

# FinalProjectHaub

Haub

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## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

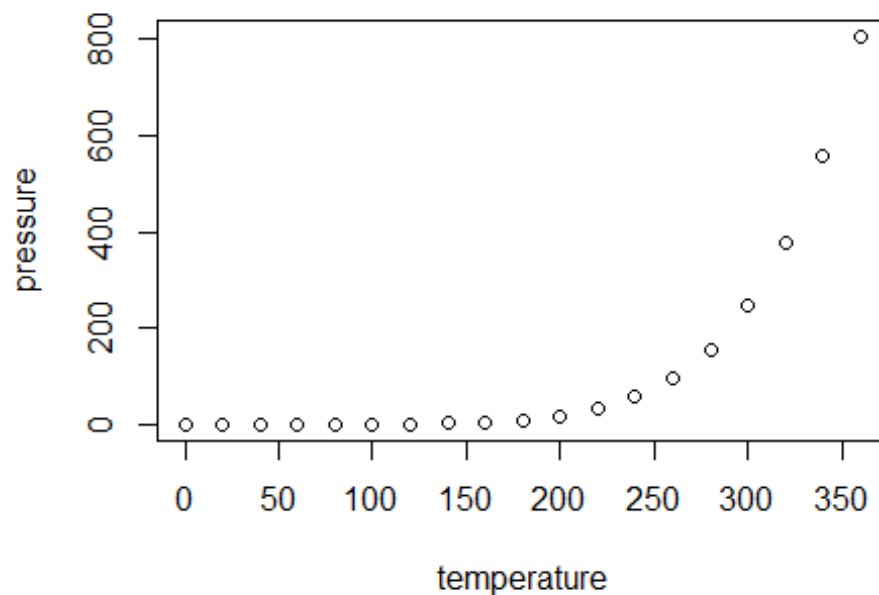
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)

##      speed          dist
##  Min.   : 4.0    Min.   :  2.00
## 1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##   Mean  :15.4    Mean   : 42.98
## 3rd Qu.:19.0    3rd Qu.: 56.00
##   Max.  :25.0    Max.    :120.00
```

## Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## Imported Libraries

```
library(tswge)

## Warning: package 'tswge' was built under R version 4.1.3

## Registered S3 method overwritten by 'quantmod':
##   method          from
##   as.zoo.data.frame zoo

##
## Attaching package: 'tswge'

## The following object is masked from 'package:datasets':
##
##   uspop

library(magrittr)
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(tidyverse)

## -- Attaching packages ----- tidyverse
1.3.1 --

## v ggplot2 3.3.5      v purrr 0.3.4
## v tibble 3.1.6       v stringr 1.4.0
## v tidyr 1.1.4        v forcats 0.5.1
## v readr 2.0.2

## -- Conflicts -----
tidyverse_conflicts() --
## x tidyr::extract() masks magrittr::extract()
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## x purrr::set_names() masks magrittr::set_names()

library(stats)
library(matlab)

## Warning: package 'matlab' was built under R version 4.1.3

##
## Attaching package: 'matlab'

## The following object is masked from 'package:magrittr':
##
##   mod

## The following object is masked from 'package:stats':
##
##   reshape

## The following objects are masked from 'package:utils':
##
##   find, fix

## The following object is masked from 'package:base':
##
##   sum

library(tseries)

## Warning: package 'tseries' was built under R version 4.1.3

```

```
library(vars)

## Warning: package 'vars' was built under R version 4.1.3

## Loading required package: MASS

##
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':
##
##     select

## The following object is masked from 'package:tswge':
##
##     cement

## Loading required package: strucchange

## Warning: package 'strucchange' was built under R version 4.1.2

## Loading required package: zoo

##
## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
##
##     as.Date, as.Date.numeric

## Loading required package: sandwich

## Warning: package 'sandwich' was built under R version 4.1.2

##
## Attaching package: 'strucchange'

## The following object is masked from 'package:stringr':
##
##     boundary

## Loading required package: urca

## Warning: package 'urca' was built under R version 4.1.3

## Loading required package: lmtest

## Warning: package 'lmtest' was built under R version 4.1.3

##
## Attaching package: 'lmtest'
```

```

## The following object is masked from 'package:tsvge':
##
##      wages

library(RColorBrewer)
library(nnfor)

## Warning: package 'nnfor' was built under R version 4.1.3

## Loading required package: generics

## Warning: package 'generics' was built under R version 4.1.3

##
## Attaching package: 'generics'

## The following object is masked from 'package:sandwich':
##
##      estfun

## The following object is masked from 'package:dplyr':
##
##      explain

## The following objects are masked from 'package:base':
##
##      as.difftime, as.factor, as.ordered, intersect, is.element, setdiff,
##      setequal, union

library(keras)

## Warning: package 'keras' was built under R version 4.1.3

##
## Attaching package: 'keras'

## The following object is masked from 'package:generics':
##
##      evaluate

library(tfruns)

## Warning: package 'tfruns' was built under R version 4.1.3

library(tinytex)
# install.packages("contrib.url")
# library(contrib.url)

```

## Import merged data frame

```

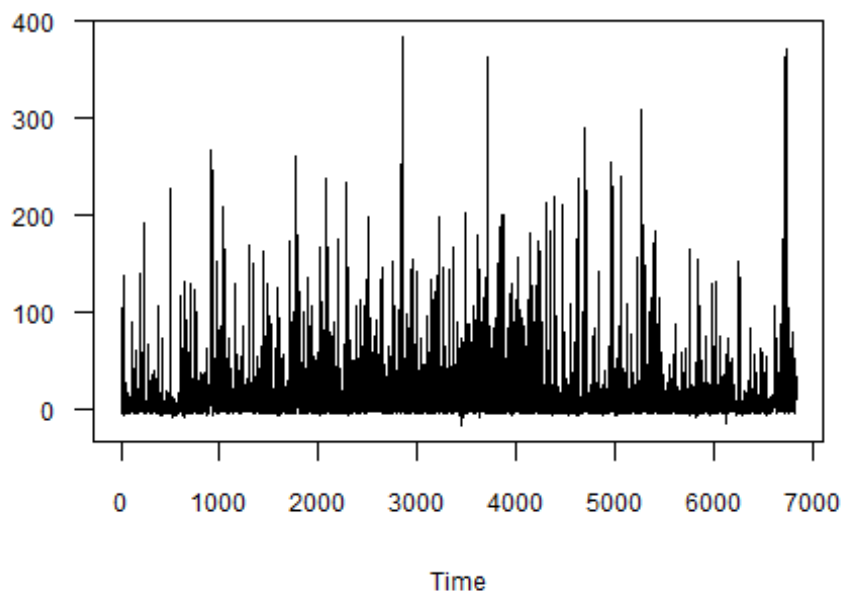
flightdf=read.csv("D:/SMUMSDS/TimeSeries/Final
Project/ModAirDelay2018V3.csv", header = TRUE)
head(flightdf)

```

##	year	month	day	DEP_TIME	avg_dep_delay	avg_temp	avg_humidity
## 1	2018	1	1	5	-3.50	24.22	41
## 2	2018	1	1	6	10.50	22.84	39
## 3	2018	1	1	7	8.92	21.40	42
## 4	2018	1	1	8	52.07	20.97	42
## 5	2018	1	1	9	12.09	19.53	46
## 6	2018	1	1	10	23.71	19.51	48

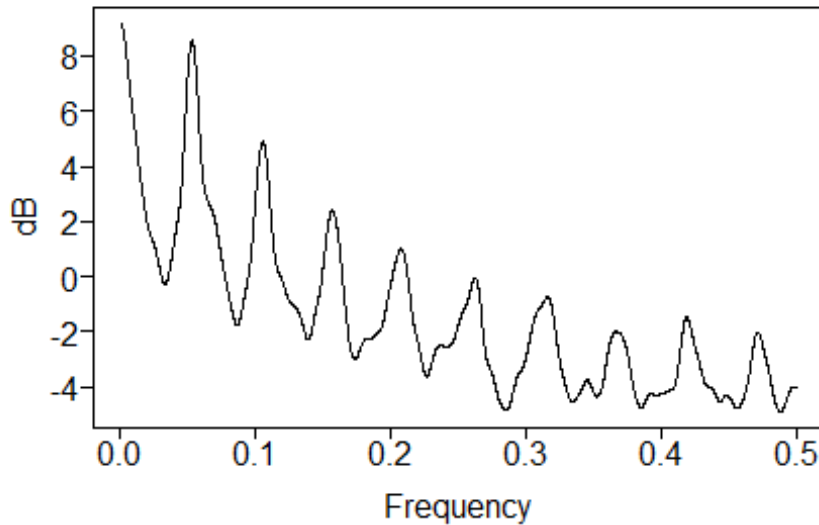
## EDA

