

# final

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1.

```
library(quantmod)
```

```
## 载入需要的程辑包：xts
```

```
## 载入需要的程辑包：zoo
```

```
##  
## 载入程辑包：'zoo'
```

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

```
## 载入需要的程辑包：TTR
```

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

```
library(aTSA)
```

```
##  
## 载入程辑包：'aTSA'
```

```
## The following object is masked from 'package:graphics':  
##  
##   identify
```

```
library(tseries)
```

```
##  
## 载入程辑包：'tseries'
```

```
## The following objects are masked from 'package:aTSA':  
##  
##   adf.test, kpss.test, pp.test
```

```
library(TSA)
```

```
##  
## 载入程辑包：'TSA'
```

```
## The following objects are masked from 'package:stats':  
##  
##      acf, arima
```

```
## The following object is masked from 'package:utils':  
##  
##      tar
```

```
library(forecast)
```

```
## Registered S3 methods overwritten by 'forecast':  
##      method      from  
##      fitted.Arima TSA  
##      plot.Arima   TSA
```

```
##  
## 载入程辑包：'forecast'
```

```
## The following object is masked from 'package:aTSA':  
##  
##      forecast
```

```
library(fGarch)
```

```
## NOTE: Packages 'fBasics', 'timeDate', and 'timeSeries' are no longer  
## attached to the search() path when 'fGarch' is attached.  
##  
## If needed attach them yourself in your R script by e.g.,  
##      require("timeSeries")
```

```
##  
## 载入程辑包：'fGarch'
```

```
## The following object is masked from 'package:TTR':  
##  
##      volatility
```

```
library(rugarch)
```

```
## 载入需要的程辑包：parallel
```

```
##  
## 载入程辑包：'rugarch'
```

```
## The following object is masked from 'package:stats':  
##  
##      sigma
```

```
library(mvtnorm)  
library(MTS)
```

```
##  
## 载入程辑包：'MTS'
```

```
## The following object is masked from 'package:TTR':  
##  
##      VMA
```

```
##### 1  
# 冠忠  
setSymbolLookup(KC=list(name="0306.HK",src="yahoo"))  
getSymbols("KC", from = "2021-01-01", to = "2024-04-20")
```

```
## [1] "KC"
```

```
KC=na.omit(KC)  
KC
```

##	0306. HK. Open	0306. HK. High	0306. HK. Low	0306. HK. Close	0306. HK. Volume
## 2021-01-04	2.25	2.31	2.25	2.28	36000
## 2021-01-05	2.20	2.20	2.20	2.20	2000
## 2021-01-06	2.20	2.20	2.20	2.20	0
## 2021-01-07	2.18	2.18	2.16	2.18	32000
## 2021-01-08	2.16	2.16	2.15	2.15	28000
## 2021-01-11	2.17	2.17	2.16	2.17	74000
## 2021-01-12	2.18	2.18	2.18	2.18	0
## 2021-01-13	2.18	2.18	2.18	2.18	0
## 2021-01-14	2.17	2.18	2.15	2.18	44000
## 2021-01-15	2.19	2.19	2.18	2.19	88000
## 2021-01-18	2.15	2.15	2.15	2.15	0
## 2021-01-19	2.15	2.15	2.11	2.15	176000
## 2021-01-20	2.28	2.29	2.25	2.25	8000
## 2021-01-21	2.25	2.27	2.25	2.25	40000
## 2021-01-22	2.25	2.25	2.25	2.25	0
## 2021-01-25	2.13	2.25	2.13	2.25	31147
## 2021-01-26	2.25	2.25	2.25	2.25	0
## 2021-01-27	2.20	2.20	2.20	2.20	0
## 2021-01-28	2.23	2.23	2.23	2.23	0
## 2021-01-29	2.23	2.23	2.23	2.23	0
## 2021-02-01	2.23	2.23	2.23	2.23	0
## 2021-02-02	2.21	2.21	2.21	2.21	0
## 2021-02-03	2.16	2.16	2.16	2.16	4000
## 2021-02-04	2.17	2.18	2.17	2.17	36000
## 2021-02-05	2.17	2.18	2.15	2.15	82000
## 2021-02-08	2.15	2.15	2.15	2.15	0
## 2021-02-09	2.15	2.20	2.14	2.20	114000
## 2021-02-10	2.14	2.14	2.14	2.14	0
## 2021-02-11	2.18	2.18	2.18	2.18	0
## 2021-02-16	2.22	2.46	2.22	2.45	222000
## 2021-02-17	2.46	2.46	2.43	2.43	52000
## 2021-02-18	2.43	2.43	2.43	2.43	100000
## 2021-02-19	2.38	2.38	2.38	2.38	12000
## 2021-02-22	2.41	2.43	2.41	2.41	92000
## 2021-02-23	2.45	2.59	2.42	2.56	104000
## 2021-02-24	2.56	2.59	2.42	2.53	118000
## 2021-02-25	2.50	2.51	2.50	2.51	36000
## 2021-02-26	2.50	2.50	2.50	2.50	0
## 2021-03-01	2.31	2.33	2.28	2.35	50000
## 2021-03-02	2.35	2.35	2.31	2.35	56000
## 2021-03-03	2.29	2.50	2.28	2.39	62000
## 2021-03-04	2.39	2.39	2.32	2.39	18000
## 2021-03-05	2.37	2.37	2.37	2.37	0
## 2021-03-08	2.33	2.33	2.33	2.33	0
## 2021-03-09	2.33	2.33	2.28	2.30	34000
## 2021-03-10	2.30	2.30	2.21	2.25	254000
## 2021-03-11	2.25	2.30	2.20	2.33	84000
## 2021-03-12	2.31	2.31	2.28	2.31	50000
## 2021-03-15	2.31	2.31	2.31	2.31	0
## 2021-03-16	2.31	2.31	2.31	2.31	4000
## 2021-03-17	2.33	2.34	2.33	2.33	34000
## 2021-03-18	2.33	2.33	2.33	2.33	0
## 2021-03-19	2.32	2.30	2.25	2.30	20000
## 2021-03-22	2.35	2.35	2.33	2.34	16000

## 2021-03-23	2.34	2.34	2.27	2.30	6000
## 2021-03-24	2.33	2.33	2.25	2.28	30000
## 2021-03-25	2.28	2.28	2.28	2.28	0
## 2021-03-26	2.33	2.33	2.30	2.30	8000
## 2021-03-29	2.33	2.33	2.31	2.33	102000
## 2021-03-30	2.33	2.33	2.33	2.33	6000
## 2021-03-31	2.33	2.33	2.33	2.33	8000
## 2021-04-01	2.33	2.33	2.33	2.33	0
## 2021-04-07	2.33	2.33	2.33	2.33	0
## 2021-04-08	2.33	2.33	2.33	2.33	6000
## 2021-04-09	2.28	2.28	2.18	2.22	142000
## 2021-04-12	2.26	2.26	2.26	2.26	20000
## 2021-04-13	2.27	2.70	2.27	2.48	274000
## 2021-04-14	2.50	2.50	2.40	2.41	220000
## 2021-04-15	2.41	2.41	2.41	2.44	4000
## 2021-04-16	2.48	2.48	2.48	2.48	0
## 2021-04-19	2.44	2.44	2.40	2.43	120000
## 2021-04-20	2.47	2.47	2.43	2.43	22000
## 2021-04-21	2.42	2.58	2.41	2.41	78000
## 2021-04-22	2.43	2.44	2.43	2.43	12000
## 2021-04-23	2.43	2.43	2.43	2.43	2000
## 2021-04-26	2.43	2.43	2.43	2.43	0
## 2021-04-27	2.43	2.43	2.43	2.43	0
## 2021-04-28	2.43	2.43	2.43	2.43	0
## 2021-04-29	2.50	2.50	2.50	2.50	0
## 2021-04-30	2.50	2.50	2.42	2.47	46000
## 2021-05-03	2.43	2.43	2.43	2.43	0
## 2021-05-04	2.43	2.43	2.43	2.43	0
## 2021-05-05	2.43	2.43	2.43	2.43	4000
## 2021-05-06	2.40	2.40	2.40	2.40	2000
## 2021-05-07	2.40	2.40	2.40	2.40	0
## 2021-05-10	2.40	2.40	2.40	2.40	0
## 2021-05-11	2.40	2.40	2.40	2.40	24000
## 2021-05-12	2.40	2.40	2.40	2.40	0
## 2021-05-13	2.47	2.47	2.47	2.47	0
## 2021-05-14	2.44	2.44	2.44	2.44	0
## 2021-05-17	2.41	2.41	2.41	2.41	4000
## 2021-05-18	2.41	2.47	2.41	2.47	42000
## 2021-05-20	2.47	2.47	2.40	2.40	12000
## 2021-05-21	2.46	2.46	2.40	2.42	6000
## 2021-05-24	2.43	2.50	2.41	2.42	64000
## 2021-05-25	2.42	2.42	2.42	2.42	10000
## 2021-05-26	2.48	2.48	2.48	2.48	22000
## 2021-05-27	2.41	2.46	2.40	2.41	34000
## 2021-05-28	2.45	2.45	2.45	2.45	0
## 2021-05-31	2.42	2.49	2.41	2.41	104000
## 2021-06-01	2.39	2.39	2.39	2.39	0
## 2021-06-02	2.39	2.43	2.37	2.43	52000
## 2021-06-03	2.43	2.47	2.42	2.42	12000
## 2021-06-04	2.42	2.42	2.42	2.42	0
## 2021-06-07	2.42	2.42	2.42	2.42	4000
## 2021-06-08	2.36	2.36	2.11	2.36	120000
## 2021-06-09	2.36	2.36	2.36	2.36	0
## 2021-06-10	2.32	2.32	2.32	2.32	0
## 2021-06-11	2.43	2.43	2.33	2.34	6000
## 2021-06-15	2.40	2.40	2.40	2.40	0

## 2021-06-16	2.38	2.38	2.38	2.38	0
## 2021-06-17	2.38	2.38	2.38	2.38	0
## 2021-06-18	2.38	2.38	2.38	2.38	0
## 2021-06-21	2.38	2.42	2.38	2.42	14000
## 2021-06-22	2.39	2.47	2.39	2.47	10000
## 2021-06-23	2.40	2.40	2.40	2.40	2000
## 2021-06-24	2.40	2.40	2.40	2.40	78000
## 2021-06-25	2.40	2.40	2.40	2.40	0
## 2021-06-28	2.40	2.40	2.40	2.40	0
## 2021-06-29	2.40	2.40	2.40	2.40	0
## 2021-06-30	2.40	2.40	2.40	2.40	38000
## 2021-07-02	2.40	2.40	2.40	2.40	22000
## 2021-07-05	2.37	2.37	2.37	2.37	0
## 2021-07-06	2.37	2.37	2.37	2.37	0
## 2021-07-07	2.40	2.40	2.40	2.40	2000
## 2021-07-08	2.40	2.40	2.36	2.40	6000
## 2021-07-09	2.40	2.40	2.40	2.40	0
## 2021-07-12	2.40	2.40	2.40	2.40	2000
## 2021-07-13	2.35	2.35	2.22	2.27	20000
## 2021-07-14	2.30	2.33	2.28	2.28	60000
## 2021-07-15	2.40	2.40	2.40	2.38	10000
## 2021-07-16	2.36	2.36	2.36	2.36	0
## 2021-07-19	2.30	2.30	2.30	2.30	10000
## 2021-07-20	2.21	2.27	2.20	2.27	40000
## 2021-07-21	2.27	2.27	2.27	2.27	0
## 2021-07-22	2.28	2.28	2.27	2.27	16000
## 2021-07-23	2.27	2.27	2.27	2.27	0
## 2021-07-26	2.39	2.39	2.25	2.26	10000
## 2021-07-27	2.29	2.29	2.20	2.20	22000
## 2021-07-28	2.20	2.20	2.17	2.17	20000
## 2021-07-29	2.32	2.32	2.20	2.32	44000
## 2021-07-30	2.32	2.32	2.32	2.32	0
## 2021-08-02	2.19	2.19	2.19	2.19	40000
## 2021-08-03	2.20	2.20	2.20	2.20	46000
## 2021-08-04	2.20	2.20	2.20	2.20	54000
## 2021-08-05	2.20	2.20	2.18	2.18	62000
## 2021-08-06	2.20	2.20	2.20	2.20	4000
## 2021-08-09	2.20	2.20	2.20	2.20	0
## 2021-08-10	2.19	2.19	2.19	2.19	10000
## 2021-08-11	2.19	2.19	2.19	2.19	8000
## 2021-08-12	2.18	2.18	2.18	2.18	0
## 2021-08-13	2.18	2.18	2.18	2.18	6000
## 2021-08-16	2.18	2.18	2.18	2.18	0
## 2021-08-17	2.18	2.18	2.18	2.18	0
## 2021-08-18	2.10	2.15	2.10	2.10	50000
## 2021-08-19	2.11	2.12	2.08	2.08	74000
## 2021-08-20	2.09	2.09	2.02	2.02	64000
## 2021-08-23	2.01	2.02	2.00	2.02	32000
## 2021-08-24	2.03	2.03	2.03	2.03	10000
## 2021-08-25	2.03	2.03	2.03	2.03	0
## 2021-08-26	2.03	2.03	2.03	2.03	0
## 2021-08-27	1.98	2.01	1.97	2.01	44000
## 2021-08-30	2.00	2.00	2.00	2.00	4000
## 2021-08-31	1.98	1.98	1.98	1.98	2000
## 2021-09-01	1.97	1.97	1.97	1.97	10000
## 2021-09-02	1.97	1.97	1.97	1.97	0

## 2021-09-03	1.99	1.99	1.99	1.99	0
## 2021-09-06	2.09	2.09	2.09	2.09	0
## 2021-09-07	2.05	2.16	2.05	2.15	68000
## 2021-09-08	2.08	2.08	2.08	2.08	0
## 2021-09-09	2.01	2.04	2.01	2.10	22000
## 2021-09-10	2.14	2.14	2.14	2.14	2000
## 2021-09-13	2.00	2.00	2.00	2.06	4000
## 2021-09-14	2.14	2.14	2.14	2.14	18000
## 2021-09-15	2.20	2.23	2.20	2.19	64000
## 2021-09-16	2.19	2.20	2.19	2.18	152000
## 2021-09-17	2.21	2.21	2.21	2.21	0
## 2021-09-20	2.14	2.14	2.14	2.14	0
## 2021-09-21	2.14	2.14	2.14	2.14	0
## 2021-09-23	2.14	2.14	2.14	2.14	0
## 2021-09-24	2.12	2.12	2.12	2.12	0
## 2021-09-27	2.11	2.11	2.11	2.11	0
## 2021-09-28	2.10	2.10	2.10	2.11	4000
## 2021-09-29	2.09	2.09	2.09	2.09	0
## 2021-09-30	2.09	2.09	2.09	2.09	6000
## 2021-10-04	2.20	2.14	2.14	2.14	10000
## 2021-10-05	2.15	2.15	2.14	2.13	8000
## 2021-10-06	2.13	2.13	2.05	2.06	18000
## 2021-10-07	2.20	2.20	2.20	2.20	0
## 2021-10-08	2.17	2.17	2.17	2.17	0
## 2021-10-11	2.17	2.17	2.17	2.17	0
## 2021-10-12	2.17	2.17	2.17	2.17	0
## 2021-10-15	2.11	2.11	2.10	2.10	14000
## 2021-10-18	2.10	2.10	2.10	2.10	0
## 2021-10-19	2.07	2.27	2.07	2.08	14000
## 2021-10-20	2.09	2.09	2.09	2.09	0
## 2021-10-21	2.10	2.10	2.10	2.10	16000
## 2021-10-22	2.15	2.15	2.15	2.15	0
## 2021-10-25	2.27	2.27	2.16	2.16	8000
## 2021-10-26	2.16	2.16	2.16	2.16	6000
## 2021-10-27	2.16	2.16	2.16	2.16	2000
## 2021-10-28	2.16	2.16	2.16	2.16	0
## 2021-10-29	2.16	2.16	2.16	2.16	0
## 2021-11-01	2.22	2.24	2.22	2.24	6000
## 2021-11-02	2.24	2.24	2.24	2.24	0
## 2021-11-03	2.22	2.22	2.22	2.22	0
## 2021-11-04	2.22	2.22	2.22	2.22	0
## 2021-11-05	2.22	2.22	2.22	2.23	4000
## 2021-11-08	2.28	2.40	2.28	2.29	70000
## 2021-11-09	2.37	2.38	2.37	2.38	18000
## 2021-11-10	2.43	2.43	2.38	2.38	74000
## 2021-11-11	2.33	2.33	2.33	2.33	0
## 2021-11-12	2.30	2.30	2.28	2.28	47324
## 2021-11-15	2.20	2.29	2.20	2.29	34000
## 2021-11-16	2.24	2.29	2.24	2.29	24000
## 2021-11-17	2.29	2.29	2.29	2.29	0
## 2021-11-18	2.06	2.10	1.97	2.16	74000
## 2021-11-19	2.22	2.22	2.22	2.22	0
## 2021-11-22	2.23	2.39	2.23	2.36	100000
## 2021-11-23	2.36	2.36	2.36	2.36	18000
## 2021-11-24	2.36	2.36	2.36	2.36	0
## 2021-11-25	2.36	2.36	2.36	2.36	0

