
```

```
## [1] 2014.18
```

```
rev(nt[1:10,3])
```

```
## # A tibble: 10 x 1
##   title
##   <chr>
## 1 Dick Johnson Is Dead
## 2 Blood & Water
## 3 Ganglands
## 4 Jailbirds New Orleans
## 5 Kota Factory
## 6 Midnight Mass
## 7 My Little Pony: A New Generation
## 8 Sankofa
## 9 The Great British Baking Show
## 10 The Starling
```

```
cat(nt$show_id, sep = ",")
```

```
## s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,s11,s12,s13,s14,s15,s16,s17,s18,s19,s20,s21,s22,s23,s24,s25,s26,s27,s
```

```
nchar(nt)
```

```
##      show_id      type      title      director      cast      country
##      78312      84783      192336      130118      983129      135835
##      date_added release_year      rating      duration      listed_in      description
##      165119      52947      74415      97415      330066      1293715
##      hero
##      35310
```

```
table(nt[1:400,2])
```

```
## type
##      Movie TV Show
##      256      144
```

```
nt$show_id[nt$release_year == 2021]
```

```
##      [1] "s2"      "s3"      "s4"      "s5"      "s6"      "s7"      "s9"      "s10"     "s11"
##      [10] "s12"     "s13"     "s14"     "s15"     "s16"     "s19"     "s20"     "s21"     "s24"
##      [19] "s26"     "s31"     "s32"     "s34"     "s36"     "s37"     "s40"     "s41"     "s46"
##      [28] "s50"     "s56"     "s65"     "s66"     "s69"     "s71"     "s72"     "s73"     "s75"
##      [37] "s76"     "s78"     "s80"     "s81"     "s82"     "s83"     "s84"     "s86"     "s87"
##      [46] "s89"     "s92"     "s93"     "s94"     "s96"     "s98"     "s99"     "s100"    "s102"
##      [55] "s103"    "s107"    "s109"    "s110"    "s111"    "s112"    "s113"    "s114"    "s118"
##      [64] "s121"    "s126"    "s131"    "s133"    "s148"    "s182"    "s185"    "s186"    "s187"
##      [73] "s188"    "s191"    "s194"    "s197"    "s198"    "s199"    "s214"    "s215"    "s219"
##      [82] "s220"    "s221"    "s222"    "s223"    "s224"    "s225"    "s226"    "s227"    "s231"
##      [91] "s232"    "s234"    "s235"    "s236"    "s237"    "s238"    "s239"    "s240"    "s241"
##     [100] "s242"    "s243"    "s244"    "s246"    "s247"    "s248"    "s249"    "s250"    "s253"
##     [109] "s255"    "s256"    "s262"    "s263"    "s271"    "s272"    "s273"    "s274"    "s275"
##     [118] "s276"    "s277"    "s278"    "s279"    "s280"    "s281"    "s284"    "s285"    "s287"
##     [127] "s288"    "s291"    "s292"    "s294"    "s296"    "s297"    "s298"    "s300"    "s301"
##     [136] "s305"    "s308"    "s310"    "s311"    "s312"    "s313"    "s318"    "s319"    "s321"
##     [145] "s340"    "s362"    "s364"    "s365"    "s367"    "s370"    "s371"    "s373"    "s374"
##     [154] "s376"    "s377"    "s378"    "s380"    "s381"    "s382"    "s383"    "s385"    "s386"
##     [163] "s387"    "s388"    "s389"    "s394"    "s395"    "s396"    "s397"    "s398"    "s399"
##     [172] "s400"    "s401"    "s402"    "s403"    "s404"    "s405"    "s427"    "s429"    "s431"
##     [181] "s432"    "s433"    "s437"    "s438"    "s440"    "s441"    "s442"    "s443"    "s445"
##     [190] "s453"    "s454"    "s456"    "s458"    "s459"    "s460"    "s464"    "s465"    "s466"
##     [199] "s467"    "s468"    "s469"    "s471"    "s472"    "s473"    "s478"    "s479"    "s480"
##     [208] "s482"    "s483"    "s484"    "s485"    "s486"    "s488"    "s489"    "s491"    "s494"
##     [217] "s498"    "s500"    "s501"    "s504"    "s505"    "s507"    "s517"    "s521"    "s522"
##     [226] "s534"    "s539"    "s545"    "s547"    "s548"    "s551"    "s552"    "s557"    "s561"
##     [235] "s571"    "s572"    "s578"    "s581"    "s618"    "s619"    "s624"    "s625"    "s626"
##     [244] "s627"    "s629"    "s632"    "s637"    "s638"    "s639"    "s640"    "s641"    "s642"
##     [253] "s643"    "s644"    "s645"    "s646"    "s647"    "s648"    "s649"    "s654"    "s659"
##     [262] "s661"    "s683"    "s684"    "s685"    "s686"    "s687"    "s688"    "s691"    "s692"
##     [271] "s693"    "s694"    "s697"    "s698"    "s700"    "s701"    "s704"    "s707"    "s708"
##     [280] "s711"    "s712"    "s715"    "s716"    "s718"    "s720"    "s721"    "s725"    "s726"
##     [289] "s729"    "s730"    "s731"    "s732"    "s733"    "s735"    "s736"    "s737"    "s738"
```