```
plots.wge(flightdf$avg_dep_delay)
```



```
parzen.wge(flightdf$avg_dep_delay)
```

## Parzen Window Truncation point: M = 165



```
## $freq
## [1] 0.0001461988 0.0002923977 0.0004385965 0.0005847953 0.0007309942
## [6] 0.0008771930 0.0010233918 0.0011695906 0.0013157895 0.0014619883
## [11] 0.0016081871 0.0017543860 0.0019005848 0.0020467836 0.0021929825
## [16] 0.0023391813 0.0024853801 0.0026315789 0.0027777778 0.0029239766
## [21] 0.0030701754 0.0032163743 0.0033625731 0.0035087719 0.0036549708
## [26] 0.0038011696 0.0039473684 0.0040935673 0.0042397661 0.0043859649
## [31] 0.0045321637 0.0046783626 0.0048245614 0.0049707602 0.0051169591
## [36] 0.0052631579 0.0054093567 0.0055555556 0.0057017544 0.0058479532
## [41] 0.0059941520 0.0061403509 0.0062865497 0.0064327485 0.0065789474
## [46] 0.0067251462 0.0068713450 0.0070175439 0.0071637427 0.0073099415
## [51] 0.0074561404 0.0076023392 0.0077485380 0.0078947368 0.0080409357
## [56] 0.0081871345 0.0083333333 0.0084795322 0.0086257310 0.0087719298
## [61] 0.0089181287 0.0090643275 0.0092105263 0.0093567251 0.0095029240
## [66] 0.0096491228 0.0097953216 0.0099415205 0.0100877193 0.0102339181
## [71] 0.0103801170 0.0105263158 0.0106725146 0.0108187135 0.0109649123
## [76] 0.0111111111 0.0112573099 0.0114035088 0.0115497076 0.0116959064
## [81] 0.0118421053 0.0119883041 0.0121345029 0.0122807018 0.0124269006
## [86] 0.0125730994 0.0127192982 0.0128654971 0.0130116959 0.0131578947
## [91] 0.0133040936 0.0134502924 0.0135964912 0.0137426901 0.0138888889
## [96] 0.0140350877 0.0141812865 0.0143274854 0.0144736842 0.0146198830
## [101] 0.0147660819 0.0149122807 0.0150584795 0.0152046784 0.0153508772
## [106] 0.0154970760 0.0156432749 0.0157894737 0.0159356725 0.0160818713
## [111] 0.0162280702 0.0163742690 0.0165204678 0.0166666667 0.0168128655
## [116] 0.0169590643 0.0171052632 0.0172514620 0.0173976608 0.0175438596
## [121] 0.0176900585 0.0178362573 0.0179824561 0.0181286550 0.0182748538
## [126] 0.0184210526 0.0185672515 0.0187134503 0.0188596491 0.0190058480
```

## [131] 0.0191520468 0.0192982456 0.0194444444 0.0195906433 0.0197368421  
## [136] 0.0198830409 0.0200292398 0.0201754386 0.0203216374 0.0204678363  
## [141] 0.0206140351 0.0207602339 0.0209064327 0.0210526316 0.0211988304  
## [146] 0.0213450292 0.0214912281 0.0216374269 0.0217836257 0.0219298246  
## [151] 0.0220760234 0.0222222222 0.0223684211 0.0225146199 0.0226608187  
## [156] 0.0228070175 0.0229532164 0.0230994152 0.0232456140 0.0233918129  
## [161] 0.0235380117 0.0236842105 0.0238304094 0.0239766082 0.0241228070  
## [166] 0.0242690058 0.0244152047 0.0245614035 0.0247076023 0.0248538012  
## [171] 0.0250000000 0.0251461988 0.0252923977 0.0254385965 0.0255847953  
## [176] 0.0257309942 0.0258771930 0.0260233918 0.0261695906 0.0263157895  
## [181] 0.0264619883 0.0266081871 0.0267543860 0.0269005848 0.0270467836  
## [186] 0.0271929825 0.0273391813 0.0274853801 0.0276315789 0.0277777778  
## [191] 0.0279239766 0.0280701754 0.0282163743 0.0283625731 0.0285087719  
## [196] 0.0286549708 0.0288011696 0.0289473684 0.0290935673 0.0292397661  
## [201] 0.0293859649 0.0295321637 0.0296783626 0.0298245614 0.0299707602  
## [206] 0.0301169591 0.0302631579 0.0304093567 0.0305555556 0.0307017544  
## [211] 0.0308479532 0.0309941520 0.0311403509 0.0312865497 0.0314327485  
## [216] 0.0315789474 0.0317251462 0.0318713450 0.0320175439 0.0321637427  
## [221] 0.0323099415 0.0324561404 0.0326023392 0.0327485380 0.0328947368  
## [226] 0.0330409357 0.0331871345 0.0333333333 0.0334795322 0.0336257310  
## [231] 0.0337719298 0.0339181287 0.0340643275 0.0342105263 0.0343567251  
## [236] 0.0345029240 0.0346491228 0.0347953216 0.0349415205 0.0350877193  
## [241] 0.0352339181 0.0353801170 0.0355263158 0.0356725146 0.0358187135  
## [246] 0.0359649123 0.0361111111 0.0362573099 0.0364035088 0.0365497076  
## [251] 0.0366959064 0.0368421053 0.0369883041 0.0371345029 0.0372807018  
## [256] 0.0374269006 0.0375730994 0.0377192982 0.0378654971 0.0380116959  
## [261] 0.0381578947 0.0383040936 0.0384502924 0.0385964912 0.0387426901  
## [266] 0.0388888889 0.0390350877 0.0391812865 0.0393274854 0.0394736842  
## [271] 0.0396198830 0.0397660819 0.0399122807 0.0400584795 0.0402046784  
## [276] 0.0403508772 0.0404970760 0.0406432749 0.0407894737 0.0409356725  
## [281] 0.0410818713 0.0412280702 0.0413742690 0.0415204678 0.0416666667  
## [286] 0.0418128655 0.0419590643 0.0421052632 0.0422514620 0.0423976608  
## [291] 0.0425438596 0.0426900585 0.0428362573 0.0429824561 0.0431286550  
## [296] 0.0432748538 0.0434210526 0.0435672515 0.0437134503 0.0438596491  
## [301] 0.0440058480 0.0441520468 0.0442982456 0.0444444444 0.0445906433  
## [306] 0.0447368421 0.0448830409 0.0450292398 0.0451754386 0.0453216374  
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## [316] 0.0461988304 0.0463450292 0.0464912281 0.0466374269 0.0467836257  
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## [331] 0.0483918129 0.0485380117 0.0486842105 0.0488304094 0.0489766082  
## [336] 0.0491228070 0.0492690058 0.0494152047 0.0495614035 0.0497076023  
## [341] 0.0498538012 0.0500000000 0.0501461988 0.0502923977 0.0504385965  
## [346] 0.0505847953 0.0507309942 0.0508771930 0.0510233918 0.0511695906  
## [351] 0.0513157895 0.0514619883 0.0516081871 0.0517543860 0.0519005848  
## [356] 0.0520467836 0.0521929825 0.0523391813 0.0524853801 0.0526315789  
## [361] 0.0527777778 0.0529239766 0.0530701754 0.0532163743 0.0533625731  
## [366] 0.0535087719 0.0536549708 0.0538011696 0.0539473684 0.0540935673  
## [371] 0.0542397661 0.0543859649 0.0545321637 0.0546783626 0.0548245614  
## [376] 0.0549707602 0.0551169591 0.0552631579 0.0554093567 0.0555555556



## [381] 0.0557017544 0.0558479532 0.0559941520 0.0561403509 0.0562865497  
## [386] 0.0564327485 0.0565789474 0.0567251462 0.0568713450 0.0570175439  
## [391] 0.0571637427 0.0573099415 0.0574561404 0.0576023392 0.0577485380  
## [396] 0.0578947368 0.0580409357 0.0581871345 0.0583333333 0.0584795322  
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## [441] 0.0644736842 0.0646198830 0.0647660819 0.0649122807 0.0650584795  
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## [481] 0.0703216374 0.0704678363 0.0706140351 0.0707602339 0.0709064327  