## 2021-11-26	2.32	2.32	2.32	2.32	0
## 2021-11-29	2.32	2.32	2.32	2.32	0
## 2021-11-30	2.32	2.32	2.32	2.32	0
## 2021-12-01	2.32	2.32	2.32	2.32	0
## 2021-12-02	2.12	2.17	2.10	2.16	32000
## 2021-12-03	2.17	2.17	2.08	2.10	26000
## 2021-12-06	2.08	2.10	2.08	2.10	16000
## 2021-12-07	2.10	2.10	2.10	2.10	0
## 2021-12-08	2.10	2.10	2.10	2.10	0
## 2021-12-09	2.09	2.09	2.09	2.09	0
## 2021-12-10	2.09	2.09	2.09	2.09	0
## 2021-12-13	2.09	2.09	2.09	2.09	0
## 2021-12-14	2.09	2.09	2.09	2.09	0
## 2021-12-15	2.10	2.10	2.10	2.10	6000
## 2021-12-16	2.10	2.10	2.10	2.10	4000
## 2021-12-17	2.16	2.16	2.10	2.10	6000
## 2021-12-20	2.11	2.11	2.11	2.11	0
## 2021-12-21	2.11	2.11	2.11	2.11	0
## 2021-12-22	2.11	2.11	2.11	2.11	0
## 2021-12-23	2.09	2.09	2.09	2.09	2000
## 2021-12-24	2.09	2.09	2.09	2.09	0
## 2021-12-28	2.09	2.09	2.09	2.09	0
## 2021-12-29	2.09	2.09	2.09	2.09	0
## 2021-12-30	2.09	2.09	2.09	2.09	10000
## 2021-12-31	2.09	2.09	2.09	2.09	0
## 2022-01-03	2.09	2.09	2.09	2.09	0
## 2022-01-04	2.15	2.15	2.15	2.15	0
## 2022-01-05	2.15	2.15	2.15	2.15	0
## 2022-01-06	2.10	2.10	2.10	2.10	0
## 2022-01-07	2.01	2.07	1.94	2.02	26000
## 2022-01-10	1.99	2.03	1.94	2.05	20000
## 2022-01-11	1.98	1.98	1.96	1.98	22000
## 2022-01-12	1.97	2.00	1.88	1.98	56000
## 2022-01-13	1.99	1.99	1.99	1.99	0
## 2022-01-14	1.99	1.99	1.99	1.99	0
## 2022-01-17	1.99	1.99	1.99	1.99	0
## 2022-01-18	1.99	1.99	1.99	1.99	0
## 2022-01-19	1.99	1.99	1.99	1.99	0
## 2022-01-20	1.99	1.99	1.99	1.99	0
## 2022-01-21	1.99	1.99	1.99	1.99	0
## 2022-01-24	1.99	1.99	1.99	1.99	0
## 2022-01-25	1.90	1.90	1.90	1.90	4000
## 2022-01-26	1.90	1.90	1.90	1.90	2000
## 2022-01-27	1.90	1.94	1.90	1.94	28000
## 2022-01-28	1.94	1.94	1.94	1.94	0
## 2022-01-31	1.94	1.94	1.94	1.94	0
## 2022-02-04	1.95	1.95	1.95	1.95	0
## 2022-02-07	1.91	1.91	1.91	1.91	0
## 2022-02-08	1.91	1.91	1.91	1.91	0
## 2022-02-09	1.91	1.91	1.91	1.91	0
## 2022-02-10	1.88	1.88	1.88	1.88	4000
## 2022-02-11	1.88	1.88	1.87	1.88	14000
## 2022-02-14	1.88	1.88	1.88	1.88	0
## 2022-02-15	1.88	1.91	1.88	1.91	26000
## 2022-02-16	1.90	1.90	1.90	1.90	0
## 2022-02-17	1.90	1.90	1.90	1.90	12000



## 2022-02-18	1.85	1.85	1.85	1.85	0
## 2022-02-21	1.85	1.85	1.85	1.85	16000
## 2022-02-22	1.74	1.85	1.72	1.85	188000
## 2022-02-23	1.85	1.86	1.82	1.82	100000
## 2022-02-24	1.82	1.82	1.72	1.72	34000
## 2022-02-25	1.72	1.72	1.72	1.72	0
## 2022-02-28	1.71	1.71	1.71	1.71	8000
## 2022-03-01	1.71	1.71	1.70	1.70	18000
## 2022-03-02	1.70	1.70	1.70	1.70	0
## 2022-03-03	1.70	1.70	1.70	1.70	0
## 2022-03-04	1.70	1.70	1.70	1.70	0
## 2022-03-07	1.70	1.70	1.68	1.68	60000
## 2022-03-08	1.69	1.69	1.69	1.69	0
## 2022-03-09	1.68	1.68	1.68	1.69	2000
## 2022-03-10	1.80	1.82	1.80	1.82	8000
## 2022-03-11	1.81	1.81	1.81	1.81	0
## 2022-03-14	1.70	1.72	1.60	1.61	202000
## 2022-03-15	1.62	1.62	1.55	1.60	46000
## 2022-03-16	1.60	1.68	1.60	1.68	16000
## 2022-03-17	1.55	1.59	1.50	1.50	158000
## 2022-03-18	1.52	1.67	1.50	1.67	74000
## 2022-03-21	1.67	1.74	1.67	1.74	28000
## 2022-03-22	1.74	1.80	1.74	1.80	102000
## 2022-03-23	1.80	1.80	1.80	1.80	0
## 2022-03-24	1.85	1.85	1.80	1.80	26000
## 2022-03-25	1.79	1.79	1.79	1.79	0
## 2022-03-28	1.78	1.78	1.78	1.78	0
## 2022-03-29	1.78	1.78	1.78	1.78	0
## 2022-03-30	1.80	1.80	1.80	1.80	0
## 2022-03-31	1.85	1.85	1.80	1.80	64000
## 2022-04-01	1.80	1.80	1.80	1.80	0
## 2022-04-04	1.80	1.80	1.80	1.80	0
## 2022-04-06	1.80	1.80	1.80	1.80	0
## 2022-04-07	1.81	1.81	1.80	1.80	32000
## 2022-04-08	1.80	1.80	1.80	1.80	0
## 2022-04-11	1.80	1.80	1.80	1.80	0
## 2022-04-12	1.80	1.80	1.80	1.80	0
## 2022-04-13	1.75	1.80	1.75	1.80	24441
## 2022-04-14	1.80	1.80	1.80	1.80	0
## 2022-04-19	1.78	1.78	1.78	1.78	34000
## 2022-04-20	1.80	1.80	1.80	1.80	2000
## 2022-04-21	1.81	1.81	1.81	1.81	0
## 2022-04-22	1.85	1.88	1.85	1.85	36000
## 2022-04-25	1.85	1.85	1.85	1.85	0
## 2022-04-26	1.85	1.88	1.85	1.85	196000
## 2022-04-27	1.86	2.08	1.85	2.00	372176
## 2022-04-28	2.00	2.00	2.00	2.00	36000
## 2022-04-29	1.92	2.00	1.92	2.00	12000
## 2022-05-03	2.00	2.00	2.00	2.00	0
## 2022-05-04	2.06	2.06	2.06	2.06	18000
## 2022-05-05	2.07	2.19	2.06	2.18	159864
## 2022-05-06	2.18	2.42	2.18	2.42	304000
## 2022-05-10	2.40	2.59	2.34	2.43	550000
## 2022-05-11	2.50	3.20	2.50	2.99	1218376
## 2022-05-12	3.01	3.05	2.45	2.45	778000
## 2022-05-13	2.50	2.51	2.50	2.51	24000

## 2022-05-16	2.52	2.52	2.50	2.51	152000
## 2022-05-17	2.51	2.70	2.50	2.70	152000
## 2022-05-18	2.70	2.70	2.70	2.70	10000
## 2022-05-19	2.70	2.75	2.70	2.75	100000
## 2022-05-20	2.70	2.77	2.55	2.76	108000
## 2022-05-23	2.70	2.70	2.70	2.70	0
## 2022-05-24	2.70	2.72	2.70	2.70	34000
## 2022-05-25	2.67	2.67	2.67	2.67	0
## 2022-05-26	2.67	2.67	2.67	2.67	0
## 2022-05-27	2.54	2.54	2.54	2.54	0
## 2022-05-30	2.54	2.54	2.37	2.37	22000
## 2022-05-31	2.39	2.39	2.35	2.37	40000
## 2022-06-01	2.31	2.31	2.26	2.29	140000
## 2022-06-02	2.30	2.30	2.30	2.30	70000
## 2022-06-06	2.30	2.35	2.30	2.35	26000
## 2022-06-07	2.35	2.40	2.35	2.40	22000
## 2022-06-08	2.40	2.40	2.30	2.30	14000
## 2022-06-09	2.25	2.25	2.25	2.25	0
## 2022-06-10	2.20	2.25	2.15	2.20	50000
## 2022-06-13	2.20	2.20	2.20	2.20	4000
## 2022-06-14	2.20	2.20	2.20	2.20	30000
## 2022-06-15	2.20	2.20	2.20	2.20	0
## 2022-06-16	2.30	2.55	2.15	2.23	66000
## 2022-06-17	2.23	2.23	2.23	2.23	0
## 2022-06-20	2.23	2.23	2.23	2.23	0
## 2022-06-21	2.20	2.20	2.19	2.20	20000
## 2022-06-22	2.07	2.11	2.06	2.11	22000
## 2022-06-23	2.06	2.45	2.05	2.35	10000
## 2022-06-24	2.20	2.20	2.19	2.20	18000
## 2022-06-27	2.25	2.25	2.25	2.25	0
## 2022-06-28	2.40	2.44	2.40	2.42	56000
## 2022-06-29	2.40	2.40	2.40	2.40	2000
## 2022-06-30	2.40	2.40	2.40	2.40	0
## 2022-07-04	2.20	2.20	2.20	2.20	0
## 2022-07-05	2.29	2.29	2.29	2.29	0
## 2022-07-06	2.30	2.30	2.30	2.30	10000
## 2022-07-07	2.30	2.30	2.30	2.30	0
## 2022-07-08	2.30	2.30	2.30	2.30	0
## 2022-07-11	2.30	2.30	2.30	2.30	0
## 2022-07-12	2.29	2.29	2.29	2.29	0
## 2022-07-13	2.15	2.15	2.15	2.15	0
## 2022-07-14	2.15	2.15	2.15	2.15	0
## 2022-07-15	2.15	2.15	2.15	2.15	0
## 2022-07-18	2.18	2.18	2.18	2.18	0
## 2022-07-19	2.18	2.18	2.18	2.18	0
## 2022-07-20	2.28	2.28	2.28	2.28	6000
## 2022-07-21	2.11	2.11	2.08	2.08	20000
## 2022-07-22	2.08	2.08	2.08	2.08	0
## 2022-07-25	2.08	2.08	2.08	2.07	32000
## 2022-07-26	2.01	2.01	1.97	2.03	20000
## 2022-07-27	2.03	2.03	2.03	2.03	0
## 2022-07-28	2.03	2.03	2.03	2.03	10020
## 2022-07-29	2.00	2.00	2.00	2.00	0
## 2022-08-01	2.00	2.00	2.00	2.00	0
## 2022-08-02	1.92	1.95	1.90	1.92	84000
## 2022-08-03	1.92	1.92	1.92	1.92	0

## 2022-08-04	1.97	1.97	1.97	1.97	10000
## 2022-08-05	1.97	1.97	1.97	1.97	0
## 2022-08-08	2.00	2.00	1.95	1.95	14000
## 2022-08-09	1.95	1.95	1.95	1.95	0
## 2022-08-10	1.95	1.95	1.95	1.95	0
## 2022-08-11	1.97	1.97	1.97	1.97	0
## 2022-08-12	1.97	1.97	1.97	1.97	0
## 2022-08-15	1.97	1.97	1.97	1.97	0
## 2022-08-16	1.97	1.97	1.97	1.97	0
## 2022-08-17	1.97	1.97	1.97	1.97	0
## 2022-08-18	1.97	1.97	1.97	1.97	0
## 2022-08-19	1.97	1.97	1.97	1.97	0
## 2022-08-22	1.97	1.97	1.97	1.97	0
## 2022-08-23	1.96	1.96	1.87	1.87	46000
## 2022-08-24	1.88	1.88	1.86	1.86	18000
## 2022-08-25	1.86	1.86	1.86	1.86	0
## 2022-08-26	1.86	1.86	1.86	1.86	0
## 2022-08-29	1.86	1.88	1.86	1.86	42000
## 2022-08-30	1.86	1.86	1.86	1.86	0
## 2022-08-31	1.86	1.86	1.86	1.86	0
## 2022-09-01	1.84	1.86	1.65	1.86	56000
## 2022-09-02	1.86	1.86	1.86	1.86	0
## 2022-09-05	1.86	1.86	1.86	1.86	0
## 2022-09-06	1.86	1.86	1.86	1.86	0
## 2022-09-07	1.86	1.86	1.86	1.86	0
## 2022-09-08	1.86	1.86	1.86	1.86	0
## 2022-09-09	1.86	1.86	1.86	1.86	0
## 2022-09-13	1.70	1.81	1.69	1.81	28000
## 2022-09-14	1.81	1.81	1.81	1.81	0
## 2022-09-15	1.81	1.81	1.81	1.81	0
## 2022-09-16	1.81	1.81	1.81	1.81	0
## 2022-09-19	1.80	1.80	1.80	1.80	0
## 2022-09-20	1.80	1.80	1.80	1.80	0
## 2022-09-21	1.80	1.80	1.80	1.80	0
## 2022-09-22	1.80	1.80	1.80	1.80	0
## 2022-09-23	1.66	1.79	1.60	1.79	20000
## 2022-09-26	1.86	1.86	1.75	1.85	46000
## 2022-09-27	1.85	1.86	1.75	1.85	10000
## 2022-09-28	1.86	1.86	1.86	1.86	0
## 2022-09-29	1.86	1.86	1.84	1.84	16000
## 2022-09-30	1.84	1.84	1.84	1.84	0
## 2022-10-03	1.84	1.84	1.84	1.84	0
## 2022-10-05	1.84	1.88	1.83	1.86	72000
## 2022-10-06	1.90	1.94	1.86	1.92	78000
## 2022-10-07	1.86	1.92	1.86	1.89	52000
## 2022-10-10	1.85	1.85	1.85	1.85	0
## 2022-10-11	1.85	1.85	1.85	1.85	0
## 2022-10-12	1.83	1.83	1.75	1.82	8000
## 2022-10-13	1.82	1.82	1.82	1.82	0
## 2022-10-14	1.75	1.81	1.75	1.81	20000
## 2022-10-17	1.81	1.81	1.81	1.81	0
## 2022-10-18	1.77	1.77	1.77	1.77	0
## 2022-10-19	1.77	1.77	1.77	1.77	0
## 2022-10-20	1.77	1.77	1.77	1.77	0
## 2022-10-21	1.77	1.77	1.77	1.77	0
## 2022-10-24	1.77	1.77	1.77	1.77	0