```
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## [316] "s769" "s771" "s772" "s773" "s782" "s784" "s786" "s806" "s812"
## [325] "s821" "s827" "s828" "s830" "s831" "s832" "s833" "s834" "s835"
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## [8597] 683 1071 616 8739 3204 8740 8741 8742 1112 3299 1001 5488 4981 8743
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## [8641] 1769.0 1391.0 2966.0 2096.0 8777.0 889.0 8778.0 8779.0 1844.0 2993.0
## [8651] 5531.0 2276.5 527.0 8780.0 712.0 4239.0 3715.0 1035.0 2682.0 1625.5
## [8661] 2581.5 4231.5 5048.0 5233.0 2325.5 4397.0 3847.0 3472.0 2269.5 8781.0
## [8671] 4293.5 4583.0 574.0 340.0 1968.0 807.0 1348.0 2047.0 1836.0 8782.0
## [8681] 4164.0 1818.0 6075.5 3061.0 8783.0 1536.0 744.0 4197.0 519.0 4738.0
## [8691] 8784.0 4816.5 3411.0 277.0 4363.0 1684.0 5449.0 2611.0 1979.5 2230.0
## [8701] 8785.0 3467.0 5663.0 3625.0 1066.5 1385.0 2456.0 1936.0 238.5 510.0
## [8711] 8786.0 1008.0 8787.0 569.0 5385.0 94.0 5789.0 28.0 3693.0 2125.0
## [8721] 8788.0 8789.0 4807.0 4628.0 2727.0 4910.0 8790.0 4725.0 2062.0 3448.0
## [8731] 5121.0 4048.5 4249.0 718.0 1521.0 3540.5 8791.0 3830.0 1461.0 1768.0
## [8741] 8792.0 8793.0 673.0 4234.0 3872.0 3648.0 4216.0 8794.0 2576.5 8795.0
## [8751] 1413.0 6115.0 5629.0 151.0 675.0 8796.0 654.0 4103.0 8797.0 5460.0
## [8761] 1343.0 6058.0 3819.5 2599.0 3128.0 2740.0 4732.0 3148.5 304.0 3908.0
## [8771] 5469.5 3038.5 5041.5 2891.5 115.0 8798.0 1075.0 5070.5 5070.5 3007.0
## [8781] 8799.0 3500.0 2966.0 8800.0 8801.0 8802.0 2255.0 2932.5 2209.0 938.0
## [8791] 1431.5 2325.5 3888.0 4498.5 3844.5 8803.0 8804.0 8805.0 966.0 617.5
## [8801] 8806.0 3350.0 1332.5 8807.0 4904.5 4307.0 3886.0

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