## [486] 0.0710526316 0.0711988304 0.0713450292 0.0714912281 0.0716374269  
## [491] 0.0717836257 0.0719298246 0.0720760234 0.0722222222 0.0723684211  
## [496] 0.0725146199 0.0726608187 0.0728070175 0.0729532164 0.0730994152  
## [501] 0.0732456140 0.0733918129 0.0735380117 0.0736842105 0.0738304094  
## [506] 0.0739766082 0.0741228070 0.0742690058 0.0744152047 0.0745614035  
## [511] 0.0747076023 0.0748538012 0.0750000000 0.0751461988 0.0752923977  
## [516] 0.0754385965 0.0755847953 0.0757309942 0.0758771930 0.0760233918  
## [521] 0.0761695906 0.0763157895 0.0764619883 0.0766081871 0.0767543860  
## [526] 0.0769005848 0.0770467836 0.0771929825 0.0773391813 0.0774853801  
## [531] 0.0776315789 0.0777777778 0.0779239766 0.0780701754 0.0782163743  
## [536] 0.0783625731 0.0785087719 0.0786549708 0.0788011696 0.0789473684  
## [541] 0.0790935673 0.0792397661 0.0793859649 0.0795321637 0.0796783626  
## [546] 0.0798245614 0.0799707602 0.0801169591 0.0802631579 0.0804093567  
## [551] 0.0805555556 0.0807017544 0.0808479532 0.0809941520 0.0811403509  
## [556] 0.0812865497 0.0814327485 0.0815789474 0.0817251462 0.0818713450  
## [561] 0.0820175439 0.0821637427 0.0823099415 0.0824561404 0.0826023392  
## [566] 0.0827485380 0.0828947368 0.0830409357 0.0831871345 0.0833333333  
## [571] 0.0834795322 0.0836257310 0.0837719298 0.0839181287 0.0840643275  
## [576] 0.0842105263 0.0843567251 0.0845029240 0.0846491228 0.0847953216  
## [581] 0.0849415205 0.0850877193 0.0852339181 0.0853801170 0.0855263158  
## [586] 0.0856725146 0.0858187135 0.0859649123 0.0861111111 0.0862573099  
## [591] 0.0864035088 0.0865497076 0.0866959064 0.0868421053 0.0869883041  
## [596] 0.0871345029 0.0872807018 0.0874269006 0.0875730994 0.0877192982  
## [601] 0.0878654971 0.0880116959 0.0881578947 0.0883040936 0.0884502924  
## [606] 0.0885964912 0.0887426901 0.0888888889 0.0890350877 0.0891812865  
## [611] 0.0893274854 0.0894736842 0.0896198830 0.0897660819 0.0899122807  
## [616] 0.0900584795 0.0902046784 0.0903508772 0.0904970760 0.0906432749  
## [621] 0.0907894737 0.0909356725 0.0910818713 0.0912280702 0.0913742690  
## [626] 0.0915204678 0.0916666667 0.0918128655 0.0919590643 0.0921052632

## [631] 0.0922514620 0.0923976608 0.0925438596 0.0926900585 0.0928362573  
## [636] 0.0929824561 0.0931286550 0.0932748538 0.0934210526 0.0935672515  
## [641] 0.0937134503 0.0938596491 0.0940058480 0.0941520468 0.0942982456  
## [646] 0.0944444444 0.0945906433 0.0947368421 0.0948830409 0.0950292398  
## [651] 0.0951754386 0.0953216374 0.0954678363 0.0956140351 0.0957602339  
## [656] 0.0959064327 0.0960526316 0.0961988304 0.0963450292 0.0964912281  
## [661] 0.0966374269 0.0967836257 0.0969298246 0.0970760234 0.0972222222  
## [666] 0.0973684211 0.0975146199 0.0976608187 0.0978070175 0.0979532164  
## [671] 0.0980994152 0.0982456140 0.0983918129 0.0985380117 0.0986842105  
## [676] 0.0988304094 0.0989766082 0.0991228070 0.0992690058 0.0994152047  
## [681] 0.0995614035 0.0997076023 0.0998538012 0.1000000000 0.1001461988  
## [686] 0.1002923977 0.1004385965 0.1005847953 0.1007309942 0.1008771930  
## [691] 0.1010233918 0.1011695906 0.1013157895 0.1014619883 0.1016081871  
## [696] 0.1017543860 0.1019005848 0.1020467836 0.1021929825 0.1023391813  
## [701] 0.1024853801 0.1026315789 0.1027777778 0.1029239766 0.1030701754  
## [706] 0.1032163743 0.1033625731 0.1035087719 0.1036549708 0.1038011696  
## [711] 0.1039473684 0.1040935673 0.1042397661 0.1043859649 0.1045321637  
## [716] 0.1046783626 0.1048245614 0.1049707602 0.1051169591 0.1052631579  
## [721] 0.1054093567 0.1055555556 0.1057017544 0.1058479532 0.1059941520  
## [726] 0.1061403509 0.1062865497 0.1064327485 0.1065789474 0.1067251462  
## [731] 0.1068713450 0.1070175439 0.1071637427 0.1073099415 0.1074561404  
## [736] 0.1076023392 0.1077485380 0.1078947368 0.1080409357 0.1081871345  
## [741] 0.1083333333 0.1084795322 0.1086257310 0.1087719298 0.1089181287  
## [746] 0.1090643275 0.1092105263 0.1093567251 0.1095029240 0.1096491228  
## [751] 0.1097953216 0.1099415205 0.1100877193 0.1102339181 0.1103801170  
## [756] 0.1105263158 0.1106725146 0.1108187135 0.1109649123 0.1111111111  
## [761] 0.1112573099 0.1114035088 0.1115497076 0.1116959064 0.1118421053  
## [766] 0.1119883041 0.1121345029 0.1122807018 0.1124269006 0.1125730994  
## [771] 0.1127192982 0.1128654971 0.1130116959 0.1131578947 0.1133040936  
## [776] 0.1134502924 0.1135964912 0.1137426901 0.1138888889 0.1140350877  
## [781] 0.1141812865 0.1143274854 0.1144736842 0.1146198830 0.1147660819  
## [786] 0.1149122807 0.1150584795 0.1152046784 0.1153508772 0.1154970760  
## [791] 0.1156432749 0.1157894737 0.1159356725 0.1160818713 0.1162280702  
## [796] 0.1163742690 0.1165204678 0.1166666667 0.1168128655 0.1169590643  
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##	[511]	0.623839417	0.582442362	0.541459893	0.500895456	0.460748862
##	[516]	0.421016504	0.381691598	0.342764446	0.304222704	0.266051675
##	[521]	0.228234597	0.190752934	0.153586670	0.116714592	0.080114569
##	[526]	0.043763816	0.007639146	-0.028282789	-0.064025275	-0.099611331
##	[531]	-0.135063518	-0.170403757	-0.205653175	-0.240831949	-0.275959175
##	[536]	-0.311052741	-0.346129205	-0.381203687	-0.416289765	-0.451399366
##	[541]	-0.486542666	-0.521727988	-0.556961699	-0.592248096	-0.627589303
##	[546]	-0.662985150	-0.698433054	-0.733927895	-0.769461889	-0.805024455
##	[551]	-0.840602084	-0.876178207	-0.911733063	-0.947243578	-0.982683243
##	[556]	-1.018022012	-1.053226203	-1.088258431	-1.123077544	-1.157638602
##	[561]	-1.191892871	-1.225787857	-1.259267370	-1.292271637	-1.324737445
##	[566]	-1.356598339	-1.387784861	-1.418224840	-1.447843731	-1.476565003
##	[571]	-1.504310577	-1.531001304	-1.556557494	-1.580899479	-1.603948214
##	[576]	-1.625625897	-1.645856625	-1.664567043	-1.681687014	-1.697150270
##	[581]	-1.710895054	-1.722864734	-1.733008375	-1.741281275	-1.747645432
##	[586]	-1.752069958	-1.754531415	-1.755014070	-1.753510074	-1.750019550
##	[591]	-1.744550596	-1.737119194	-1.727749048	-1.716471322	-1.703324320
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##	[606]	-1.451981975	-1.421303027	-1.389663007	-1.357142252	-1.323819727
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##	[616]	-1.111186460	-1.074258150	-1.037061648	-0.999646623	-0.962058159