## 2022-10-25	1.86	1.93	1.86	1.85	32000
## 2022-10-26	1.85	1.85	1.85	1.85	0
## 2022-10-27	1.83	1.83	1.83	1.83	0
## 2022-10-28	1.80	1.80	1.80	1.80	0
## 2022-10-31	1.70	1.86	1.61	1.61	32000
## 2022-11-01	1.65	1.65	1.65	1.65	0
## 2022-11-02	1.67	1.70	1.67	1.70	12000
## 2022-11-03	1.61	1.68	1.54	1.58	110000
## 2022-11-04	1.58	1.60	1.58	1.70	206000
## 2022-11-07	1.69	1.70	1.69	1.70	20000
## 2022-11-08	1.80	1.80	1.80	1.80	10000
## 2022-11-09	1.80	1.80	1.80	1.80	0
## 2022-11-10	1.79	1.79	1.79	1.79	0
## 2022-11-11	1.74	1.80	1.68	1.80	22000
## 2022-11-14	1.66	1.80	1.66	1.80	22000
## 2022-11-15	1.78	1.78	1.78	1.78	0
## 2022-11-16	1.75	1.80	1.68	1.80	10000
## 2022-11-17	1.80	1.80	1.80	1.80	0
## 2022-11-18	1.77	1.77	1.77	1.77	0
## 2022-11-21	1.73	1.80	1.70	1.80	10000
## 2022-11-22	1.80	1.80	1.80	1.80	0
## 2022-11-23	1.68	1.79	1.68	1.79	4000
## 2022-11-24	1.78	1.78	1.78	1.78	0
## 2022-11-25	1.78	1.78	1.78	1.78	0
## 2022-11-28	1.78	1.78	1.78	1.78	0
## 2022-11-29	1.80	1.80	1.71	1.79	32000
## 2022-11-30	1.80	1.86	1.77	1.77	56000
## 2022-12-01	1.80	1.80	1.77	1.80	32000
## 2022-12-02	1.80	1.85	1.76	1.85	164000
## 2022-12-05	1.91	1.98	1.88	1.96	100000
## 2022-12-06	1.88	1.94	1.88	1.88	68000
## 2022-12-07	1.85	1.99	1.85	1.93	64000
## 2022-12-08	1.94	2.19	1.94	2.14	268000
## 2022-12-09	2.13	2.22	2.13	2.20	122000
## 2022-12-12	2.20	2.43	2.20	2.37	170000
## 2022-12-13	2.37	2.79	2.37	2.70	1056000
## 2022-12-14	2.72	2.74	2.50	2.66	296000
## 2022-12-15	2.56	2.59	2.46	2.46	132000
## 2022-12-16	2.46	2.48	2.33	2.40	144000
## 2022-12-19	2.45	2.55	2.43	2.44	92000
## 2022-12-20	2.40	2.40	2.25	2.38	280000
## 2022-12-21	2.56	2.56	2.44	2.44	190000
## 2022-12-22	2.48	2.52	2.47	2.48	150000
## 2022-12-23	2.50	2.55	2.50	2.50	178000
## 2022-12-28	2.55	2.80	2.55	2.62	502000
## 2022-12-29	2.62	2.59	2.55	2.56	92000
## 2022-12-30	2.56	2.56	2.46	2.47	64000
## 2023-01-03	2.45	2.45	2.39	2.43	168000
## 2023-01-04	2.44	2.52	2.44	2.48	174000
## 2023-01-05	2.55	2.56	2.46	2.46	114000
## 2023-01-06	2.49	2.57	2.47	2.48	224000
## 2023-01-09	2.48	2.52	2.45	2.45	150000
## 2023-01-10	2.42	2.52	2.42	2.51	102000
## 2023-01-11	2.51	2.51	2.40	2.40	152000
## 2023-01-12	2.40	2.40	2.38	2.40	72000
## 2023-01-13	2.40	2.40	2.32	2.38	100000

## 2023-01-16	2.38	2.38	2.35	2.35	72000
## 2023-01-17	2.33	2.33	2.32	2.32	64000
## 2023-01-18	2.33	2.33	2.32	2.33	66000
## 2023-01-19	2.33	2.39	2.33	2.39	34000
## 2023-01-20	2.33	2.34	2.27	2.31	336000
## 2023-01-26	2.32	2.34	2.31	2.31	22000
## 2023-01-27	2.31	2.34	2.28	2.29	116000
## 2023-01-30	2.30	2.33	2.28	2.28	88000
## 2023-01-31	2.28	2.33	2.25	2.25	52000
## 2023-02-01	2.29	2.29	2.22	2.22	218000
## 2023-02-02	2.22	2.22	2.22	2.22	14000
## 2023-02-03	2.25	2.65	2.28	2.65	1196000
## 2023-02-06	2.65	2.65	2.48	2.48	492000
## 2023-02-07	2.44	2.44	2.39	2.40	180000
## 2023-02-08	2.40	2.41	2.39	2.40	52000
## 2023-02-09	2.46	2.37	2.33	2.33	222000
## 2023-02-10	2.32	2.33	2.32	2.32	304000
## 2023-02-13	2.32	2.32	2.32	2.32	0
## 2023-02-14	2.30	2.44	2.28	2.43	26000
## 2023-02-15	2.36	2.36	2.29	2.32	124000
## 2023-02-16	2.32	2.32	2.31	2.32	64000
## 2023-02-17	2.28	2.31	2.28	2.31	26000
## 2023-02-20	2.27	2.29	2.27	2.30	54000
## 2023-02-21	2.32	2.38	2.29	2.38	22000
## 2023-02-22	2.37	2.37	2.29	2.29	6000
## 2023-02-23	2.30	2.30	2.28	2.28	40000
## 2023-02-24	2.28	2.28	2.28	2.28	0
## 2023-02-27	2.30	2.30	2.28	2.28	28000
## 2023-02-28	2.27	2.27	2.27	2.27	0
## 2023-03-01	2.27	2.34	2.27	2.32	16000
## 2023-03-02	2.34	2.34	2.29	2.29	62000
## 2023-03-03	2.29	2.28	2.23	2.28	284012
## 2023-03-06	2.28	2.30	2.25	2.26	32000
## 2023-03-07	2.26	2.26	2.26	2.26	0
## 2023-03-08	2.26	2.26	2.26	2.26	0
## 2023-03-09	2.24	2.26	2.24	2.26	34000
## 2023-03-10	2.21	2.21	2.19	2.19	58000
## 2023-03-13	2.19	2.21	2.19	2.21	114000
## 2023-03-14	2.21	2.22	2.21	2.21	38000
## 2023-03-15	2.21	2.21	2.21	2.21	10000
## 2023-03-16	2.20	2.20	2.20	2.20	0
## 2023-03-17	2.21	2.25	2.21	2.22	112000
## 2023-03-20	2.22	2.22	2.22	2.22	0
## 2023-03-21	2.22	2.22	2.22	2.22	0
## 2023-03-22	2.22	2.22	2.22	2.22	0
## 2023-03-23	2.12	2.12	2.12	2.12	10000
## 2023-03-24	2.17	2.59	2.17	2.29	26000
## 2023-03-27	2.20	2.26	2.20	2.26	20000
## 2023-03-28	2.26	2.26	2.26	2.26	0
## 2023-03-29	2.13	2.18	2.13	2.15	46000
## 2023-03-30	2.15	2.15	2.08	2.15	120000
## 2023-03-31	2.15	2.15	2.15	2.15	0
## 2023-04-03	2.15	2.15	2.15	2.15	28000
## 2023-04-04	2.15	2.15	2.15	2.15	0
## 2023-04-06	2.15	2.18	2.15	2.18	52000
## 2023-04-11	2.20	2.26	2.18	2.24	108000

## 2023-04-12	2.24	2.24	2.20	2.20	56000
## 2023-04-13	2.18	2.15	2.15	2.15	4000
## 2023-04-14	2.15	2.15	2.15	2.15	0
## 2023-04-17	2.15	2.15	2.15	2.15	0
## 2023-04-18	2.17	2.18	2.17	2.17	26000
## 2023-04-19	2.17	2.17	2.17	2.17	0
## 2023-04-20	2.12	2.12	2.12	2.12	0
## 2023-04-21	2.12	2.12	2.12	2.12	0
## 2023-04-24	2.13	2.13	2.13	2.13	0
## 2023-04-25	2.10	2.10	2.10	2.10	12000
## 2023-04-26	2.12	2.12	2.12	2.12	0
## 2023-04-27	2.15	2.15	2.15	2.15	0
## 2023-04-28	2.15	2.15	2.15	2.21	44883
## 2023-05-02	2.11	2.12	2.11	2.12	6000
## 2023-05-03	2.12	2.16	2.10	2.16	8000
## 2023-05-04	2.34	2.38	2.15	2.21	144000
## 2023-05-05	2.13	2.13	2.13	2.13	12000
## 2023-05-08	2.13	2.13	2.13	2.13	0
## 2023-05-09	2.13	2.13	2.13	2.13	0
## 2023-05-10	2.08	2.08	2.08	2.08	0
## 2023-05-11	2.11	2.11	2.10	2.10	32000
## 2023-05-12	2.10	2.10	2.10	2.10	0
## 2023-05-15	2.10	2.10	2.10	2.10	0
## 2023-05-16	2.11	2.11	2.11	2.11	0
## 2023-05-17	2.11	2.11	2.11	2.11	0
## 2023-05-18	2.11	2.11	2.10	2.10	10000
## 2023-05-19	2.10	2.20	2.08	2.08	36000
## 2023-05-22	2.08	2.08	2.06	2.06	80000
## 2023-05-23	2.05	2.05	2.02	2.05	22000
## 2023-05-24	2.02	2.02	1.99	1.99	94000
## 2023-05-25	1.99	2.01	1.89	1.92	54000
## 2023-05-29	1.89	1.89	1.85	1.85	90000
## 2023-05-30	1.78	1.86	1.73	1.86	70000
## 2023-05-31	1.86	1.86	1.86	1.86	0
## 2023-06-01	1.86	1.86	1.86	1.86	0
## 2023-06-02	1.88	1.94	1.88	1.93	22353
## 2023-06-05	1.76	1.78	1.75	1.78	88000
## 2023-06-06	1.83	1.90	1.82	1.85	18000
## 2023-06-07	1.85	1.85	1.85	1.85	0
## 2023-06-08	1.85	1.85	1.85	1.85	0
## 2023-06-09	1.85	1.85	1.85	1.85	0
## 2023-06-12	1.85	1.85	1.82	1.84	114000
## 2023-06-13	1.84	1.84	1.84	1.84	0
## 2023-06-14	1.84	1.84	1.84	1.84	0
## 2023-06-15	1.85	1.85	1.85	1.85	20000
## 2023-06-16	1.85	1.88	1.85	1.87	24000
## 2023-06-19	1.87	1.87	1.87	1.87	0
## 2023-06-20	1.87	1.87	1.87	1.87	0
## 2023-06-21	1.87	1.87	1.87	1.87	0
## 2023-06-23	1.87	1.87	1.87	1.87	0
## 2023-06-26	1.87	1.87	1.87	1.87	0
## 2023-06-27	1.87	1.87	1.87	1.87	0
## 2023-06-28	1.87	1.87	1.87	1.87	0
## 2023-06-29	1.82	1.85	1.82	1.85	22000
## 2023-06-30	1.85	1.85	1.81	1.85	24000
## 2023-07-03	1.85	1.85	1.85	1.85	4000

## 2023-07-04	1.84	1.84	1.84	1.84	0
## 2023-07-05	1.84	1.84	1.84	1.84	0
## 2023-07-06	1.84	1.84	1.84	1.84	0
## 2023-07-07	1.80	1.80	1.79	1.80	16000
## 2023-07-10	1.75	1.75	1.75	1.75	0
## 2023-07-11	1.75	1.75	1.70	1.75	42000
## 2023-07-12	1.88	1.95	1.80	1.80	8000
## 2023-07-13	1.81	1.81	1.79	1.79	18000
## 2023-07-14	1.80	1.85	1.78	1.85	16000
## 2023-07-18	1.85	1.85	1.85	1.85	0
## 2023-07-19	1.73	1.74	1.73	1.74	28000
## 2023-07-20	1.69	1.74	1.69	1.74	6000
## 2023-07-21	1.74	1.74	1.74	1.74	0
## 2023-07-24	1.70	1.70	1.70	1.70	0
## 2023-07-25	1.70	1.75	1.70	1.75	22000
## 2023-07-26	1.75	1.75	1.70	1.72	26000
## 2023-07-27	1.75	1.75	1.72	1.72	20000
## 2023-07-28	1.72	1.75	1.70	1.75	144000
## 2023-07-31	1.75	1.75	1.75	1.75	8000
## 2023-08-01	1.75	1.75	1.75	1.75	0
## 2023-08-02	1.77	1.77	1.77	1.77	0
## 2023-08-03	1.77	1.77	1.77	1.77	0
## 2023-08-04	1.79	1.79	1.78	1.78	20000
## 2023-08-07	1.80	1.80	1.74	1.80	6000
## 2023-08-08	1.93	1.93	1.80	1.80	46000
## 2023-08-09	1.80	1.80	1.80	1.80	0
## 2023-08-10	1.77	1.77	1.77	1.77	0
## 2023-08-11	1.92	1.95	1.73	1.77	40000
## 2023-08-14	1.70	1.71	1.70	1.74	30000
## 2023-08-15	1.70	1.70	1.70	1.70	4000
## 2023-08-16	1.75	1.75	1.67	1.67	50000
## 2023-08-17	1.63	1.69	1.55	1.69	156000
## 2023-08-18	1.69	1.71	1.69	1.70	8000
## 2023-08-21	1.63	1.72	1.63	1.72	38000
## 2023-08-22	1.70	1.70	1.70	1.70	0
## 2023-08-23	1.69	1.69	1.69	1.69	0
## 2023-08-24	1.69	1.69	1.69	1.69	0
## 2023-08-25	1.69	1.69	1.69	1.69	0
## 2023-08-28	1.66	1.70	1.66	1.68	22000
## 2023-08-29	1.70	1.70	1.66	1.70	6000
## 2023-08-30	1.70	1.70	1.70	1.70	0
## 2023-08-31	1.76	1.76	1.60	1.62	38000
## 2023-09-04	1.67	1.67	1.60	1.67	8000
## 2023-09-05	1.65	1.67	1.56	1.67	44000
## 2023-09-06	1.67	1.67	1.67	1.67	0
## 2023-09-07	1.67	1.67	1.60	1.64	104000
## 2023-09-11	1.66	1.70	1.60	1.67	50000
## 2023-09-12	1.61	1.61	1.58	1.61	34000
## 2023-09-13	1.66	1.68	1.62	1.66	62000
## 2023-09-14	1.66	1.66	1.66	1.66	0
## 2023-09-15	1.62	1.68	1.60	1.63	72000
## 2023-09-18	1.63	1.63	1.63	1.63	0
## 2023-09-19	1.63	1.63	1.63	1.63	0
## 2023-09-20	1.63	1.63	1.63	1.63	0
## 2023-09-21	1.63	1.63	1.63	1.63	0
## 2023-09-22	1.59	1.64	1.57	1.62	14000

## 2023-09-25	1.57	1.67	1.57	1.58	42000
## 2023-09-26	1.57	1.62	1.52	1.61	64000
## 2023-09-27	1.62	1.66	1.57	1.66	14000
## 2023-09-28	1.66	1.76	1.59	1.76	14000
## 2023-09-29	1.76	1.90	1.65	1.70	106000
## 2023-10-03	1.65	1.66	1.61	1.61	52000
## 2023-10-04	1.57	1.57	1.52	1.54	70000
## 2023-10-05	1.55	1.57	1.52	1.57	14000
## 2023-10-06	1.63	1.63	1.56	1.62	18000
## 2023-10-09	1.62	1.62	1.62	1.62	0
## 2023-10-10	1.63	1.64	1.55	1.64	18000
## 2023-10-11	1.56	1.65	1.55	1.59	158000
## 2023-10-12	1.66	1.69	1.56	1.69	70000
## 2023-10-13	1.69	1.69	1.69	1.69	0
## 2023-10-16	1.75	1.75	1.68	1.70	58000
## 2023-10-17	1.75	1.75	1.62	1.66	90000
## 2023-10-18	1.60	1.61	1.60	1.61	620000
## 2023-10-19	1.68	1.68	1.60	1.64	6000
## 2023-10-20	1.64	1.64	1.64	1.64	0
## 2023-10-24	1.62	1.65	1.62	1.64	10000
## 2023-10-25	1.63	1.63	1.61	1.61	26000
## 2023-10-26	1.61	1.61	1.61	1.61	0
## 2023-10-27	1.64	1.65	1.57	1.65	10000
## 2023-10-30	1.65	1.65	1.65	1.65	0
## 2023-10-31	1.61	1.65	1.61	1.65	8000
## 2023-11-01	1.65	1.65	1.65	1.65	0
## 2023-11-02	1.65	1.65	1.65	1.65	0
## 2023-11-03	1.65	1.68	1.62	1.68	18000
## 2023-11-06	1.68	1.68	1.68	1.68	0
## 2023-11-07	1.68	1.68	1.68	1.68	34000
## 2023-11-08	1.68	1.68	1.62	1.67	22000
## 2023-11-09	1.67	1.67	1.67	1.67	0
## 2023-11-10	1.61	1.65	1.58	1.65	66000
## 2023-11-13	1.58	1.60	1.55	1.60	6000
## 2023-11-14	1.60	1.60	1.60	1.60	0
## 2023-11-15	1.50	1.61	1.49	1.53	74000
## 2023-11-16	1.54	1.56	1.50	1.56	38000
## 2023-11-17	1.59	1.59	1.47	1.51	6000
## 2023-11-20	1.56	1.65	1.51	1.59	24000
## 2023-11-21	1.59	1.59	1.51	1.51	25665
## 2023-11-22	1.51	1.52	1.48	1.52	16000
## 2023-11-23	1.54	1.62	1.52	1.53	16000
## 2023-11-24	1.65	1.65	1.51	1.56	20000
## 2023-11-27	1.60	1.60	1.59	1.60	108000
## 2023-11-28	1.61	1.61	1.60	1.60	114000
## 2023-11-29	1.55	1.55	1.55	1.55	0
## 2023-11-30	1.52	1.53	1.48	1.52	40000
## 2023-12-01	1.50	1.51	1.50	1.51	12000
## 2023-12-04	1.51	1.52	1.50	1.52	82000
## 2023-12-05	1.52	1.52	1.52	1.52	0
## 2023-12-06	1.52	1.52	1.51	1.51	38000
## 2023-12-07	1.54	1.54	1.54	1.54	40000
## 2023-12-08	1.53	1.53	1.53	1.53	0
## 2023-12-11	1.49	1.53	1.49	1.53	44000
## 2023-12-12	1.56	1.56	1.56	1.56	0
## 2023-12-13	1.53	1.60	1.53	1.54	34000