##	[621]	-0.924336573	-0.886517249	-0.848630481	-0.810701335	-0.772749511
##	[626]	-0.734789219	-0.696829054	-0.658871889	-0.620914765	-0.582948793
##	[631]	-0.544959072	-0.506924606	-0.468818255	-0.430606684	-0.392250358
##	[636]	-0.353703549	-0.314914383	-0.275824928	-0.236371328	-0.196483986
##	[641]	-0.156087805	-0.115102501	-0.073442975	-0.031019766	0.012260414
##	[646]	0.056494071	0.101780229	0.148219648	0.195913963	0.244964738
##	[651]	0.295472456	0.347535436	0.401248709	0.456702843	0.513982753
##	[656]	0.573166502	0.634324113	0.697516420	0.762793973	0.830196020
##	[661]	0.899749583	0.971468662	1.045353562	1.121390383	1.199550662
##	[666]	1.279791193	1.362054023	1.446266618	1.532342208	1.620180293
##	[671]	1.709667304	1.800677396	1.893073378	1.986707722	2.081423676
##	[676]	2.177056419	2.273434266	2.370379882	2.467711502	2.565244125
##	[681]	2.662790672	2.760163101	2.857173449	2.953634813	3.049362251
##	[686]	3.144173595	3.237890190	3.330337537	3.421345857	3.510750573
##	[691]	3.598392714	3.684119237	3.767783293	3.849244418	3.928368669
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##	[701]	4.347373391	4.406944493	4.463343933	4.516495918	4.566330590
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##	[711]	4.792472934	4.817597430	4.839041546	4.856782286	4.870801237
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##	[721]	4.876283243	4.864103054	4.848210481	4.828625804	4.805373567
##	[726]	4.778482619	4.747986169	4.713921858	4.676331842	4.635262882
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##	[736]	4.319019553	4.255319257	4.188694780	4.119240211	4.047055645
##	[741]	3.972247334	3.894927822	3.815216070	3.733237560	3.649124376
##	[746]	3.563015256	3.475055610	3.385397501	3.294199567	3.201626904
##	[751]	3.107850872	3.013048845	2.917403879	2.821104300	2.724343198
##	[756]	2.627317841	2.530228975	2.433280039	2.336676266	2.240623695
##	[761]	2.145328081	2.050993714	1.957822164	1.866010949	1.775752156
##	[766]	1.687231017	1.600624484	1.516099796	1.433813089	1.353908063
##	[771]	1.276514727	1.201748267	1.129708043	1.060476745	0.994119732
##	[776]	0.930684566	0.870200756	0.812679707	0.758114902	0.706482280
##	[781]	0.657740834	0.611833389	0.568687559	0.528216861	0.490321949
##	[786]	0.454891962	0.421805940	0.390934302	0.362140337	0.335281706
##	[791]	0.310211914	0.286781750	0.264840654	0.244238027	0.224824443
##	[796]	0.206452777	0.188979223	0.172264227	0.156173298	0.140577726
##	[801]	0.125355205	0.110390343	0.095575101	0.080809129	0.066000029
##	[806]	0.051063545	0.035923679	0.020512750	0.004771392	-0.011351496
##	[811]	-0.027898847	-0.044905570	-0.062398722	-0.080397725	-0.098914607
##	[816]	-0.117954274	-0.137514805	-0.157587777	-0.178158608	-0.199206914
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##	[826]	-0.333751848	-0.357169272	-0.380741626	-0.404415353	-0.428135532
##	[831]	-0.451846354	-0.475491611	-0.499015165	-0.522361425	-0.545475798
##	[836]	-0.568305132	-0.590798140	-0.612905801	-0.634581734	-0.655782547
##	[841]	-0.676468148	-0.696602029	-0.716151507	-0.735087924	-0.753386818
##	[846]	-0.771028035	-0.787995815	-0.804278827	-0.819870161	-0.834767292
##	[851]	-0.848971986	-0.862490192	-0.875331882	-0.887510871	-0.899044607
##	[856]	-0.909953939	-0.920262862	-0.929998254	-0.939189592	-0.947868668
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##	[951]	-2.263840963	-2.256668637	-2.247374172	-2.235980114	-2.222520584
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##	[1001]	-0.771282389	-0.736121608	-0.700158679	-0.663305159	-0.625476261
##	[1006]	-0.586591880	-0.546577581	-0.505365551	-0.462895481	-0.419115380
##	[1011]	-0.373982299	-0.327462964	-0.279534289	-0.230183789	-0.179409856
##	[1016]	-0.127221919	-0.073640471	-0.018696980	0.037566338	0.095096843
##	[1021]	0.153831918	0.213699501	0.274618715	0.336500560	0.399248673
##	[1026]	0.462760126	0.526926261	0.591633543	0.656764413	0.722198141
##	[1031]	0.787811653	0.853480340	0.919078819	0.984481666	1.049564086
##	[1036]	1.114202542	1.178275322	1.241663055	1.304249167	1.365920279
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##	[1111]	0.776740055	0.707068801	0.636656912	0.565554781	0.493812784
##	[1116]	0.421481315	0.348610817	0.275251841	0.201455091	0.127271492
##	[1121]	0.052752255	-0.022051051	-0.097086424	-0.172301352	-0.247642736
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## [1201]	-2.829862153	-2.812458220	-2.794537288	-2.776164117	-2.757404408
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## [1216]	-2.544502764	-2.526214367	-2.508356234	-2.490977887	-2.474125516
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## [1316]	-1.905086811	-1.890616575	-1.875121649	-1.858563398	-1.840908390
## [1321]	-1.822128778	-1.802202624	-1.781114166	-1.758854012	-1.735419263
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## [1356]	-0.635824068	-0.597847063	-0.560197086	-0.522890434	-0.485939628
## [1361]	-0.449353558	-0.413137665	-0.377294153	-0.341822218	-0.306718311
## [1366]	-0.271976413	-0.237588331	-0.203544005	-0.169831836	-0.136439014
## [1371]	-0.103351855	-0.070556144	-0.038037474	-0.005781588	0.026225295
## [1376]	0.057996147	0.089542824	0.120875767	0.152003719	0.182933460
## [1381]	0.213669570	0.244214205	0.274566909	0.304724443	0.334680648
## [1386]	0.364426331	0.393949187	0.423233737	0.452261314	0.481010056
## [1391]	0.509454943	0.537567850	0.565317629	0.592670216	0.619588755
## [1396]	0.646033744	0.671963197	0.697332825	0.722096225	0.746205086
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## [1406]	0.874221093	0.892280586	0.909256541	0.925093378	0.939735806
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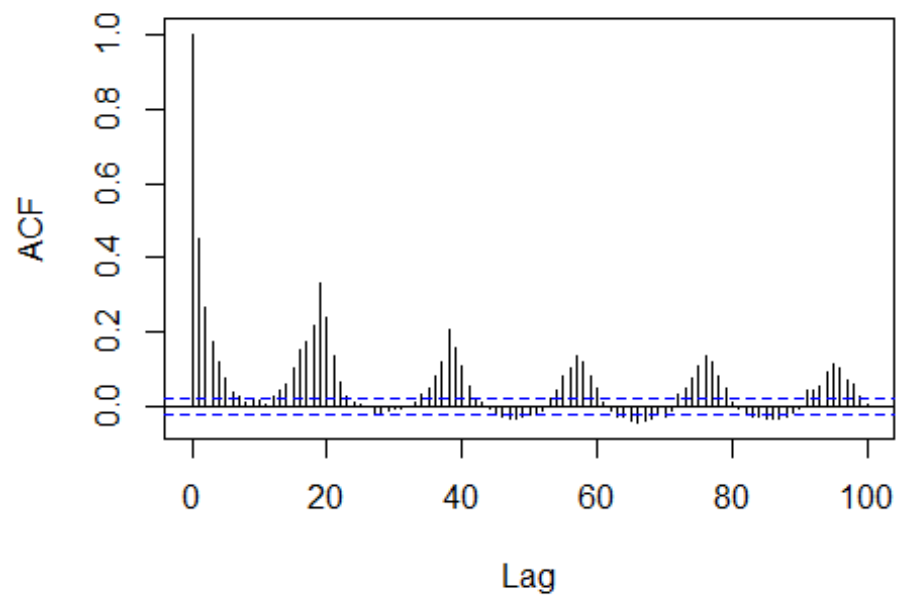


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##	[3181]	-3.544811220	-3.499311507	-3.452812068	-3.405386605	-3.357117871
##	[3186]	-3.308097161	-3.258423700	-3.208203957	-3.157550877	-3.106583072
##	[3191]	-3.055423952	-3.004200839	-2.953044055	-2.902086018	-2.851460329
##	[3196]	-2.801300893	-2.751741058	-2.702912793	-2.654945905	-2.607967305

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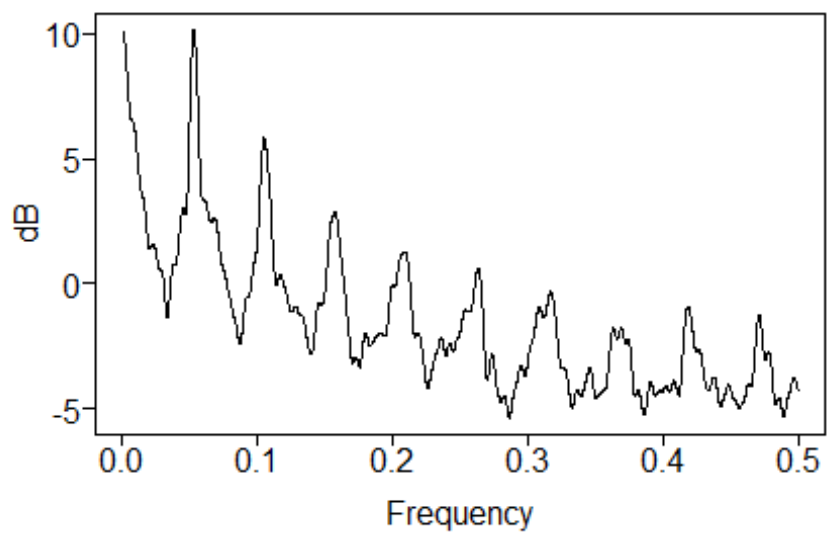
```
acf(flightdf$avg_dep_delay, lag.max = 100)
```

### Series flightdf\$avg\_dep\_delay