## 2023-12-14	1.54	1.54	1.54	1.54	0
## 2023-12-15	1.60	1.60	1.60	1.60	2000
## 2023-12-18	1.60	1.60	1.60	1.60	0
## 2023-12-19	1.51	1.56	1.49	1.56	12000
## 2023-12-20	1.58	1.58	1.58	1.58	10000
## 2023-12-21	1.52	1.52	1.52	1.52	0
## 2023-12-22	1.53	1.55	1.52	1.55	16000
## 2023-12-27	1.55	1.60	1.55	1.55	76000
## 2023-12-28	1.55	1.55	1.55	1.55	6000
## 2023-12-29	1.53	1.60	1.53	1.58	64000
## 2024-01-02	1.62	1.76	1.62	1.75	106000
## 2024-01-03	1.76	1.85	1.76	1.85	80000
## 2024-01-04	1.88	1.92	1.80	1.88	114000
## 2024-01-05	1.88	1.88	1.88	1.88	22000
## 2024-01-08	1.88	1.88	1.88	1.88	36000
## 2024-01-09	1.88	1.88	1.85	1.86	30000
## 2024-01-10	1.83	1.83	1.83	1.83	0
## 2024-01-11	1.85	1.85	1.85	1.85	0
## 2024-01-12	1.85	1.85	1.85	1.85	0
## 2024-01-15	1.85	1.85	1.85	1.85	0
## 2024-01-16	1.80	1.80	1.80	1.81	48000
## 2024-01-17	1.77	1.77	1.75	1.76	38883
## 2024-01-18	1.75	1.90	1.75	1.90	10000
## 2024-01-19	1.89	1.89	1.89	1.89	0
## 2024-01-22	1.77	1.77	1.77	1.77	0
## 2024-01-23	1.78	1.78	1.78	1.78	6000
## 2024-01-24	1.88	1.89	1.86	1.86	8000
## 2024-01-25	1.88	1.88	1.88	1.88	0
## 2024-01-26	1.88	1.88	1.86	1.86	32000
## 2024-01-29	1.88	1.88	1.88	1.88	0
## 2024-01-30	1.86	1.86	1.86	1.86	4000
## 2024-01-31	1.86	1.86	1.82	1.83	70000
## 2024-02-01	1.83	1.83	1.83	1.83	0
## 2024-02-02	1.88	1.88	1.88	1.88	22000
## 2024-02-05	1.88	1.88	1.88	1.88	0
## 2024-02-06	1.88	1.88	1.88	1.88	0
## 2024-02-07	1.88	1.88	1.72	1.73	142000
## 2024-02-08	1.79	1.79	1.74	1.74	18000
## 2024-02-09	1.67	1.67	1.67	1.67	0
## 2024-02-14	1.67	1.68	1.67	1.68	22000
## 2024-02-15	1.68	1.68	1.68	1.68	0
## 2024-02-16	1.69	1.69	1.69	1.69	0
## 2024-02-19	1.69	1.69	1.64	1.66	54000
## 2024-02-20	1.67	1.67	1.64	1.65	136000
## 2024-02-21	1.71	1.71	1.71	1.71	4000
## 2024-02-22	1.70	1.70	1.70	1.70	2000
## 2024-02-23	1.70	1.70	1.70	1.70	0
## 2024-02-26	1.70	1.70	1.70	1.70	0
## 2024-02-27	1.72	1.72	1.72	1.72	0
## 2024-02-28	1.72	1.80	1.72	1.80	16000
## 2024-02-29	1.77	1.77	1.75	1.75	38000
## 2024-03-01	1.72	1.72	1.70	1.70	26000
## 2024-03-04	1.67	1.67	1.65	1.65	44000
## 2024-03-05	1.67	1.67	1.67	1.67	4000
## 2024-03-06	1.67	1.67	1.67	1.67	0
## 2024-03-07	1.67	1.70	1.67	1.70	4000

##	2024-03-08	1.70	1.70	1.70	1.70	0
##	2024-03-11	1.69	1.69	1.69	1.70	18000
##	2024-03-12	1.71	1.71	1.71	1.71	0
##	2024-03-13	1.71	1.71	1.71	1.71	0
##	2024-03-14	1.71	1.71	1.71	1.71	0
##	2024-03-15	1.71	1.71	1.71	1.71	0
##	2024-03-18	1.71	1.72	1.66	1.72	108000
##	2024-03-19	1.72	1.72	1.72	1.72	14000
##	2024-03-20	1.75	1.78	1.75	1.78	78000
##	2024-03-21	1.66	1.78	1.75	1.74	2000
##	2024-03-22	1.74	1.75	1.74	1.74	16000
##	2024-03-25	1.72	1.72	1.72	1.72	0
##	2024-03-26	1.72	1.72	1.72	1.72	0
##	2024-03-27	1.72	1.72	1.72	1.72	0
##	2024-03-28	1.70	1.70	1.70	1.70	2000
##	2024-04-02	1.72	1.72	1.68	1.69	24000
##	2024-04-03	1.69	1.69	1.69	1.69	0
##	2024-04-05	1.71	1.71	1.71	1.71	26000
##	2024-04-08	1.70	1.70	1.70	1.70	10000
##	2024-04-09	1.71	1.71	1.71	1.71	12000
##	2024-04-10	1.71	1.71	1.71	1.71	30000
##	2024-04-11	1.71	1.71	1.71	1.71	0
##	2024-04-12	1.71	1.71	1.71	1.70	20000
##	2024-04-15	1.67	1.67	1.67	1.67	0
##	2024-04-16	1.68	1.68	1.68	1.68	24000
##	2024-04-17	1.68	1.68	1.68	1.68	0
##	2024-04-18	1.65	1.65	1.65	1.65	0
##	2024-04-19	1.64	1.64	1.64	1.63	10000
##	0306. HK. Adjusted					
##	2021-01-04	2.28				
##	2021-01-05	2.20				
##	2021-01-06	2.20				
##	2021-01-07	2.18				
##	2021-01-08	2.15				
##	2021-01-11	2.17				
##	2021-01-12	2.18				
##	2021-01-13	2.18				
##	2021-01-14	2.18				
##	2021-01-15	2.19				
##	2021-01-18	2.15				
##	2021-01-19	2.15				
##	2021-01-20	2.25				
##	2021-01-21	2.25				
##	2021-01-22	2.25				
##	2021-01-25	2.25				
##	2021-01-26	2.25				
##	2021-01-27	2.20				
##	2021-01-28	2.23				
##	2021-01-29	2.23				
##	2021-02-01	2.23				
##	2021-02-02	2.21				
##	2021-02-03	2.16				
##	2021-02-04	2.17				
##	2021-02-05	2.15				
##	2021-02-08	2.15				
##	2021-02-09	2.20				

## 2021-02-10	2.14
## 2021-02-11	2.18
## 2021-02-16	2.45
## 2021-02-17	2.43
## 2021-02-18	2.43
## 2021-02-19	2.38
## 2021-02-22	2.41
## 2021-02-23	2.56
## 2021-02-24	2.53
## 2021-02-25	2.51
## 2021-02-26	2.50
## 2021-03-01	2.35
## 2021-03-02	2.35
## 2021-03-03	2.39
## 2021-03-04	2.39
## 2021-03-05	2.37
## 2021-03-08	2.33
## 2021-03-09	2.30
## 2021-03-10	2.25
## 2021-03-11	2.33
## 2021-03-12	2.31
## 2021-03-15	2.31
## 2021-03-16	2.31
## 2021-03-17	2.33
## 2021-03-18	2.33
## 2021-03-19	2.30
## 2021-03-22	2.34
## 2021-03-23	2.30
## 2021-03-24	2.28
## 2021-03-25	2.28
## 2021-03-26	2.30
## 2021-03-29	2.33
## 2021-03-30	2.33
## 2021-03-31	2.33
## 2021-04-01	2.33
## 2021-04-07	2.33
## 2021-04-08	2.33
## 2021-04-09	2.22
## 2021-04-12	2.26
## 2021-04-13	2.48
## 2021-04-14	2.41
## 2021-04-15	2.44
## 2021-04-16	2.48
## 2021-04-19	2.43
## 2021-04-20	2.43
## 2021-04-21	2.41
## 2021-04-22	2.43
## 2021-04-23	2.43
## 2021-04-26	2.43
## 2021-04-27	2.43
## 2021-04-28	2.43
## 2021-04-29	2.50
## 2021-04-30	2.47
## 2021-05-03	2.43
## 2021-05-04	2.43
## 2021-05-05	2.43

## 2021-05-06	2.40
## 2021-05-07	2.40
## 2021-05-10	2.40
## 2021-05-11	2.40
## 2021-05-12	2.40
## 2021-05-13	2.47
## 2021-05-14	2.44
## 2021-05-17	2.41
## 2021-05-18	2.47
## 2021-05-20	2.40
## 2021-05-21	2.42
## 2021-05-24	2.42
## 2021-05-25	2.42
## 2021-05-26	2.48
## 2021-05-27	2.41
## 2021-05-28	2.45
## 2021-05-31	2.41
## 2021-06-01	2.39
## 2021-06-02	2.43
## 2021-06-03	2.42
## 2021-06-04	2.42
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## 2024-01-09	1.86
## 2024-01-10	1.83
## 2024-01-11	1.85
## 2024-01-12	1.85
## 2024-01-15	1.85
## 2024-01-16	1.81
## 2024-01-17	1.76
## 2024-01-18	1.90
## 2024-01-19	1.89
## 2024-01-22	1.77
## 2024-01-23	1.78
## 2024-01-24	1.86
## 2024-01-25	1.88
## 2024-01-26	1.86

## 2024-01-29	1.88
## 2024-01-30	1.86
## 2024-01-31	1.83
## 2024-02-01	1.83
## 2024-02-02	1.88
## 2024-02-05	1.88
## 2024-02-06	1.88
## 2024-02-07	1.73
## 2024-02-08	1.74
## 2024-02-09	1.67
## 2024-02-14	1.68
## 2024-02-15	1.68
## 2024-02-16	1.69
## 2024-02-19	1.66
## 2024-02-20	1.65
## 2024-02-21	1.71
## 2024-02-22	1.70
## 2024-02-23	1.70
## 2024-02-26	1.70
## 2024-02-27	1.72
## 2024-02-28	1.80
## 2024-02-29	1.75
## 2024-03-01	1.70
## 2024-03-04	1.65
## 2024-03-05	1.67
## 2024-03-06	1.67
## 2024-03-07	1.70
## 2024-03-08	1.70
## 2024-03-11	1.70
## 2024-03-12	1.71
## 2024-03-13	1.71
## 2024-03-14	1.71
## 2024-03-15	1.71
## 2024-03-18	1.72
## 2024-03-19	1.72
## 2024-03-20	1.78
## 2024-03-21	1.74
## 2024-03-22	1.74
## 2024-03-25	1.72
## 2024-03-26	1.72
## 2024-03-27	1.72
## 2024-03-28	1.70
## 2024-04-02	1.69
## 2024-04-03	1.69
## 2024-04-05	1.71
## 2024-04-08	1.70
## 2024-04-09	1.71
## 2024-04-10	1.71
## 2024-04-11	1.71
## 2024-04-12	1.70
## 2024-04-15	1.67
## 2024-04-16	1.68
## 2024-04-17	1.68
## 2024-04-18	1.65
## 2024-04-19	1.63



```
KC=KC$"0306.HK.Adjusted"  
plot(KC)
```



```
# 港铁  
setSymbolLookup(MTR=list(name="0066.HK",src="yahoo"))  
getSymbols("MTR", from = "2015-01-01", to = "2024-04-20")
```

```
## [1] "MTR"
```

```
MTR=na.omit(MTR)  
MTR
```

##	0066. HK. Open	0066. HK. High	0066. HK. Low	0066. HK. Close	0066. HK. Volume
## 2015-01-02	31.80	31.95	31.75	31.90	1231870
## 2015-01-05	31.65	32.10	31.65	31.80	2120890
## 2015-01-06	31.45	31.85	31.35	31.50	3531739
## 2015-01-07	31.25	31.75	31.10	31.70	3066795
## 2015-01-08	31.95	32.40	31.70	32.25	7878824
## 2015-01-09	32.25	32.60	32.10	32.50	3423905
## 2015-01-12	32.65	33.00	32.35	32.90	4369615
## 2015-01-13	32.90	33.60	32.65	33.55	4676056
## 2015-01-14	33.50	33.55	32.85	33.00	3460149
## 2015-01-15	32.85	33.40	32.75	33.35	2147029
## 2015-01-16	33.00	33.55	32.85	33.15	3142522
## 2015-01-19	33.60	33.60	33.10	33.25	2415712
## 2015-01-20	33.40	33.75	33.15	33.55	3703882
## 2015-01-21	33.25	33.55	33.20	33.35	3155010
## 2015-01-22	33.70	33.70	33.05	33.15	3186749
## 2015-01-23	33.15	33.70	33.05	33.55	2430246
## 2015-01-26	33.35	33.50	33.20	33.50	1642590
## 2015-01-27	33.55	33.75	33.30	33.65	2821282
## 2015-01-28	33.35	33.80	33.35	33.70	1907177
## 2015-01-29	33.75	34.60	33.45	34.60	4429009
## 2015-01-30	34.65	34.70	34.10	34.45	3300500
## 2015-02-02	34.50	34.50	33.65	34.00	4515930
## 2015-02-03	34.00	34.30	34.00	34.20	3018445
## 2015-02-04	33.70	34.25	33.70	34.20	3720806
## 2015-02-05	34.30	34.50	34.10	34.35	2450667
## 2015-02-06	34.30	34.50	34.10	34.40	1234632
## 2015-02-09	34.10	34.40	34.00	34.25	3866994
## 2015-02-10	34.20	34.30	33.80	34.25	1728105
## 2015-02-11	34.45	34.65	34.05	34.60	1973862
## 2015-02-12	34.20	34.75	34.20	34.75	2442146
## 2015-02-13	34.75	35.20	34.50	35.20	4477566
## 2015-02-16	35.30	35.30	34.70	34.95	2884390
## 2015-02-17	34.75	35.25	34.75	35.20	1953630
## 2015-02-18	34.95	35.20	34.85	34.85	1434877
## 2015-02-23	35.75	36.00	34.95	35.95	3701730
## 2015-02-24	35.90	35.95	35.60	35.85	2604917
## 2015-02-25	36.00	36.85	35.80	36.10	4738341
## 2015-02-26	36.20	36.50	35.85	35.95	3478413
## 2015-02-27	35.90	36.50	35.90	36.00	2588092
## 2015-03-02	36.20	36.20	35.15	35.55	3675301
## 2015-03-03	35.45	35.95	35.40	35.55	2401375
## 2015-03-04	35.50	35.75	34.75	34.80	3908081
## 2015-03-05	34.30	34.75	34.20	34.60	4849488
## 2015-03-06	34.55	34.70	34.15	34.20	3525284
## 2015-03-09	34.10	34.40	34.00	34.15	4215582
## 2015-03-10	34.55	34.95	34.35	34.80	4832390
## 2015-03-11	34.35	35.10	34.35	35.10	2582930
## 2015-03-12	35.35	35.75	35.10	35.25	3794746
## 2015-03-13	35.10	35.60	35.10	35.45	3311304
## 2015-03-16	35.10	35.40	34.80	34.90	3007437
## 2015-03-17	35.50	35.65	35.05	35.15	5461326
## 2015-03-18	35.20	35.50	35.05	35.40	3075489
## 2015-03-19	35.20	36.00	35.20	35.90	2681203
## 2015-03-20	35.95	36.25	35.80	36.05	3273619