```
parzen.wge(flightdf$avg_dep_delay, trunc = 300)
```

### Parzen Window Truncation point: $M = 300$



```
## $freq
## [1] 0.0001461988 0.0002923977 0.0004385965 0.0005847953 0.0007309942
## [6] 0.0008771930 0.0010233918 0.0011695906 0.0013157895 0.0014619883
## [11] 0.0016081871 0.0017543860 0.0019005848 0.0020467836 0.0021929825
## [16] 0.0023391813 0.0024853801 0.0026315789 0.0027777778 0.0029239766
## [21] 0.0030701754 0.0032163743 0.0033625731 0.0035087719 0.0036549708
## [26] 0.0038011696 0.0039473684 0.0040935673 0.0042397661 0.0043859649
## [31] 0.0045321637 0.0046783626 0.0048245614 0.0049707602 0.0051169591
## [36] 0.0052631579 0.0054093567 0.0055555556 0.0057017544 0.0058479532
## [41] 0.0059941520 0.0061403509 0.0062865497 0.0064327485 0.0065789474
## [46] 0.0067251462 0.0068713450 0.0070175439 0.0071637427 0.0073099415
## [51] 0.0074561404 0.0076023392 0.0077485380 0.0078947368 0.0080409357
## [56] 0.0081871345 0.0083333333 0.0084795322 0.0086257310 0.0087719298
## [61] 0.0089181287 0.0090643275 0.0092105263 0.0093567251 0.0095029240
## [66] 0.0096491228 0.0097953216 0.0099415205 0.0100877193 0.0102339181
## [71] 0.0103801170 0.0105263158 0.0106725146 0.0108187135 0.0109649123
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## [81] 0.0118421053 0.0119883041 0.0121345029 0.0122807018 0.0124269006
## [86] 0.0125730994 0.0127192982 0.0128654971 0.0130116959 0.0131578947
## [91] 0.0133040936 0.0134502924 0.0135964912 0.0137426901 0.0138888889
## [96] 0.0140350877 0.0141812865 0.0143274854 0.0144736842 0.0146198830
## [101] 0.0147660819 0.0149122807 0.0150584795 0.0152046784 0.0153508772
## [106] 0.0154970760 0.0156432749 0.0157894737 0.0159356725 0.0160818713
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## [126] 0.0184210526 0.0185672515 0.0187134503 0.0188596491 0.0190058480
## [131] 0.0191520468 0.0192982456 0.0194444444 0.0195906433 0.0197368421
## [136] 0.0198830409 0.0200292398 0.0201754386 0.0203216374 0.0204678363
## [141] 0.0206140351 0.0207602339 0.0209064327 0.0210526316 0.0211988304
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## $pzgram
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##	[136]	1.391758385	1.395094110	1.403356071	1.415678114	1.431170715
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##	[151]	1.597001232	1.598768132	1.597313373	1.592615912	1.584690537
##	[156]	1.573579722	1.559346349	1.542067564	1.521829991	1.498726432
##	[161]	1.472854144	1.444314708	1.413215417	1.379672045	1.343812790
##	[166]	1.305783091	1.265750992	1.223912634	1.180497452	1.135772593
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##	[176]	0.860018072	0.816920030	0.775930805	0.737522567	0.702127843
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##	[186]	0.567542949	0.558232226	0.551966026	0.548200271	0.546285057
##	[191]	0.545481830	0.544983378	0.543935555	0.541459703	0.536674839
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##	[216]	-0.840122956	-0.937963132	-1.029549617	-1.113098661	-1.186895671
##	[221]	-1.249358221	-1.299099990	-1.334990912	-1.356208453	-1.362275233
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##	[241]	-0.084016905	0.013560771	0.106456144	0.194084466	0.275976960
##	[246]	0.351774084	0.421218969	0.484151317	0.540501931	0.590287932
##	[251]	0.633608683	0.670642341	0.701642940	0.726937860	0.746925488
##	[256]	0.762072867	0.772913083	0.780042123	0.784114925	0.785840315
##	[261]	0.785974562	0.785313272	0.784681438	0.784921492	0.786879364
##	[266]	0.791388668	0.799253311	0.811229002	0.828004320	0.850182144
##	[271]	0.878262375	0.912626889	0.953527644	1.001078704	1.055252742
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##	[306]	3.006431684	2.999770195	2.988039850	2.971725749	2.951445479
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##	[316]	2.803984141	2.789481346	2.783477763	2.788598296	2.807597093
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##	[331]	4.473327175	4.754918485	5.048660900	5.351203744	5.659273127
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##	[376]	8.140751858	7.911635223	7.674493156	7.430435529	7.180697839
##	[381]	6.926647141	6.669784635	6.411743538	6.154280776	5.899260947
##	[386]	5.648631239	5.404386341	5.168523142	4.942986017	4.729604779
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##	[396]	3.776829485	3.677630922	3.594664610	3.526873050	3.472957401
##	[401]	3.431443680	3.400749683	3.379247932	3.365321158	3.357408219
##	[406]	3.354039623	3.353862860	3.355658465	3.358348187	3.360996768
##	[411]	3.362808859	3.363122459	3.361400042	3.357218374	3.350257755
##	[416]	3.340291274	3.327174496	3.310835851	3.291267928	3.268519755
##	[421]	3.242690106	3.213921828	3.182397104	3.148333583	3.111981219
##	[426]	3.073619688	3.033556192	2.992123441	2.949677628	2.906596145
##	[431]	2.863274868	2.820124776	2.777567774	2.736031573	2.695943582
##	[436]	2.657723816	2.621776914	2.588483454	2.558190828	2.531204033
##	[441]	2.507776786	2.488103394	2.472311856	2.460458571	2.452525028
##	[446]	2.448416698	2.447964252	2.450927081	2.456998955	2.465815553
##	[451]	2.476963478	2.489990327	2.504415348	2.519740214	2.535459518
##	[456]	2.551070594	2.566082403	2.580023268	2.592447333	2.602939699
##	[461]	2.611120261	2.616646308	2.619214009	2.618558916	2.614455661
##	[466]	2.606717013	2.595192460	2.579766502	2.560356803	2.536912354
##	[471]	2.509411777	2.477861874	2.442296514	2.402775915	2.359386361
##	[476]	2.312240341	2.261477105	2.207263560	2.149795411	2.089298438
##	[481]	2.026029732	1.960278705	1.892367685	1.822651839	1.751518218
##	[486]	1.679383686	1.606691521	1.533906549	1.461508680	1.389984851
##	[491]	1.319819440	1.251483366	1.185422188	1.122043660	1.061705302
##	[496]	1.004702616	0.951258626	0.901515411	0.855528200	0.813262505
##	[501]	0.774594575	0.739315247	0.707137081	0.677704440	0.650606023
##	[506]	0.625389232	0.601575691	0.578677207	0.556211517	0.533717211
##	[511]	0.510767337	0.486981273	0.462034589	0.435666669	0.407685998
##	[516]	0.377973036	0.346480694	0.313232454	0.278318214	0.241887992
##	[521]	0.204143668	0.165328999	0.125718193	0.085603419	0.045281693
##	[526]	0.005041629	-0.034849384	-0.074157012	-0.112690237	-0.150309542
##	[531]	-0.186932584	-0.222537045	-0.257160498	-0.290897310	-0.323892751
##	[536]	-0.356334632	-0.388442943	-0.420458038	-0.452627957	-0.485195530
##	[541]	-0.518385835	-0.552394584	-0.587377911	-0.623443985	-0.660646779
##	[546]	-0.698982240	-0.738387047	-0.778740033	-0.819866283	-0.861543836
##	[551]	-0.903512793	-0.945486553	-0.987164778	-1.028247575	-1.068450273
##	[556]	-1.107518106	-1.145240049	-1.181461048	-1.216091948	-1.249116506
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##	[566]	-1.421973642	-1.449295242	-1.477215517	-1.506143935	-1.536468614
##	[571]	-1.568540289	-1.602657364	-1.639052412	-1.677880407	-1.719208919
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##	[616]	-0.964372700	-0.898045528	-0.836591333	-0.780320635	-0.729469001
##	[621]	-0.684192710	-0.644564628	-0.610570419	-0.582105254	-0.558971238
##	[626]	-0.540875819	-0.527431480	-0.518157073	-0.512481165	-0.509747806
##	[631]	-0.509225068	-0.510116681	-0.511576959	-0.512729037	-0.512686224
##	[636]	-0.510575996	-0.505565853	-0.496889957	-0.483875214	-0.465965318
##	[641]	-0.442741205	-0.413936511	-0.379446908	-0.339332586	-0.293813698
##	[646]	-0.243259082	-0.188169091	-0.129153725	-0.066907528	-0.002182754
##	[651]	0.064237744	0.131566638	0.199036309	0.265920373	0.331552207
##	[656]	0.395340326	0.456780704	0.515466288	0.571093984	0.623469502
##	[661]	0.672510373	0.718247426	0.760824958	0.800499716	0.837638729
##	[666]	0.872715933	0.906307421	0.939085096	0.971808404	1.005313829
##	[671]	1.040501806	1.078320779	1.119748240	1.165768764	1.217349293
##	[676]	1.275412218	1.340807109	1.414282261	1.496457457	1.587799508
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##	[686]	2.331445754	2.484542250	2.643970692	2.808691494	2.977588638
##	[691]	3.149497463	3.323230933	3.497603438	3.671451488	3.843650998
##	[696]	4.013131109	4.178884699	4.339975894	4.495544962	4.644811022
##	[701]	4.787072994	4.921709192	5.048175928	5.166005426	5.274803311
##	[706]	5.374245864	5.464077212	5.544106548	5.614205465	5.674305427
##	[711]	5.724395405	5.764519645	5.794775539	5.815311547	5.826325097
##	[716]	5.828060381	5.820805953	5.804892040	5.780687454	5.748596024
##	[721]	5.709052444	5.662517473	5.609472441	5.550413037	5.485842404
##	[726]	5.416263609	5.342171606	5.264044873	5.182336932	5.097468042
##	[731]	5.009817360	4.919715899	4.827440602	4.733209850	4.637180639
##	[736]	4.539447642	4.440044252	4.338945654	4.236073839	4.131304430
##	[741]	4.024475095	3.915395282	3.803856960	3.689646061	3.572554312
##	[746]	3.452391155	3.328995514	3.202247173	3.072077575	2.938479890
##	[751]	2.801518194	2.661335621	2.518161342	2.372316198	2.224216773
##	[756]	2.074377672	1.923411697	1.772027603	1.621025073	1.471286561
##	[761]	1.323765699	1.179472044	1.039452107	0.904766819	0.776465840
##	[766]	0.655559456	0.542989125	0.439597990	0.346102949	0.263069889
##	[771]	0.190893691	0.129784304	0.079759837	0.040647081	0.012089310
##	[776]	-0.006439333	-0.015613980	-0.016235166	-0.009202507	0.004512539
##	[781]	0.023893458	0.047903884	0.075510438	0.105702692	0.137510050
##	[786]	0.170015550	0.202366775	0.233784157	0.263567009	0.291097647
##	[791]	0.315843918	0.337360431	0.355288718	0.369356494	0.379376132
##	[796]	0.385242402	0.386929489	0.384487249	0.378036658	0.367764363
##	[801]	0.353916279	0.336790161	0.316727118	0.294102108	0.269313470
##	[806]	0.242771667	0.214887452	0.186059800	0.156663966	0.127040142
##	[811]	0.097483178	0.068233843	0.039472087	0.011312662	-0.016196645