## 2015-03-23	36.05	36.30	35.55	35.80	2108193
## 2015-03-24	35.80	36.30	35.55	36.20	3395716
## 2015-03-25	36.30	36.55	36.05	36.50	2299179
## 2015-03-26	36.25	36.50	36.20	36.40	2210288
## 2015-03-27	36.65	36.65	36.15	36.30	4437651
## 2015-03-30	36.35	36.80	36.35	36.75	4191438
## 2015-03-31	36.75	36.95	36.50	36.90	4479379
## 2015-04-01	37.00	37.30	36.70	37.10	2928284
## 2015-04-02	37.20	37.60	37.10	37.55	5663855
## 2015-04-08	38.50	38.55	37.75	38.30	6596475
## 2015-04-09	39.40	40.00	38.05	38.55	8111347
## 2015-04-10	38.85	39.00	38.35	38.95	5678239
## 2015-04-13	39.00	39.05	38.55	38.90	5902097
## 2015-04-14	39.15	39.20	38.40	38.50	4842545
## 2015-04-15	38.50	39.00	38.40	38.80	5563139
## 2015-04-16	38.85	38.85	38.30	38.55	2826935
## 2015-04-17	38.55	38.80	38.35	38.55	1784886
## 2015-04-20	38.55	38.60	37.80	37.90	2609456
## 2015-04-21	38.45	38.45	37.85	38.20	2578735
## 2015-04-22	38.05	38.40	38.05	38.30	2149535
## 2015-04-23	38.30	38.75	38.00	38.05	3120121
## 2015-04-24	38.30	38.55	37.80	38.50	1916141
## 2015-04-27	38.80	38.80	38.15	38.60	2612163
## 2015-04-28	38.45	38.55	38.15	38.50	3339686
## 2015-04-29	38.50	38.50	38.25	38.25	1857873
## 2015-04-30	38.15	38.35	38.00	38.20	2390758
## 2015-05-04	38.20	38.50	38.10	38.40	2112783
## 2015-05-05	38.50	38.65	38.20	38.25	1630478
## 2015-05-06	38.55	38.65	38.20	38.65	3997692
## 2015-05-07	38.40	38.40	37.60	37.70	3257503
## 2015-05-08	38.00	38.10	37.55	37.55	3816951
## 2015-05-11	38.30	38.30	37.55	37.70	2395677
## 2015-05-12	37.50	37.70	37.30	37.55	3791474
## 2015-05-13	37.70	37.70	37.30	37.45	2871594
## 2015-05-14	37.50	37.70	37.35	37.60	2738625
## 2015-05-15	37.65	37.95	37.35	37.90	1813969
## 2015-05-18	37.75	38.00	37.60	37.80	1758864
## 2015-05-19	37.90	38.50	37.70	38.45	3087354
## 2015-05-20	38.45	38.50	38.15	38.25	2037673
## 2015-05-21	38.25	38.75	38.10	38.65	2790806
## 2015-05-22	38.00	38.10	37.60	37.80	2821489
## 2015-05-26	38.00	38.20	37.60	37.60	3208418
## 2015-05-27	38.00	38.00	37.60	37.80	3366059
## 2015-05-28	38.00	38.00	37.00	37.05	3305802
## 2015-05-29	37.90	37.90	37.00	37.15	4918140
## 2015-06-01	37.30	37.85	37.10	37.35	3957986
## 2015-06-02	37.15	37.50	36.95	37.05	3164934
## 2015-06-03	36.95	37.05	36.65	36.90	15437057
## 2015-06-04	36.90	37.45	36.15	36.65	5160569
## 2015-06-05	36.90	37.20	36.70	36.90	1896214
## 2015-06-08	36.80	36.85	36.10	36.15	2466863
## 2015-06-09	36.30	36.30	35.60	35.85	3286285
## 2015-06-10	36.00	36.75	35.20	35.45	5356858
## 2015-06-11	35.45	36.55	35.45	36.50	4132806
## 2015-06-12	36.70	37.05	36.25	37.00	3234301
## 2015-06-15	36.55	36.90	36.35	36.70	1425470

## 2015-06-16	36.45	37.20	36.20	36.65	2065016
## 2015-06-17	36.35	37.25	36.35	36.85	2516756
## 2015-06-18	37.20	37.40	36.80	37.10	1392109
## 2015-06-19	37.15	37.50	36.85	37.30	3172394
## 2015-06-22	37.30	37.80	37.10	37.65	1708339
## 2015-06-23	37.90	37.90	37.45	37.85	1827478
## 2015-06-24	37.90	37.90	36.80	37.10	3435582
## 2015-06-25	37.20	37.20	36.55	36.55	4804474
## 2015-06-26	36.20	36.55	36.05	36.20	4209152
## 2015-06-29	35.90	36.00	35.50	35.65	3612790
## 2015-06-30	35.80	36.25	35.50	36.10	3976760
## 2015-07-02	35.90	35.90	35.50	35.60	4745649
## 2015-07-03	35.85	35.85	34.75	35.05	4337041
## 2015-07-06	35.10	35.35	33.70	34.15	5469739
## 2015-07-07	34.15	35.00	34.05	34.70	4889376
## 2015-07-08	34.00	34.40	33.10	34.05	9291962
## 2015-07-09	34.50	35.30	33.70	34.80	6815367
## 2015-07-10	34.80	35.15	34.20	34.55	7190844
## 2015-07-13	34.35	35.15	34.20	34.85	4645726
## 2015-07-14	34.65	35.55	34.60	35.50	3640379
## 2015-07-15	35.20	35.35	34.70	34.90	2505377
## 2015-07-16	34.70	35.25	34.55	34.90	1175921
## 2015-07-17	34.95	35.35	34.60	35.35	2615664
## 2015-07-20	35.20	35.50	35.00	35.20	1250467
## 2015-07-21	35.40	35.65	35.05	35.60	2280465
## 2015-07-22	35.40	35.60	35.10	35.20	1007385
## 2015-07-23	35.40	35.50	35.20	35.25	1252031
## 2015-07-24	35.30	35.30	34.80	35.20	914463
## 2015-07-27	35.10	35.20	34.20	34.45	1971845
## 2015-07-28	34.25	35.55	34.25	34.65	2138533
## 2015-07-29	34.70	35.05	34.65	34.85	1362923
## 2015-07-30	35.10	35.40	34.45	34.45	1842516
## 2015-07-31	34.90	34.90	34.40	34.55	1915625
## 2015-08-03	34.55	34.90	34.20	34.60	2091736
## 2015-08-04	34.85	34.85	34.35	34.75	1393444
## 2015-08-05	34.50	34.80	34.50	34.65	1539681
## 2015-08-06	34.85	35.40	34.55	35.25	3751272
## 2015-08-07	34.90	35.60	34.90	35.40	1995952
## 2015-08-10	35.45	36.50	34.80	36.30	4762525
## 2015-08-11	36.30	36.50	36.00	36.30	3462482
## 2015-08-12	36.00	36.30	35.80	35.95	3567127
## 2015-08-13	36.00	36.20	35.80	36.00	2594073
## 2015-08-14	36.00	36.85	36.00	36.75	4006235
## 2015-08-17	36.80	36.85	36.40	36.60	2097229
## 2015-08-18	36.85	36.90	36.65	36.80	4526156
## 2015-08-19	36.90	36.90	36.05	36.50	4241175
## 2015-08-20	36.10	36.40	35.55	36.05	3946029
## 2015-08-21	35.50	35.90	34.80	35.35	4861658
## 2015-08-24	34.30	34.40	33.50	33.85	5773164
## 2015-08-25	33.50	34.70	33.30	34.30	4934618
## 2015-08-26	34.30	34.50	33.55	33.85	4316968
## 2015-08-27	34.15	35.35	34.15	35.00	3809807
## 2015-08-28	34.80	35.45	34.75	34.90	4989535
## 2015-08-31	35.10	35.30	34.35	34.55	3775844
## 2015-09-01	34.50	35.00	33.75	33.80	3323876
## 2015-09-02	33.65	34.30	33.60	33.85	2963650

## 2015-09-04	33.85	34.15	33.55	33.85	2590876
## 2015-09-07	33.50	34.50	33.50	34.00	2131652
## 2015-09-08	34.20	34.75	33.75	34.60	1929745
## 2015-09-09	35.30	36.40	34.70	36.20	5279807
## 2015-09-10	35.95	35.95	34.70	34.95	2758698
## 2015-09-11	35.35	35.70	35.00	35.05	2125327
## 2015-09-14	35.40	35.40	34.85	35.20	1037776
## 2015-09-15	35.20	35.50	34.90	35.00	1223029
## 2015-09-16	34.95	35.65	34.85	35.50	1658494
## 2015-09-17	35.70	35.70	34.60	34.70	2504322
## 2015-09-18	34.60	35.80	34.60	35.15	2584200
## 2015-09-21	34.90	35.25	34.80	35.15	1208803
## 2015-09-22	35.20	36.00	35.00	35.80	2357588
## 2015-09-23	35.70	35.70	34.35	34.55	4147063
## 2015-09-24	34.45	34.65	33.95	34.15	2724803
## 2015-09-25	34.25	34.50	33.90	34.30	1744487
## 2015-09-29	33.40	33.90	33.10	33.35	3264440
## 2015-09-30	33.35	33.80	33.35	33.60	1936786
## 2015-10-02	33.30	34.15	33.30	34.10	3706307
## 2015-10-05	34.15	34.50	34.15	34.25	1226990
## 2015-10-06	34.55	34.55	33.75	33.75	1565824
## 2015-10-07	34.00	34.35	33.80	34.30	2483787
## 2015-10-08	33.90	34.35	33.65	34.10	2515636
## 2015-10-09	34.30	34.40	33.75	33.75	2600011
## 2015-10-12	33.75	34.15	33.75	33.95	3074616
## 2015-10-13	33.95	34.60	33.85	34.50	18574736
## 2015-10-14	34.00	34.35	33.85	33.90	4239431
## 2015-10-15	33.90	34.45	33.85	34.45	4066889
## 2015-10-16	34.65	34.70	34.30	34.60	2788187
## 2015-10-19	34.50	34.95	34.30	34.70	1908032
## 2015-10-20	34.70	35.00	34.45	34.70	2202670
## 2015-10-22	34.45	35.10	34.45	34.80	2286767
## 2015-10-23	35.30	35.50	34.85	35.45	3406237
## 2015-10-26	35.20	35.45	35.05	35.15	2318707
## 2015-10-27	35.20	35.60	35.15	35.35	2319768
## 2015-10-28	35.70	35.85	35.50	35.75	2031025
## 2015-10-29	35.85	35.90	35.40	35.65	2248220
## 2015-10-30	35.80	35.80	35.05	35.20	1779547
## 2015-11-02	35.25	35.30	34.75	35.00	2715074
## 2015-11-03	35.15	35.60	34.90	35.55	2891888
## 2015-11-04	35.85	36.75	35.60	35.90	4067382
## 2015-11-05	35.50	36.20	35.45	35.55	1776739
## 2015-11-06	35.25	35.70	35.20	35.65	2153836
## 2015-11-09	35.55	35.90	35.30	35.75	2029337
## 2015-11-10	35.70	35.75	34.65	34.80	6762142
## 2015-11-11	34.80	35.30	34.55	35.20	4617647
## 2015-11-12	35.30	36.00	35.10	35.90	3702247
## 2015-11-13	35.60	35.80	35.30	35.40	4077200
## 2015-11-16	35.25	35.75	35.10	35.45	2477707
## 2015-11-17	35.55	36.25	35.20	36.10	3760218
## 2015-11-18	36.10	36.25	36.00	36.05	3114397
## 2015-11-19	36.25	36.90	36.25	36.85	3785606
## 2015-11-20	36.50	37.00	36.35	37.00	2260045
## 2015-11-23	37.00	37.15	36.65	37.10	1271018
## 2015-11-24	37.10	37.10	36.30	36.75	1002608
## 2015-11-25	36.25	37.00	36.15	36.75	2298694

## 2015-11-26	36.70	37.00	36.35	36.45	1498926
## 2015-11-27	36.75	36.75	35.90	36.00	2090707
## 2015-11-30	36.00	36.00	36.00	36.00	0
## 2015-12-01	35.00	37.05	34.90	36.65	12102584
## 2015-12-02	36.15	36.80	36.15	36.65	3214375
## 2015-12-03	36.50	36.75	36.25	36.70	3345189
## 2015-12-04	36.45	36.60	36.20	36.45	3624793
## 2015-12-07	36.45	36.70	36.30	36.35	2776049
## 2015-12-08	36.30	36.50	35.95	36.15	4743872
## 2015-12-09	36.25	36.35	35.95	36.25	2612722
## 2015-12-10	36.35	36.45	36.00	36.30	1898673
## 2015-12-11	36.85	36.85	36.10	36.40	3266307
## 2015-12-14	36.00	36.30	35.85	36.20	3147077
## 2015-12-15	36.20	36.35	36.15	36.35	2888424
## 2015-12-16	36.60	36.65	36.35	36.60	2430406
## 2015-12-17	36.95	37.15	36.65	37.10	2315372
## 2015-12-18	36.65	37.20	36.60	36.70	2846791
## 2015-12-21	36.60	36.95	36.15	36.80	1233585
## 2015-12-22	36.95	37.30	36.75	37.15	2020899
## 2015-12-23	37.30	37.50	37.15	37.50	1586299
## 2015-12-24	37.60	37.60	37.10	37.15	959921
## 2015-12-28	37.15	37.45	37.15	37.45	708648
## 2015-12-29	37.45	38.35	37.15	38.25	3773252
## 2015-12-30	38.40	38.50	37.80	38.40	2329702
## 2015-12-31	38.20	38.45	38.00	38.40	1678537
## 2016-01-04	38.30	38.30	37.55	37.60	4696893
## 2016-01-05	37.00	38.00	36.80	38.00	3253278
## 2016-01-06	38.00	38.00	37.25	37.30	2526587
## 2016-01-07	37.25	37.25	36.15	36.25	3959784
## 2016-01-08	36.90	36.90	36.40	36.65	3639516
## 2016-01-11	36.50	36.65	36.05	36.25	6605857
## 2016-01-12	36.90	36.90	36.05	36.10	2764213
## 2016-01-13	37.35	37.35	36.45	36.70	2904629
## 2016-01-14	36.75	36.75	36.20	36.45	4513225
## 2016-01-15	36.55	37.05	36.20	36.60	4593302
## 2016-01-18	36.40	37.00	36.25	36.65	3390967
## 2016-01-19	37.00	37.00	36.00	36.40	5443540
## 2016-01-20	36.10	36.45	35.30	35.50	9536484
## 2016-01-21	36.10	36.20	34.20	34.40	15834093
## 2016-01-22	35.20	35.20	34.40	34.60	10116617
## 2016-01-25	34.80	35.10	34.70	35.00	3983275
## 2016-01-26	34.95	35.00	34.65	34.85	3388196
## 2016-01-27	35.20	35.25	34.85	35.05	3436718
## 2016-01-28	35.05	35.25	34.60	34.75	4021461
## 2016-01-29	34.75	35.20	34.70	35.10	6231084
## 2016-02-01	35.10	35.10	35.10	35.10	0
## 2016-02-02	34.55	35.50	34.45	35.40	6078082
## 2016-02-03	35.35	35.40	35.05	35.15	3897527
## 2016-02-04	35.05	35.90	35.05	35.55	4902128
## 2016-02-05	35.90	35.95	35.25	35.45	3860711
## 2016-02-11	34.80	35.10	34.50	35.00	4056497
## 2016-02-12	34.85	35.75	34.55	35.55	5193947
## 2016-02-15	35.90	35.90	35.50	35.55	2393046
## 2016-02-16	35.85	36.00	35.40	36.00	2614846
## 2016-02-17	36.00	36.15	35.35	35.50	2901002
## 2016-02-18	35.80	36.25	35.65	36.20	3099476

## 2016-02-19	36.50	36.50	35.70	36.00	1544356
## 2016-02-22	36.10	36.70	36.00	36.65	1879655
## 2016-02-23	36.85	36.90	36.40	36.45	2042348
## 2016-02-24	36.20	37.00	36.20	37.00	2632466
## 2016-02-25	37.15	37.15	36.10	36.50	3155133
## 2016-02-26	36.80	37.35	36.65	37.15	3279138
## 2016-02-29	37.10	37.10	35.90	35.95	5279946
## 2016-03-01	36.15	36.85	36.00	36.55	2694112
## 2016-03-02	36.55	37.05	36.55	36.95	2695864
## 2016-03-03	36.65	37.30	36.60	36.65	3061528
## 2016-03-04	36.60	36.75	36.05	36.35	4894868
## 2016-03-07	36.25	36.50	35.95	36.00	4031698
## 2016-03-08	36.20	36.25	35.95	36.00	1850119
## 2016-03-09	36.20	36.55	35.90	36.25	2026043
## 2016-03-10	36.50	36.55	36.05	36.15	2422578
## 2016-03-11	36.40	36.55	36.10	36.35	1955849
## 2016-03-14	37.20	37.75	37.05	37.35	9837645
## 2016-03-15	37.20	37.70	37.10	37.65	3703636
## 2016-03-16	37.65	38.40	37.65	38.35	4029629
## 2016-03-17	38.50	38.85	37.85	37.95	6321330
## 2016-03-18	38.20	38.30	37.80	37.90	3117007
## 2016-03-21	37.90	38.00	37.55	37.85	2306770
## 2016-03-22	37.90	38.10	37.75	38.00	2983960
## 2016-03-23	38.00	38.10	37.15	37.30	9065815
## 2016-03-24	37.05	37.65	37.05	37.55	4285793
## 2016-03-29	37.80	37.80	37.15	37.40	1690547
## 2016-03-30	37.50	38.35	37.35	38.25	3199226
## 2016-03-31	38.20	38.50	38.00	38.40	4058669
## 2016-04-01	38.40	38.40	37.50	37.95	1962471
## 2016-04-05	37.50	37.90	37.50	37.70	2652278
## 2016-04-06	37.65	37.90	37.55	37.70	2869254
## 2016-04-07	38.00	38.40	37.80	38.40	2754389
## 2016-04-08	38.20	38.70	37.90	38.65	3497886
## 2016-04-11	38.25	38.45	37.90	37.95	4948361
## 2016-04-12	38.05	38.20	37.70	37.75	3549975
## 2016-04-13	37.85	38.40	37.85	38.35	3856967
## 2016-04-14	38.50	38.65	38.05	38.60	4932587
## 2016-04-15	38.50	38.65	38.20	38.55	2038692
## 2016-04-18	38.45	38.60	38.35	38.45	1900979
## 2016-04-19	38.55	38.80	38.35	38.75	2846406
## 2016-04-20	38.50	38.75	38.40	38.50	2205904
## 2016-04-21	38.65	38.75	38.30	38.70	3432438
## 2016-04-22	38.65	38.75	38.40	38.45	3181188
## 2016-04-25	38.20	38.75	37.95	38.70	2436609
## 2016-04-26	38.70	38.75	38.15	38.45	2442160
## 2016-04-27	38.60	38.60	38.15	38.30	2149755
## 2016-04-28	38.50	39.15	38.35	38.80	3352785
## 2016-04-29	38.70	38.70	38.20	38.40	3109785
## 2016-05-03	38.50	38.50	38.15	38.20	2805358
## 2016-05-04	38.15	38.40	38.15	38.20	3011303
## 2016-05-05	38.30	38.60	38.25	38.50	2703897
## 2016-05-06	38.50	38.65	38.30	38.55	3370968
## 2016-05-09	38.60	38.60	38.35	38.50	3129400
## 2016-05-10	38.60	38.60	38.35	38.40	3733123
## 2016-05-11	38.40	38.55	38.20	38.40	3688313
## 2016-05-12	38.30	38.45	38.15	38.45	3044300

## 2016-05-13	38.30	38.40	38.00	38.25	4232362
## 2016-05-16	38.10	38.30	38.00	38.30	2785397
## 2016-05-17	38.30	39.00	38.15	38.85	5871137
## 2016-05-18	38.50	38.70	38.35	38.65	5674634
## 2016-05-19	38.55	39.25	38.50	39.10	6622588
## 2016-05-20	35.95	36.45	35.55	36.10	5877731
## 2016-05-23	36.60	36.70	35.85	35.85	3170335
## 2016-05-24	36.00	36.00	35.55	35.85	2952910
## 2016-05-25	36.05	36.45	35.95	36.35	4931264
## 2016-05-26	36.45	36.50	36.05	36.15	2939435
## 2016-05-27	36.10	36.50	35.95	36.30	2958845
## 2016-05-30	36.35	36.40	36.05	36.35	2010664
## 2016-05-31	36.45	37.25	36.25	36.85	6487865
## 2016-06-01	37.15	37.15	36.80	37.05	3085644
## 2016-06-02	37.35	37.35	36.95	37.25	2384232
## 2016-06-03	37.55	37.55	37.05	37.25	3664730
## 2016-06-06	37.50	37.50	37.20	37.40	1648346
## 2016-06-07	37.80	37.90	37.45	37.80	3237176
## 2016-06-08	37.65	38.30	37.50	37.95	3156372
## 2016-06-10	37.80	38.40	37.80	38.00	4007287
## 2016-06-13	37.25	37.80	37.20	37.60	3237608
## 2016-06-14	37.40	37.60	36.85	37.00	4499719
## 2016-06-15	36.75	37.60	36.55	37.25	3985302
## 2016-06-16	37.20	37.25	36.70	36.85	3186136
## 2016-06-17	37.10	37.35	36.80	37.20	4294720
## 2016-06-20	37.45	37.50	37.00	37.35	1918323
## 2016-06-21	37.10	37.50	37.10	37.45	2484461
## 2016-06-22	37.20	37.80	37.10	37.50	4123941
## 2016-06-23	37.85	37.85	37.45	37.60	1945702
## 2016-06-24	37.45	37.90	36.45	37.45	6037800
## 2016-06-27	37.30	38.25	37.10	38.05	3921769
## 2016-06-28	37.60	38.30	37.60	38.10	3137329
## 2016-06-29	38.30	38.85	38.10	38.65	3301628
## 2016-06-30	39.00	39.50	38.90	39.20	6981837
## 2016-07-04	39.00	39.75	39.00	39.50	3155849
## 2016-07-05	39.45	39.60	39.20	39.50	2937382
## 2016-07-06	39.40	39.45	38.75	39.35	2801049
## 2016-07-07	39.40	39.75	39.10	39.65	3075128
## 2016-07-08	39.55	39.65	39.20	39.50	2833941
## 2016-07-11	39.90	40.45	39.50	40.40	4185991
## 2016-07-12	40.45	41.00	40.15	40.90	5194920
## 2016-07-13	41.15	41.50	40.90	41.40	5024203
## 2016-07-14	41.45	42.25	41.20	42.05	5043037
## 2016-07-15	42.00	42.15	41.55	42.10	4692437
## 2016-07-18	42.10	42.10	41.75	41.95	3193136
## 2016-07-19	41.95	42.30	41.70	42.25	2730194
## 2016-07-20	42.25	43.25	42.20	43.05	4759059
## 2016-07-21	43.00	43.30	42.65	42.75	5056328
## 2016-07-22	42.65	42.90	42.35	42.75	3444356
## 2016-07-25	42.95	43.00	42.50	42.70	2448921
## 2016-07-26	42.70	43.50	42.65	43.40	4575546
## 2016-07-27	43.00	43.50	42.85	43.45	3311348
## 2016-07-28	43.30	44.00	43.20	44.00	3905203
## 2016-07-29	44.00	44.50	43.45	43.90	4646303
## 2016-08-01	43.90	44.00	43.30	43.65	4174662
## 2016-08-02	43.65	43.65	43.65	43.65	0



## 2016-08-03	42.70	43.35	42.30	42.50	7054840
## 2016-08-04	42.90	43.40	42.60	43.20	3014811
## 2016-08-05	43.30	43.70	43.20	43.65	2790141
## 2016-08-08	43.80	44.15	43.65	43.80	3741802
## 2016-08-09	43.90	44.00	43.50	43.50	2025989
## 2016-08-10	42.85	42.95	41.70	41.90	12108679
## 2016-08-11	41.70	42.75	41.70	42.05	5501485
## 2016-08-12	42.10	42.40	41.85	42.00	4170501
## 2016-08-15	41.90	42.30	41.90	42.20	4557296
## 2016-08-16	42.30	42.70	42.05	42.70	3183321
## 2016-08-17	42.70	42.90	42.50	42.60	3106402
## 2016-08-18	43.50	43.50	42.70	43.10	4099915
## 2016-08-19	42.95	43.00	42.10	42.50	4144968
## 2016-08-22	42.25	42.40	41.70	42.00	3299091
## 2016-08-23	42.05	42.20	41.85	42.10	3096342
## 2016-08-24	42.10	42.60	42.10	42.15	2612425
## 2016-08-25	42.00	42.55	42.00	42.35	2267320
## 2016-08-26	42.40	42.65	42.35	42.45	1900289
## 2016-08-29	42.40	42.45	41.70	41.90	2878566
## 2016-08-30	42.20	42.35	41.90	41.95	2038363
## 2016-08-31	41.95	42.40	41.95	42.40	2840548
## 2016-09-01	42.35	42.35	42.00	42.35	1981035
## 2016-09-02	42.50	42.70	42.25	42.65	2796522
## 2016-09-05	42.90	43.00	42.65	42.80	2374383
## 2016-09-06	42.85	42.90	42.50	42.50	2148705
## 2016-09-07	42.50	42.80	42.45	42.75	2082883
## 2016-09-08	42.85	43.35	42.80	43.15	3574899
## 2016-09-09	43.40	43.85	43.15	43.85	5254598
## 2016-09-12	43.10	43.45	42.60	42.65	3956231
## 2016-09-13	42.75	43.10	42.05	42.25	4855035
## 2016-09-14	42.20	42.50	42.00	42.05	2922932
## 2016-09-15	42.05	42.25	41.90	42.10	2983657
## 2016-09-19	42.40	42.45	42.20	42.35	2378021
## 2016-09-20	42.35	42.50	42.00	42.30	2353483
## 2016-09-21	42.45	42.45	42.10	42.25	5081641
## 2016-09-22	42.45	42.60	42.10	42.30	4040902
## 2016-09-23	42.30	42.40	42.00	42.00	3786112
## 2016-09-26	42.00	42.10	41.80	41.90	3349504
## 2016-09-27	42.15	42.60	41.85	42.60	2583072
## 2016-09-28	42.55	42.60	42.05	42.50	2803208
## 2016-09-29	42.60	43.25	42.60	43.10	4391322
## 2016-09-30	42.60	42.80	42.30	42.70	3568007
## 2016-10-03	43.25	43.25	42.70	42.80	1493899
## 2016-10-04	43.65	43.65	42.70	42.85	1703173
## 2016-10-05	42.80	43.00	42.70	42.95	2252773
## 2016-10-06	42.90	42.90	42.30	42.30	4820867
## 2016-10-07	42.70	42.70	42.30	42.70	2087226
## 2016-10-11	43.20	43.20	42.00	42.10	4257749
## 2016-10-12	42.00	42.80	42.00	42.80	2914017
## 2016-10-13	42.80	42.90	42.40	42.50	3152807
## 2016-10-14	42.55	43.00	42.55	43.00	2597391
## 2016-10-17	43.00	43.00	42.40	43.00	2451890
## 2016-10-18	43.10	43.15	42.50	42.85	3489690
## 2016-10-19	43.15	43.20	42.90	43.20	2939283
## 2016-10-20	43.40	43.40	43.00	43.35	2227965
## 2016-10-21	43.35	43.35	43.35	43.35	0

## 2016-10-24	43.50	43.80	43.05	43.80	4511944
## 2016-10-25	43.75	43.80	43.55	43.70	1518684
## 2016-10-26	43.65	43.75	43.25	43.25	1389856
## 2016-10-27	43.25	43.50	42.65	42.85	2946608
## 2016-10-28	42.70	43.10	42.70	42.80	1756171
## 2016-10-31	42.60	43.20	42.60	42.95	2827948
## 2016-11-01	43.70	43.70	43.20	43.20	3910178
## 2016-11-02	43.30	43.30	42.75	42.90	1967163
## 2016-11-03	43.00	43.00	42.60	42.60	2127298
## 2016-11-04	42.50	42.95	42.45	42.55	1557658
## 2016-11-07	42.30	42.65	42.10	42.40	3554802
## 2016-11-08	42.75	42.80	42.45	42.60	1986846
## 2016-11-09	42.90	42.90	41.60	42.10	6090263
## 2016-11-10	42.50	42.70	42.30	42.35	3414061
## 2016-11-11	42.40	42.40	41.70	41.90	4755184
## 2016-11-14	41.80	42.00	41.05	41.10	5033819
## 2016-11-15	41.20	41.20	40.20	40.65	7726542
## 2016-11-16	40.40	40.65	39.85	39.85	8144894
## 2016-11-17	39.85	39.90	38.85	39.25	12071753
## 2016-11-18	39.05	39.25	38.60	39.15	5826271
## 2016-11-21	39.00	39.05	38.60	38.65	6387346
## 2016-11-22	38.80	39.25	38.65	39.10	6555761
## 2016-11-23	39.10	39.20	38.80	38.90	4412110
## 2016-11-24	38.85	38.90	38.60	38.65	2938922
## 2016-11-25	38.85	38.90	38.65	38.70	3317660
## 2016-11-28	39.00	39.20	38.80	38.85	4034567
## 2016-11-29	38.80	39.15	38.75	38.80	6324020
## 2016-11-30	39.05	39.05	38.75	38.80	4500862
## 2016-12-01	38.75	39.05	38.10	38.15	20126230
## 2016-12-02	38.00	38.40	37.80	37.85	7303552
## 2016-12-05	38.15	38.20	37.80	38.05	4422957
## 2016-12-06	38.50	38.75	38.35	38.60	4316468
## 2016-12-07	38.60	38.70	38.25	38.50	3990508
## 2016-12-08	38.80	38.85	38.50	38.60	10091614
## 2016-12-09	38.70	39.10	38.55	38.90	5728981
## 2016-12-12	39.00	39.00	38.05	38.10	5258850
## 2016-12-13	38.10	38.70	38.10	38.70	3661329
## 2016-12-14	38.85	38.85	38.50	38.65	2116251
## 2016-12-15	38.00	38.45	37.80	38.15	6925353
## 2016-12-16	38.00	38.10	37.60	37.90	5980643
## 2016-12-19	37.70	37.90	37.20	37.50	4715594
## 2016-12-20	37.50	37.50	37.30	37.50	2672715
## 2016-12-21	37.50	37.75	37.50	37.55	2749146
## 2016-12-22	37.50	37.65	37.20	37.40	2120080
## 2016-12-23	37.20	37.45	37.20	37.30	1864653
## 2016-12-28	37.45	37.60	37.20	37.40	2515146
## 2016-12-29	37.25	37.60	37.20	37.50	2612793
## 2016-12-30	37.50	37.95	37.50	37.70	2950970
## 2017-01-03	38.00	38.35	37.80	38.35	2164338
## 2017-01-04	38.45	38.50	38.15	38.30	1902512
## 2017-01-05	38.50	38.50	38.30	38.50	2161388
## 2017-01-06	38.35	38.55	38.25	38.25	2278527
## 2017-01-09	38.20	38.50	38.15	38.35	1667052
## 2017-01-10	38.20	38.85	38.20	38.80	2961635
## 2017-01-11	38.70	38.90	38.60	38.80	3424504
## 2017-01-12	38.65	38.75	38.35	38.40	2980738

## 2017-01-13	38.55	38.80	38.45	38.80	1774138
## 2017-01-16	38.70	38.90	38.45	38.65	1896392
## 2017-01-17	38.75	38.80	38.45	38.50	2039369
## 2017-01-18	38.65	38.90	38.60	38.75	2856111
## 2017-01-19	38.75	38.90	38.60	38.80	1827540
## 2017-01-20	38.55	38.75	38.50	38.65	1843169
## 2017-01-23	38.65	38.80	38.50	38.75	1574187
## 2017-01-24	38.80	39.00	38.50	38.95	2404080
## 2017-01-25	39.00	39.10	38.90	39.10	1991240
## 2017-01-26	39.25	39.45	39.00	39.30	3458212
## 2017-01-27	39.35	39.60	39.30	39.60	1550242
## 2017-02-01	39.75	39.85	39.40	39.85	3464331
## 2017-02-02	39.55	39.85	39.55	39.70	2583161
## 2017-02-03	39.80	39.90	39.40	39.80	1938521
## 2017-02-06	39.95	40.10	39.70	40.10	3249873
## 2017-02-07	40.00	40.20	39.90	40.20	2585091
## 2017-02-08	40.25	40.25	39.80	40.15	3343422
## 2017-02-09	40.10	40.20	40.00	40.00	3148685
## 2017-02-10	40.25	40.25	40.00	40.25	5501079
## 2017-02-13	40.00	40.25	40.00	40.25	3566505
## 2017-02-14	40.35	40.40	40.20	40.25	2202921
## 2017-02-15	40.35	40.50	40.20	40.50	3004506
## 2017-02-16	40.40	40.50	40.00	40.00	3848010
## 2017-02-17	40.20	40.45	40.10	40.45	2478872
## 2017-02-20	40.70	41.00	40.50	40.90	3668862
## 2017-02-21	40.90	41.00	40.60	40.85	2511385
## 2017-02-22	41.00	41.20	40.60	41.20	4403982
## 2017-02-23	41.40	41.40	40.65	41.35	2368081
## 2017-02-24	41.10	41.40	41.10	41.35	2645667
## 2017-02-27	41.20	41.40	41.10	41.40	1890652
## 2017-02-28	41.30	41.50	41.05	41.05	2583547
## 2017-03-01	41.50	42.00	41.30	41.90	4521696
## 2017-03-02	42.00	42.05	41.30	41.60	4480924
## 2017-03-03	41.10	41.60	41.05	41.05	4181898
## 2017-03-06	41.10	41.80	41.05	41.70	3223029
## 2017-03-07	41.70	41.70	41.20	41.45	2766714
## 2017-03-08	41.90	42.50	41.50	41.95	7744722
## 2017-03-09	41.90	42.10	41.75	41.85	3501731
## 2017-03-10	41.80	41.95	41.65	41.75	3200066
## 2017-03-13	41.90	42.00	41.50	41.65	5497444
## 2017-03-14	41.50	41.95	41.50	41.85	2001917
## 2017-03-15	41.70	42.00	41.60	41.90	2365129
## 2017-03-16	42.00	42.40	41.95	42.20	5190516
## 2017-03-17	42.45	42.80	42.25	42.65	5620478
## 2017-03-20	42.70	42.95	42.65	42.95	2581910
## 2017-03-21	42.85	43.50	42.80	43.30	4067864
## 2017-03-22	43.10	43.10	42.60	42.85	4389135
## 2017-03-23	43.15	43.15	42.75	42.75	2881066
## 2017-03-24	42.75	42.95	42.50	42.95	2144388
## 2017-03-27	42.85	43.10	42.85	42.95	1895656
## 2017-03-28	42.95	43.40	42.90	43.35	3743268
## 2017-03-29	43.40	43.65	43.15	43.55	3896610
## 2017-03-30	43.50	44.00	43.45	44.00	4516128
## 2017-03-31	44.00	44.10	43.50	43.65	5032599
## 2017-04-03	43.75	43.85	43.05	43.85	3257250
## 2017-04-05	43.90	44.00	43.60	44.00	3799899