##	[816]	-0.043074017	-0.069399885	-0.095310644	-0.120990097	-0.146659055
##	[821]	-0.172563572	-0.198962344	-0.226113830	-0.254263593	-0.283632347
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##	[831]	-0.492272442	-0.532402399	-0.573679176	-0.615826052	-0.658517473
##	[836]	-0.701387600	-0.744040357	-0.786060663	-0.827026445	-0.866520987
##	[841]	-0.904145104	-0.939528639	-0.972340770	-1.002298669	-1.029174138
##	[846]	-1.052797970	-1.073061912	-1.089918259	-1.103377259	-1.113502653
##	[851]	-1.120405745	-1.124238499	-1.125186151	-1.123459839	-1.119289668
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##	[866]	-0.983875915	-0.970012021	-0.956988845	-0.945058966	-0.934470096
##	[871]	-0.925461399	-0.918259014	-0.913070911	-0.910081251	-0.909444475
##	[876]	-0.911279365	-0.915663321	-0.922627146	-0.932150603	-0.944159008
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##	[886]	-1.057178344	-1.079914078	-1.102701379	-1.125103045	-1.146691461
##	[891]	-1.167064046	-1.185858814	-1.202769304	-1.217558068	-1.230067976
##	[896]	-1.240230616	-1.248071275	-1.253710155	-1.257359696	-1.259318183
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##	[1006]	-0.849959896	-0.849040175	-0.845642526	-0.839643562	-0.830935635
##	[1011]	-0.819412870	-0.804957552	-0.787427841	-0.766647811	-0.742400650
##	[1016]	-0.714425756	-0.682420218	-0.646044965	-0.604935543	-0.558717194
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##	[1026]	-0.156932934	-0.067888399	0.027195518	0.127928679	0.233793483
##	[1031]	0.344156492	0.458285099	0.575368055	0.694538462	0.814897843
##	[1036]	0.935539993	1.055573494	1.174142067	1.290442185	1.403737637
##	[1041]	1.513370949	1.618771755	1.719462307	1.815060390	1.905279948
##	[1046]	1.989929694	2.068909980	2.142208150	2.209892566	2.272105461
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## [1066]	2.774065266	2.788584649	2.801614389	2.812974890	2.822441634
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## [1076]	2.823432802	2.811438590	2.795210530	2.774521874	2.749185310
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## [1086]	2.495145003	2.436190277	2.372932261	2.305658380	2.234704433
## [1091]	2.160449884	2.083312000	2.003738842	1.922201127	1.839183070
## [1096]	1.755172334	1.670649322	1.586076087	1.501885222	1.418469144
## [1101]	1.336170205	1.255272097	1.175992969	1.098480622	1.022810072
## [1106]	0.948983626	0.876933518	0.806526975	0.737573499	0.669833998
## [1111]	0.603031338	0.536861846	0.471007236	0.405146501	0.338967285
## [1116]	0.272176364	0.204508888	0.135736127	0.065671533	-0.005825013
## [1121]	-0.078844832	-0.153429970	-0.229574562	-0.307227964	-0.386299483
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## [1136]	-1.305862355	-1.390495334	-1.475056335	-1.559578727	-1.644107811
## [1141]	-1.728690676	-1.813364669	-1.898144965	-1.983011826	-2.067898174
## [1146]	-2.152678120	-2.237157136	-2.321064541	-2.404048972	-2.485677461
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## [1201]	-3.305648182	-3.280690782	-3.248073660	-3.208088281	-3.161183231
## [1206]	-3.107947354	-3.049088922	-2.985412194	-2.917792739	-2.847152797
## [1211]	-2.774437768	-2.700594658	-2.626553046	-2.553208869	-2.481411108
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## [1226]	-1.968557764	-1.956110516	-1.949704891	-1.949166038	-1.954251657
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## [1276]	-2.201722972	-2.191935845	-2.181929220	-2.171606718	-2.160899477
## [1281]	-2.149769669	-2.138212475	-2.126256455	-2.113962349	-2.101420383
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## [1301]	-1.972575345	-1.972729005	-1.973662417	-1.975260723	-1.977408017
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## [1316]	-2.015575194	-2.019788779	-2.024156271	-2.028653679	-2.033224374
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## [1346]	-1.167719525	-1.076420310	-0.984788728	-0.893770389	-0.804288171
## [1351]	-0.717224224	-0.633404435	-0.553585401	-0.478443781	-0.408567822
## [1356]	-0.344450769	-0.286485883	-0.234962773	-0.190064812	-0.151867454
## [1361]	-0.120337346	-0.095332212	-0.076601552	-0.063788311	-0.056431716
## [1366]	-0.053971578	-0.055754371	-0.061041458	-0.069019781	-0.078815316
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## [1376]	-0.123823302	-0.120840899	-0.112954407	-0.099714677	-0.080826325
## [1381]	-0.056155791	-0.025732777	0.010255023	0.051473507	0.097459207
## [1386]	0.147640577	0.201362117	0.257909870	0.316536883	0.376487449
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## [1401]	0.949447684	0.984159720	1.015533365	1.043698711	1.068833293
## [1406]	1.091153882	1.110907960	1.128364986	1.143807618	1.157523008
## [1411]	1.169794328	1.180892675	1.191069509	1.200549784	1.209525902
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## [1441]	0.996118281	0.941144333	0.880802217	0.815085009	0.744029017
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## [3151]	-4.480838458	-4.447374828	-4.411985671	-4.375042980	-4.336997637
## [3156]	-4.298364930	-4.259707576	-4.221617103	-4.184694441	-4.149530497
## [3161]	-4.116687384	-4.086680823	-4.059964107	-4.036913867	-4.017817802
## [3166]	-4.002864425	-3.992134867	-3.985596752	-3.983100186	-3.984375921
## [3171]	-3.989035845	-3.996575943	-4.006381973	-4.017738066	-4.029838477
## [3176]	-4.041802632	-4.052693488	-4.061539068	-4.067356783	-4.069179885
## [3181]	-4.066085131	-4.057220470	-4.041831398	-4.019284525	-3.989086968
## [3186]	-3.950900422	-3.904549059	-3.850020908	-3.787462840	-3.717169789
## [3191]	-3.639569218	-3.555202137	-3.464702106	-3.368773610	-3.268171071
## [3196]	-3.163679505	-3.056097526	-2.946223143	-2.834842470	-2.722721286
## [3201]	-2.610599179	-2.499185922	-2.389159637	-2.281166334	-2.175820379
## [3206]	-2.073705542	-1.975376281	-1.881359026	-1.792153251	-1.708232213
## [3211]	-1.630043251	-1.558007623	-1.492519845	-1.433946547	-1.382624883
## [3216]	-1.338860507	-1.302925161	-1.275053913	-1.255442058	-1.244241736
## [3221]	-1.241558265	-1.247446229	-1.261905338	-1.284876100	-1.316235338
## [3226]	-1.355791636	-1.403280790	-1.458361401	-1.520610787	-1.589521439
## [3231]	-1.664498311	-1.744857296	-1.829825303	-1.918542402	-2.010066542
## [3236]	-2.103381340	-2.197407398	-2.291017496	-2.383055829	-2.472361192
## [3241]	-2.557793697	-2.638264211	-2.712765310	-2.780402210	-2.840421840
## [3246]	-2.892238152	-2.935451855	-2.969863081	-2.995475988	-3.012494969
## [3251]	-3.021312806	-3.022491776	-3.016739194	-3.004879221	-2.987822838
## [3256]	-2.966537811	-2.942020189	-2.915268528	-2.887261641	-2.858940280
## [3261]	-2.831192843	-2.804844899	-2.780652202	-2.759296694	-2.741384983
## [3266]	-2.727448783	-2.717946806	-2.713267677	-2.713733481	-2.719603635
## [3271]	-2.731078799	-2.748304650	-2.771375329	-2.800336462	-2.835187646
## [3276]	-2.875884360	-2.922339252	-2.974422787	-3.031963277	-3.094746301
## [3281]	-3.162513582	-3.234961405	-3.311738666	-3.392444720	-3.476627215
## [3286]	-3.563780134	-3.653342346	-3.744696992	-3.837172085	-3.930042746
## [3291]	-4.022535484	-4.113834960	-4.203093563	-4.289444085	-4.372015562
## [3296]	-4.449952178	-4.522434832	-4.588704696	-4.648087751	-4.700019067
## [3301]	-4.744065378	-4.779944450	-4.807539821	-4.826909748	-4.838289561
## [3306]	-4.842087144	-4.838871743	-4.829356838	-4.814378185	-4.794868421
## [3311]	-4.771829705	-4.746305849	-4.719355198	-4.692025272	-4.665329895