## 2017-04-06	43.60	44.00	43.60	43.75	1922231
## 2017-04-07	43.55	43.85	43.30	43.75	3987091
## 2017-04-10	43.80	44.45	43.70	44.45	4800673
## 2017-04-11	44.50	44.70	44.05	44.45	4653246
## 2017-04-12	44.00	44.80	44.00	44.80	3203917
## 2017-04-13	44.70	44.80	44.45	44.65	1860196
## 2017-04-18	44.70	44.70	44.20	44.35	3822911
## 2017-04-19	44.10	44.15	43.65	44.00	5074265
## 2017-04-20	43.70	44.20	43.70	44.20	2548590
## 2017-04-21	44.20	44.45	44.20	44.30	2384571
## 2017-04-24	44.50	44.55	43.90	44.40	2566526
## 2017-04-25	44.50	44.80	44.40	44.75	1886674
## 2017-04-26	44.75	44.90	44.55	44.90	3383683
## 2017-04-27	44.85	44.90	44.60	44.90	2145594
## 2017-04-28	44.85	44.90	44.70	44.80	2169987
## 2017-05-02	44.90	45.00	44.80	45.00	2977256
## 2017-05-04	45.05	45.55	44.95	45.45	3660582
## 2017-05-05	45.45	45.50	45.05	45.10	4099161
## 2017-05-08	45.35	45.90	45.10	45.60	4216477
## 2017-05-09	45.75	46.50	45.70	46.40	6118640
## 2017-05-10	46.50	46.95	46.50	46.70	6533032
## 2017-05-11	46.70	46.80	46.35	46.55	6169440
## 2017-05-12	46.55	46.70	46.50	46.65	3810870
## 2017-05-15	46.85	48.10	46.65	47.90	7325433
## 2017-05-16	47.90	48.10	47.70	48.00	8008564
## 2017-05-17	48.05	49.50	48.00	49.10	12512525
## 2017-05-18	48.65	50.00	48.60	49.65	16072934
## 2017-05-19	45.75	46.15	44.60	44.85	20290919
## 2017-05-22	45.15	45.15	43.60	43.90	15244374
## 2017-05-23	44.00	44.25	43.90	44.10	9157196
## 2017-05-24	44.10	44.15	43.35	43.50	8551563
## 2017-05-25	43.50	43.90	43.50	43.60	5441368
## 2017-05-26	43.00	43.55	42.70	43.15	8707219
## 2017-05-29	43.15	44.80	43.15	44.50	11970129
## 2017-05-31	44.80	45.20	44.35	44.40	11204824
## 2017-06-01	44.60	44.70	44.25	44.60	5374315
## 2017-06-02	44.35	44.75	44.30	44.30	5790240
## 2017-06-05	44.20	44.25	43.85	44.00	4633685
## 2017-06-06	43.95	44.30	43.90	44.05	4305823
## 2017-06-07	44.05	44.45	43.95	44.10	10876615
## 2017-06-08	44.30	44.45	44.10	44.15	3797975
## 2017-06-09	44.40	44.40	43.90	44.10	4514803
## 2017-06-12	43.85	44.10	43.70	43.70	3503497
## 2017-06-13	43.75	43.85	43.50	43.80	4200534
## 2017-06-14	43.95	43.95	43.65	43.75	2272754
## 2017-06-15	43.75	43.75	43.50	43.65	2886052
## 2017-06-16	43.75	43.90	43.65	43.85	2495594
## 2017-06-19	44.00	44.20	43.90	43.90	3076073
## 2017-06-20	43.90	44.00	43.75	43.85	2595626
## 2017-06-21	43.85	43.95	43.60	43.75	2956863
## 2017-06-22	43.60	43.95	43.55	43.55	3313175
## 2017-06-23	43.80	43.85	43.55	43.75	1691571
## 2017-06-26	44.00	44.00	43.65	43.85	1692769
## 2017-06-27	43.90	44.30	43.90	44.15	2417741
## 2017-06-28	44.15	44.25	43.80	44.15	2361528
## 2017-06-29	44.30	44.30	43.95	44.20	2793088

## 2017-06-30	44.10	44.10	43.65	43.95	2960890
## 2017-07-03	43.85	44.15	43.65	43.65	3565318
## 2017-07-04	43.60	43.85	43.05	43.25	4485717
## 2017-07-05	43.20	43.75	43.20	43.50	2462899
## 2017-07-06	43.65	43.90	43.50	43.80	2395005
## 2017-07-07	43.60	43.75	43.50	43.65	2026441
## 2017-07-10	43.85	44.10	43.65	44.10	2901298
## 2017-07-11	44.25	44.65	44.10	44.65	5081153
## 2017-07-12	44.95	45.00	44.35	44.70	3047394
## 2017-07-13	44.75	44.90	44.40	44.50	3919498
## 2017-07-14	44.65	44.65	44.50	44.65	2662772
## 2017-07-17	44.80	44.85	44.50	44.55	4072498
## 2017-07-18	44.65	44.65	44.50	44.60	2002890
## 2017-07-19	44.65	44.65	44.15	44.30	4690933
## 2017-07-20	44.50	44.50	44.05	44.10	3716992
## 2017-07-21	44.10	44.65	44.05	44.45	2786623
## 2017-07-24	44.50	44.55	44.35	44.50	2850032
## 2017-07-25	44.55	44.60	44.30	44.40	2228430
## 2017-07-26	44.40	44.55	44.30	44.50	4410052
## 2017-07-27	44.50	45.30	44.45	45.05	6015645
## 2017-07-28	44.90	45.15	44.65	45.10	4559330
## 2017-07-31	45.20	45.20	44.90	45.15	5463439
## 2017-08-01	44.95	45.20	44.95	45.05	5240010
## 2017-08-02	45.10	45.55	45.00	45.55	4840408
## 2017-08-03	45.70	45.90	45.50	45.50	3934689
## 2017-08-04	45.55	46.25	45.50	46.15	4828331
## 2017-08-07	46.15	46.40	45.70	46.15	3832362
## 2017-08-08	46.15	46.40	45.85	46.30	2937660
## 2017-08-09	46.00	46.25	45.80	46.15	3501006
## 2017-08-10	46.05	46.55	45.75	46.40	5109541
## 2017-08-11	45.50	45.60	44.40	44.60	15398818
## 2017-08-14	44.85	45.20	44.60	45.05	5613728
## 2017-08-15	45.30	45.50	44.90	45.10	5189469
## 2017-08-16	45.10	45.25	44.90	45.05	4429172
## 2017-08-17	45.10	45.80	45.05	45.65	5897746
## 2017-08-18	45.50	45.60	45.20	45.30	4164051
## 2017-08-21	45.20	45.60	45.20	45.35	3314090
## 2017-08-22	45.55	45.55	45.30	45.40	3291213
## 2017-08-23	45.40	45.40	45.40	45.40	0
## 2017-08-24	45.00	45.50	45.00	45.35	3378425
## 2017-08-25	45.15	45.40	45.05	45.35	3308366
## 2017-08-28	45.60	45.60	45.10	45.40	2310057
## 2017-08-29	45.75	45.75	45.30	45.30	1658746
## 2017-08-30	45.50	45.50	45.20	45.20	3101767
## 2017-08-31	45.35	45.80	45.20	45.75	4758357
## 2017-09-01	45.75	46.25	45.50	46.25	11968752
## 2017-09-04	46.15	46.20	45.75	46.00	4895987
## 2017-09-05	46.10	46.10	45.50	45.75	2688287
## 2017-09-06	45.70	45.90	45.35	45.85	2968523
## 2017-09-07	46.00	46.00	45.60	45.85	2393214
## 2017-09-08	45.50	46.00	45.45	46.00	2792793
## 2017-09-11	46.00	46.50	45.90	46.50	5344933
## 2017-09-12	46.50	46.80	46.10	46.45	2507804
## 2017-09-13	46.50	46.50	46.00	46.10	2302504
## 2017-09-14	45.90	46.10	45.70	45.70	2735889
## 2017-09-15	45.65	46.05	45.55	46.05	2767866

## 2017-09-18	46.10	46.25	45.95	46.05	2231784
## 2017-09-19	46.50	46.50	45.90	45.95	1806941
## 2017-09-20	46.00	46.00	45.60	45.80	3204284
## 2017-09-21	45.70	45.85	45.60	45.60	2550642
## 2017-09-22	45.50	45.55	45.30	45.35	2862873
## 2017-09-25	45.30	45.60	45.25	45.40	2294651
## 2017-09-26	45.60	45.85	45.45	45.80	2743590
## 2017-09-27	45.80	45.80	45.50	45.65	1688104
## 2017-09-28	45.50	45.80	45.50	45.65	2175121
## 2017-09-29	45.80	45.80	45.20	45.60	2392970
## 2017-10-03	45.70	45.70	45.30	45.45	3332711
## 2017-10-04	45.65	46.05	45.40	45.45	2582973
## 2017-10-06	45.80	45.80	45.10	45.20	4567818
## 2017-10-09	45.05	45.40	45.05	45.15	2645859
## 2017-10-10	45.10	45.30	45.10	45.10	3631882
## 2017-10-11	45.55	45.65	45.00	45.00	3842281
## 2017-10-12	45.05	45.20	45.00	45.00	3871264
## 2017-10-13	44.85	45.15	44.80	45.00	3755851
## 2017-10-16	45.00	45.50	45.00	45.45	2360232
## 2017-10-17	45.50	45.50	45.15	45.30	1654457
## 2017-10-18	45.30	45.35	45.00	45.25	2191838
## 2017-10-19	45.30	45.30	44.80	44.95	2947236
## 2017-10-20	45.00	45.15	44.80	45.05	2519476
## 2017-10-23	45.10	45.10	44.65	45.00	1641369
## 2017-10-24	45.00	45.25	44.85	44.95	1790244
## 2017-10-25	44.95	45.20	44.90	45.10	1414044
## 2017-10-26	44.95	45.20	44.90	45.15	1520040
## 2017-10-27	45.15	45.20	44.90	45.15	1545746
## 2017-10-30	45.20	45.35	45.00	45.30	2783597
## 2017-10-31	45.15	45.30	45.10	45.20	1772007
## 2017-11-01	45.30	45.30	45.00	45.20	2231697
## 2017-11-02	45.10	45.15	44.90	44.95	1839409
## 2017-11-03	45.00	45.05	44.80	44.85	2402166
## 2017-11-06	44.65	45.00	44.25	44.85	2856478
## 2017-11-07	45.00	45.20	44.80	45.20	2211115
## 2017-11-08	45.00	45.20	45.00	45.20	1943430
## 2017-11-09	45.30	45.30	44.90	45.20	2523975
## 2017-11-10	45.20	45.20	44.90	45.00	2417961
## 2017-11-13	45.00	45.20	44.80	45.15	2841910
## 2017-11-14	45.00	45.20	44.85	45.20	2271505
## 2017-11-15	45.15	45.20	44.90	45.15	2240411
## 2017-11-16	45.20	45.25	45.00	45.20	2360937
## 2017-11-17	45.40	45.60	45.15	45.35	5366957
## 2017-11-20	45.50	45.50	45.05	45.10	1674995
## 2017-11-21	45.00	45.15	44.65	45.05	3746582
## 2017-11-22	45.10	45.30	45.00	45.25	2454293
## 2017-11-23	45.30	45.30	45.00	45.25	2042353
## 2017-11-24	45.35	45.70	45.15	45.50	3023759
## 2017-11-27	45.65	45.65	45.40	45.65	2283952
## 2017-11-28	46.00	46.05	45.50	46.00	4022784
## 2017-11-29	46.00	46.05	45.70	45.95	2475385
## 2017-11-30	45.75	46.00	45.65	45.95	4593816
## 2017-12-01	46.00	46.00	45.80	46.00	3721703
## 2017-12-04	46.00	46.40	45.60	46.40	3329525
## 2017-12-05	46.40	46.75	46.15	46.55	4564078
## 2017-12-06	46.40	46.50	45.55	45.70	4478325

## 2017-12-07	45.50	46.00	45.30	46.00	3210492
## 2017-12-08	46.00	46.00	45.35	45.40	2692902
## 2017-12-11	45.45	45.65	45.35	45.60	2632056
## 2017-12-12	45.30	45.55	45.10	45.45	3474226
## 2017-12-13	45.15	45.60	45.15	45.60	3790673
## 2017-12-14	45.70	45.90	45.35	45.40	3010338
## 2017-12-15	45.40	45.60	45.10	45.45	3902232
## 2017-12-18	45.60	45.60	45.10	45.25	1910974
## 2017-12-19	45.25	45.50	45.20	45.30	1591809
## 2017-12-20	45.10	45.70	45.10	45.70	2271167
## 2017-12-21	45.40	45.60	45.25	45.30	2045636
## 2017-12-22	45.45	45.70	45.40	45.60	1713142
## 2017-12-27	45.45	45.75	45.45	45.65	1216894
## 2017-12-28	45.85	45.85	45.55	45.75	1353384
## 2017-12-29	45.55	45.80	45.55	45.80	2016888
## 2018-01-02	45.90	45.95	45.65	45.80	2340906
## 2018-01-03	45.70	46.40	45.65	46.30	4219248
## 2018-01-04	46.35	46.50	46.15	46.45	3003118
## 2018-01-05	46.10	46.40	45.70	46.25	2615619
## 2018-01-08	46.50	46.50	46.10	46.20	1678034
## 2018-01-09	46.25	46.45	46.05	46.35	3798917
## 2018-01-10	46.15	46.35	45.80	46.25	3680651
## 2018-01-11	46.10	46.25	45.85	45.95	2624019
## 2018-01-12	45.90	45.95	45.55	45.70	4224402
## 2018-01-15	45.65	45.70	45.25	45.30	5726476
## 2018-01-16	45.15	45.40	45.10	45.20	4377405
## 2018-01-17	45.20	45.40	45.05	45.20	6165654
## 2018-01-18	45.10	45.30	45.10	45.25	3625083
## 2018-01-19	45.10	45.30	44.85	45.05	5074847
## 2018-01-22	45.10	45.25	44.80	44.90	4935859
## 2018-01-23	44.90	45.00	44.85	44.90	5054783
## 2018-01-24	44.85	44.90	44.70	44.80	4976179
## 2018-01-25	44.85	45.25	44.80	45.00	4423139
## 2018-01-26	45.10	45.20	44.90	45.15	3661375
## 2018-01-29	45.30	45.30	44.90	44.95	4188365
## 2018-01-30	44.95	45.05	44.80	44.90	3442652
## 2018-01-31	45.00	45.00	44.60	44.80	4713717
## 2018-02-01	44.80	44.85	44.50	44.65	3459404
## 2018-02-02	44.45	44.65	44.15	44.20	5576018
## 2018-02-05	44.00	44.00	43.50	43.65	7268929
## 2018-02-06	43.00	43.20	42.45	42.50	9496454
## 2018-02-07	42.50	42.85	41.70	41.70	10061167
## 2018-02-08	41.70	42.15	41.55	41.70	6918222
## 2018-02-09	40.95	41.50	40.55	40.85	17586619
## 2018-02-12	41.00	41.40	40.60	40.80	6250145
## 2018-02-13	40.60	41.05	40.60	40.75	6641120
## 2018-02-14	40.80	40.90	40.60	40.60	9112034
## 2018-02-15	40.80	40.90	40.75	40.90	2734535
## 2018-02-20	40.90	41.45	40.90	41.25	7340524
## 2018-02-21	41.05	41.60	41.00	41.60	4309160
## 2018-02-22	41.05	42.10	41.05	41.60	5994335
## 2018-02-23	42.00	42.15	41.75	41.80	2754917
## 2018-02-26	42.00	42.35	41.70	42.00	4200028
## 2018-02-27	42.35	42.35	41.70	41.70	5148140
## 2018-02-28	41.45	41.95	41.35	41.50	5085865
## 2018-03-01	41.05	41.55	41.05	41.55	3631421