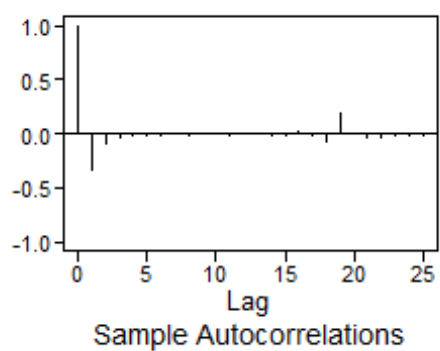
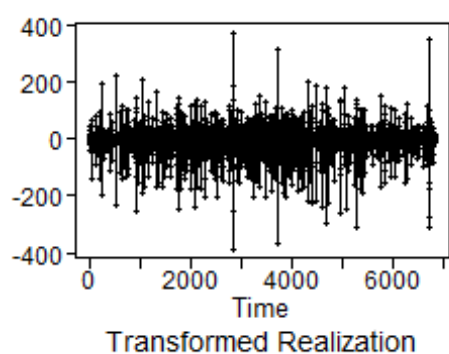
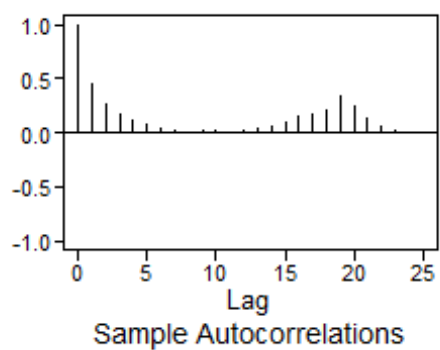
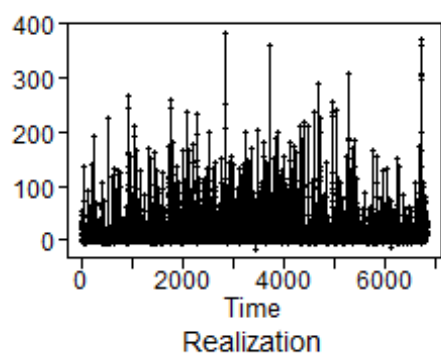
```
## [3316] -4.640229218 -4.617612798 -4.598285663 -4.582957153 -4.572232205
## [3321] -4.566604751 -4.566452836 -4.572035181 -4.583488907 -4.600828272
## [3326] -4.623944350 -4.652605666 -4.686459946 -4.725037179 -4.767754338
## [3331] -4.813922101 -4.862754006 -4.913378432 -4.964853737 -5.016186769
## [3336] -5.066354749 -5.114330286 -5.159108930 -5.199738354 -5.235347897
## [3341] -5.265176943 -5.288600454 -5.305149977 -5.314528638 -5.316619015
## [3346] -5.311483284 -5.299355647 -5.280627644 -5.255827474 -5.225594828
## [3351] -5.190652940 -5.151779568 -5.109778486 -5.065452785 -5.019580966
## [3356] -4.972896456 -4.926070881 -4.879701122 -4.834300040 -4.790290567
## [3361] -4.748002824 -4.707673907 -4.669449951 -4.633390184 -4.599472661
## [3366] -4.567601462 -4.537615149 -4.509296314 -4.482382060 -4.456575253
## [3371] -4.431556366 -4.406995708 -4.382565794 -4.357953565 -4.332872148
## [3376] -4.307071804 -4.280349726 -4.252558331 -4.223611767 -4.193490374
## [3381] -4.162242952 -4.129986760 -4.096905282 -4.063243888 -4.029303612
## [3386] -3.995433324 -3.962020642 -3.929481929 -3.898251735 -3.868772018
## [3391] -3.841481424 -3.816804885 -3.795143713 -3.776866326 -3.762299702
## [3396] -3.751721602 -3.745353590 -3.743354849 -3.745816813 -3.752758615
## [3401] -3.764123391 -3.779775505 -3.799498805 -3.822996034 -3.849889594
## [3406] -3.879723861 -3.911969308 -3.946028658 -3.981245305 -4.016914163
## [3411] -4.052295030 -4.086628416 -4.119153619 -4.149128636 -4.175851293
## [3416] -4.198680758 -4.217058454 -4.230527270 -4.238747957 -4.241511688
```

## Model 1

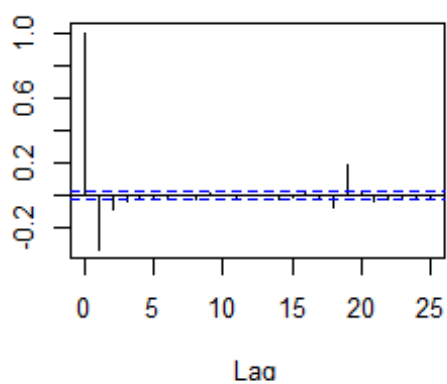
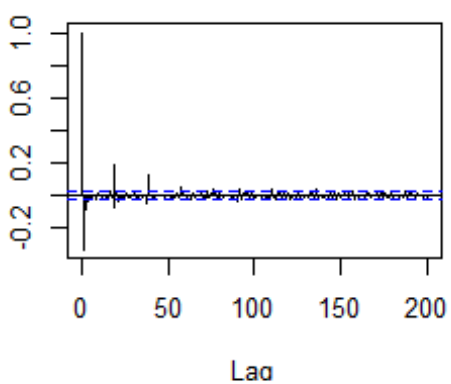
### Difference the data for average flight delays

Looks close to white noise after differenced

```
FD_1 = artrans.wge(flightdf$avg_dep_delay,1)
```



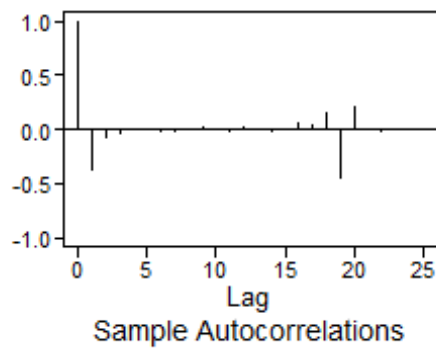
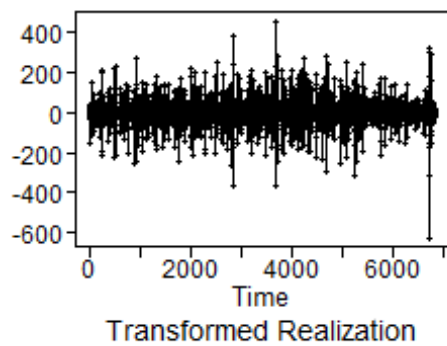
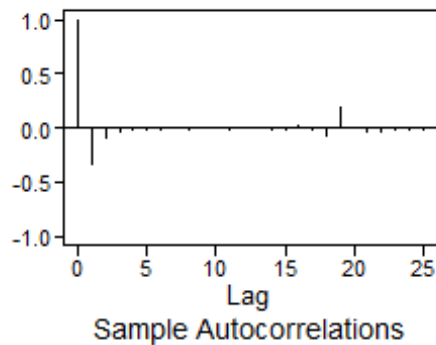
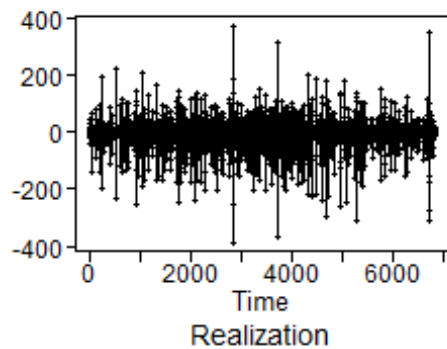
```
acf(FD_1, lag.max = 200)
acf(FD_1, lag.max = 25)
```





## $(1-B^{19})X_t=a_t$

```
FD_1_19 = artrans.wge(FD_1, phi.tr = c(rep(0,18),1))
```



```
aic5.wge(FD_1_19)
```

```
## -----WORKING... PLEASE WAIT...
##
##
## Five Smallest Values of aic
##   p   q   aic
##   0   1  7.114578
##   5   0  7.132675
##   4   0  7.146099
##   3   0  7.169307
##   2   0  7.210373
```

```
aic5.wge(FD_1_19, type = "bic")
```

```
## -----WORKING... PLEASE WAIT...
##
##
## Five Smallest Values of bic
##   p   q   bic
##   0   1  7.116580
##   5   0  7.138682
##   4   0  7.151104
```

##	3	0	7.173311
##	2	0	7.213376