## 2018-03-02	41.20	41.35	41.00	41.15	3688646
## 2018-03-05	41.00	41.30	40.60	40.60	4403447
## 2018-03-06	41.10	41.25	40.90	40.90	3711584
## 2018-03-07	40.65	41.00	40.65	40.75	3545669
## 2018-03-08	40.70	41.15	40.70	41.00	4116797
## 2018-03-09	41.90	43.05	41.85	42.70	13347107
## 2018-03-12	43.30	43.40	43.05	43.20	8563206
## 2018-03-13	43.40	43.95	43.25	43.85	7877697
## 2018-03-14	43.60	44.00	43.40	44.00	4361777
## 2018-03-15	43.95	44.00	43.60	43.95	3228636
## 2018-03-16	43.90	43.90	43.50	43.70	4721168
## 2018-03-19	43.50	43.60	43.05	43.15	3152101
## 2018-03-20	43.25	43.35	42.80	42.95	3133305
## 2018-03-21	43.00	43.35	43.00	43.20	2596244
## 2018-03-22	43.50	43.60	42.55	42.75	3930449
## 2018-03-23	42.00	42.70	41.80	42.50	7461090
## 2018-03-26	42.50	42.95	42.35	42.90	2427341
## 2018-03-27	43.20	43.30	42.95	43.10	2361384
## 2018-03-28	43.40	43.45	42.85	42.85	3521682
## 2018-03-29	43.00	43.10	42.20	42.20	4468213
## 2018-04-03	41.65	42.60	41.65	42.55	3319819
## 2018-04-04	42.50	42.90	41.85	41.85	2671977
## 2018-04-06	41.70	42.50	41.70	42.50	2525002
## 2018-04-09	42.90	43.25	42.45	43.25	3898249
## 2018-04-10	42.70	43.15	42.50	42.80	3433135
## 2018-04-11	42.50	42.95	42.50	42.85	3183138
## 2018-04-12	43.00	43.30	42.95	43.30	2564557
## 2018-04-13	43.40	43.40	43.05	43.15	1327937
## 2018-04-16	43.20	43.30	43.00	43.30	2378554
## 2018-04-17	43.25	43.40	42.90	42.95	2146757
## 2018-04-18	43.00	43.55	42.95	43.55	3563388
## 2018-04-19	43.50	43.60	43.35	43.45	2339515
## 2018-04-20	43.50	43.75	43.35	43.40	2403040
## 2018-04-23	43.10	43.70	43.00	43.30	3071208
## 2018-04-24	43.05	43.60	43.05	43.60	1891054
## 2018-04-25	43.60	43.80	43.35	43.65	2058514
## 2018-04-26	43.80	43.80	43.50	43.65	3077192
## 2018-04-27	43.95	44.00	43.50	43.95	2875119
## 2018-04-30	44.00	44.50	43.90	44.25	4563410
## 2018-05-02	43.80	44.45	43.80	43.85	7972807
## 2018-05-03	43.80	44.30	43.55	44.20	5492630
## 2018-05-04	43.90	44.50	43.80	44.25	4071453
## 2018-05-07	44.50	44.50	43.60	44.15	3193938
## 2018-05-08	44.20	44.80	44.10	44.80	3292479
## 2018-05-09	44.55	45.10	44.45	45.10	3843327
## 2018-05-10	45.20	45.75	44.80	45.70	4845842
## 2018-05-11	45.80	45.80	45.30	45.45	4795265
## 2018-05-14	45.70	45.90	45.40	45.90	3762582
## 2018-05-15	46.00	46.40	45.85	46.35	8088103
## 2018-05-16	46.20	46.35	45.85	46.20	4787345
## 2018-05-17	46.30	46.35	45.80	45.85	4253020
## 2018-05-18	45.35	45.40	44.60	45.10	3965126
## 2018-05-21	45.40	45.90	45.30	45.50	4303987
## 2018-05-23	45.80	45.80	43.85	43.85	9919354
## 2018-05-24	43.90	44.10	43.60	43.80	2997691
## 2018-05-25	43.95	44.40	43.90	44.30	3135432



## 2018-05-28	44.60	44.60	44.25	44.30	2739549
## 2018-05-29	44.60	44.65	43.80	44.10	2861354
## 2018-05-30	43.50	44.25	43.50	44.25	4587801
## 2018-05-31	44.05	44.65	43.85	44.15	7887992
## 2018-06-01	44.55	44.55	43.75	43.75	13799545
## 2018-06-04	44.25	44.25	43.80	44.10	3235394
## 2018-06-05	43.90	44.55	43.90	44.35	2562224
## 2018-06-06	44.35	44.60	44.35	44.60	2298355
## 2018-06-07	44.60	44.90	44.55	44.85	2939882
## 2018-06-08	44.65	44.65	44.35	44.50	1922955
## 2018-06-11	44.45	44.50	44.10	44.30	1732449
## 2018-06-12	44.50	44.65	44.10	44.55	2123733
## 2018-06-13	44.55	44.60	43.90	44.05	2124884
## 2018-06-14	44.00	44.10	43.30	43.60	3670189
## 2018-06-15	43.85	43.85	43.30	43.30	5017673
## 2018-06-19	43.30	43.50	42.00	42.20	7231015
## 2018-06-20	42.00	42.60	42.00	42.20	3976398
## 2018-06-21	42.00	42.70	41.85	42.10	3793418
## 2018-06-22	42.80	43.60	42.35	43.45	6237807
## 2018-06-25	42.75	43.75	42.75	43.25	2980926
## 2018-06-26	43.50	43.50	42.75	43.35	2756737
## 2018-06-27	43.00	43.50	42.90	43.00	2342040
## 2018-06-28	42.70	43.50	42.70	43.50	3743781
## 2018-06-29	43.15	43.50	42.85	43.40	3421993
## 2018-07-03	42.80	43.00	42.10	43.00	3933103
## 2018-07-04	43.00	43.05	42.40	42.60	1699704
## 2018-07-05	42.95	42.95	42.40	42.65	1637630
## 2018-07-06	42.80	42.95	42.20	42.90	2539502
## 2018-07-09	43.20	43.30	42.75	43.00	1664748
## 2018-07-10	43.20	43.45	43.00	43.20	1785072
## 2018-07-11	43.00	43.20	42.55	42.75	2721282
## 2018-07-12	42.50	42.75	42.50	42.55	1788026
## 2018-07-13	43.10	43.10	42.50	42.75	1430948
## 2018-07-16	42.75	42.75	42.20	42.40	2035583
## 2018-07-17	42.40	42.45	42.10	42.35	1582558
## 2018-07-18	42.20	42.50	42.10	42.10	1677596
## 2018-07-19	42.35	42.35	41.85	41.85	2151334
## 2018-07-20	41.85	42.05	41.75	41.90	2390635
## 2018-07-23	42.15	42.40	41.90	42.30	1845301
## 2018-07-24	42.25	42.45	42.05	42.45	1992229
## 2018-07-25	42.55	42.75	42.40	42.60	2151589
## 2018-07-26	42.70	42.85	42.60	42.75	2189944
## 2018-07-27	42.70	42.80	42.50	42.75	2222599
## 2018-07-30	42.30	43.00	42.30	42.95	2968219
## 2018-07-31	43.20	44.05	43.00	44.00	4632113
## 2018-08-01	43.85	44.00	43.30	43.45	2944132
## 2018-08-02	43.30	43.70	42.70	42.75	2572380
## 2018-08-03	42.50	42.80	42.25	42.60	2447779
## 2018-08-06	42.80	42.80	42.35	42.55	1441871
## 2018-08-07	42.80	42.80	42.80	42.80	0
## 2018-08-08	42.40	42.40	41.45	41.70	15704988
## 2018-08-09	41.25	41.40	40.50	40.95	13605199
## 2018-08-10	40.50	40.90	40.00	40.05	14977580
## 2018-08-13	39.15	39.65	38.50	39.50	11007717
## 2018-08-14	39.60	40.25	39.50	39.80	7156013
## 2018-08-15	39.95	40.00	39.25	40.00	4187396

## 2018-08-16	39.80	40.00	39.50	39.65	4332882
## 2018-08-17	40.00	40.00	39.50	39.80	3105507
## 2018-08-20	39.80	40.50	39.75	40.45	3905984
## 2018-08-21	40.50	40.50	39.85	39.90	4248610
## 2018-08-22	39.50	39.90	39.35	39.75	2212703
## 2018-08-23	39.75	39.85	39.35	39.55	2450761
## 2018-08-24	39.85	40.00	39.50	39.90	2699030
## 2018-08-27	40.25	40.80	40.05	40.70	4027600
## 2018-08-28	40.95	40.95	40.45	40.75	2534294
## 2018-08-29	40.85	40.95	40.65	40.90	2187663
## 2018-08-30	40.95	40.95	40.60	40.70	2418291
## 2018-08-31	40.50	40.70	40.25	40.45	4244104
## 2018-09-03	40.50	40.50	40.00	40.30	1329675
## 2018-09-04	40.20	40.50	40.05	40.40	1310853
## 2018-09-05	40.25	40.30	39.60	39.70	2693446
## 2018-09-06	40.00	40.00	39.35	39.80	4251382
## 2018-09-07	39.75	40.05	39.35	39.85	3885272
## 2018-09-10	39.80	39.85	39.40	39.75	3254186
## 2018-09-11	39.55	40.00	39.40	39.75	4604090
## 2018-09-12	39.45	41.30	39.40	40.75	8035495
## 2018-09-13	40.90	41.50	40.75	41.50	5687528
## 2018-09-14	41.30	41.90	41.30	41.70	6200457
## 2018-09-17	41.65	41.85	40.00	41.80	4763016
## 2018-09-18	41.50	42.10	41.35	42.00	4676239
## 2018-09-19	41.90	41.90	41.50	41.60	3386943
## 2018-09-20	41.55	41.75	41.10	41.15	2627929
## 2018-09-21	41.20	41.55	40.85	41.25	7190091
## 2018-09-24	41.00	41.30	40.65	40.80	3087555
## 2018-09-26	41.45	41.50	40.70	40.75	3365396
## 2018-09-27	41.00	41.35	40.65	41.35	3180884
## 2018-09-28	41.40	41.40	41.00	41.20	3043386
## 2018-10-02	41.00	41.15	40.60	40.80	3141196
## 2018-10-03	40.20	40.95	40.10	40.85	1621157
## 2018-10-04	40.55	40.85	40.10	40.35	3381506
## 2018-10-05	40.15	40.45	40.00	40.25	2035162
## 2018-10-08	40.25	40.70	40.10	40.40	2979651
## 2018-10-09	40.25	40.50	39.85	40.05	3177976
## 2018-10-10	39.95	40.40	39.80	39.95	3115877
## 2018-10-11	39.55	39.65	39.05	39.30	5811484
## 2018-10-12	39.25	39.60	39.20	39.20	4752645
## 2018-10-15	38.75	39.25	38.75	38.80	2372662
## 2018-10-16	38.95	39.10	38.50	38.60	3653657
## 2018-10-18	39.45	39.45	38.35	38.60	4446328
## 2018-10-19	38.60	39.20	38.35	38.90	2701542
## 2018-10-22	38.70	39.00	38.55	38.80	4336213
## 2018-10-23	38.80	38.85	38.10	38.15	3477684
## 2018-10-24	38.20	38.75	38.20	38.45	2847798
## 2018-10-25	38.20	38.40	37.90	38.40	2938385
## 2018-10-26	38.20	38.40	37.85	38.10	2535850
## 2018-10-29	38.10	38.35	37.70	37.95	2926662
## 2018-10-30	38.05	38.05	37.50	37.55	3222471
## 2018-10-31	37.80	38.00	37.60	38.00	2878380
## 2018-11-01	38.30	38.45	37.95	38.10	3968522
## 2018-11-02	38.25	38.95	37.60	38.90	3591750
## 2018-11-05	38.75	38.75	38.05	38.15	1923461
## 2018-11-06	38.55	38.60	38.10	38.60	1554404

## 2018-11-07	38.40	38.85	38.25	38.55	2001356
## 2018-11-08	38.80	38.90	38.60	38.90	2128011
## 2018-11-09	38.80	38.85	38.10	38.30	2283681
## 2018-11-12	38.70	38.90	38.30	38.80	2087802
## 2018-11-13	38.70	38.95	38.40	38.90	3462625
## 2018-11-14	39.05	39.05	38.75	38.95	1934159
## 2018-11-15	39.10	39.85	38.85	39.80	3306828
## 2018-11-16	39.90	39.90	39.50	39.60	1628833
## 2018-11-19	39.80	39.90	39.45	39.70	1415890
## 2018-11-20	39.60	39.75	39.30	39.45	1372043
## 2018-11-21	39.35	39.45	39.00	39.25	2379025
## 2018-11-22	39.90	39.95	39.45	39.90	2195107
## 2018-11-23	39.90	39.95	39.60	39.75	804601
## 2018-11-26	40.20	40.50	39.85	40.50	4840212
## 2018-11-27	40.55	40.60	40.10	40.50	2326111
## 2018-11-28	40.30	40.75	40.30	40.65	2924108
## 2018-11-29	40.95	40.95	40.00	40.15	2650303
## 2018-11-30	40.15	40.70	40.05	40.60	7660741
## 2018-12-03	40.95	41.00	40.60	40.80	4168350
## 2018-12-04	40.95	41.00	40.70	41.00	3135525
## 2018-12-05	40.35	40.85	40.35	40.85	1982184
## 2018-12-06	40.05	40.55	39.90	40.40	3210423
## 2018-12-07	41.35	41.35	40.45	40.90	8433819
## 2018-12-10	40.65	40.65	39.50	39.60	6471514
## 2018-12-11	39.70	40.00	39.65	39.80	2308800
## 2018-12-12	39.95	40.90	39.95	40.70	3867169
## 2018-12-13	41.00	41.20	40.80	41.00	2873391
## 2018-12-14	40.45	41.05	40.45	41.05	4543959
## 2018-12-17	41.00	41.20	40.85	41.20	2602389
## 2018-12-18	41.00	41.25	40.80	41.20	2622699
## 2018-12-19	41.25	41.30	40.55	41.00	1771876
## 2018-12-20	41.00	41.00	40.40	40.95	1804780
## 2018-12-21	40.95	41.00	40.40	40.70	3128539
## 2018-12-24	40.35	41.30	40.35	41.30	1407253
## 2018-12-27	41.15	41.30	40.60	40.75	2201149
## 2018-12-28	41.00	41.00	40.60	41.00	1395213
## 2018-12-31	41.20	41.25	40.90	41.20	1229817
## 2019-01-02	41.20	41.25	40.30	40.50	2859740
## 2019-01-03	40.50	40.95	40.30	40.90	1714593
## 2019-01-04	40.90	41.20	40.50	41.20	4207041
## 2019-01-07	41.30	41.50	41.25	41.50	3005677
## 2019-01-08	41.20	41.70	41.20	41.70	3116757
## 2019-01-09	42.00	42.00	41.55	41.80	3720428
## 2019-01-10	41.25	41.90	41.25	41.80	2207643
## 2019-01-11	41.85	42.05	41.65	42.00	2943351
## 2019-01-14	41.80	42.00	41.40	41.85	1731959
## 2019-01-15	41.95	42.20	41.80	42.15	3924527
## 2019-01-16	41.95	42.25	41.75	42.25	2599382
## 2019-01-17	42.20	42.30	41.75	42.20	1496984
## 2019-01-18	42.40	42.40	42.05	42.30	1711720
## 2019-01-21	42.35	42.50	42.00	42.45	1168239
## 2019-01-22	42.35	42.40	42.15	42.35	891131
## 2019-01-23	42.10	42.50	42.10	42.50	1918008
## 2019-01-24	42.60	42.60	42.25	42.60	1555157
## 2019-01-25	42.70	42.95	42.45	42.90	1964427
## 2019-01-28	43.00	43.10	42.75	43.00	2302905

## 2019-01-29	43.00	43.55	42.85	43.55	3378213
## 2019-01-30	43.90	43.90	43.30	43.50	3691080
## 2019-01-31	43.70	43.80	43.25	43.80	3102923
## 2019-02-01	43.80	43.85	43.20	43.35	1592356
## 2019-02-04	43.05	43.50	43.00	43.40	1105884
## 2019-02-08	43.40	43.55	43.00	43.55	2686891
## 2019-02-11	43.55	43.85	43.40	43.85	2026993
## 2019-02-12	43.80	43.95	43.65	43.80	3060144
## 2019-02-13	43.95	44.00	43.65	44.00	2994735
## 2019-02-14	43.70	43.95	43.55	43.75	3364401
## 2019-02-15	43.65	43.95	43.50	43.80	2121043
## 2019-02-18	44.00	44.10	43.85	44.00	2206487
## 2019-02-19	44.10	44.10	43.85	44.10	2152148
## 2019-02-20	44.15	44.75	44.15	44.60	3265510
## 2019-02-21	44.70	45.00	44.50	45.00	3358289
## 2019-02-22	45.10	45.10	44.80	44.90	2774410
## 2019-02-25	44.85	44.95	44.40	44.80	2586976
## 2019-02-26	45.00	45.00	44.30	44.80	2860556
## 2019-02-27	45.00	45.00	44.70	45.00	2634019
## 2019-02-28	45.60	45.60	44.95	45.10	4702088
## 2019-03-01	45.00	45.50	45.00	45.20	2774435
## 2019-03-04	45.60	45.60	44.45	44.90	2584325
## 2019-03-05	44.50	45.00	44.40	44.65	1792285
## 2019-03-06	44.30	44.85	44.30	44.75	1882774
## 2019-03-07	44.95	45.30	44.55	44.85	2593860
## 2019-03-08	45.80	45.80	45.30	45.75	10280698
## 2019-03-11	45.80	47.00	45.70	46.95	9039475
## 2019-03-12	46.85	47.00	46.75	47.00	5246530
## 2019-03-13	46.95	47.00	46.75	46.95	4271166
## 2019-03-14	47.00	47.80	46.85	47.70	5275976
## 2019-03-15	47.60	48.00	47.45	47.55	5100762
## 2019-03-18	47.15	47.70	46.95	47.70	5293875
## 2019-03-19	47.70	47.90	47.35	47.90	3974120
## 2019-03-20	47.75	48.00	47.10	47.20	4214641
## 2019-03-21	47.40	47.50	47.00	47.20	2655903
## 2019-03-22	47.70	47.70	47.10	47.30	1834178
## 2019-03-25	46.50	47.00	46.45	46.80	2332720
## 2019-03-26	46.80	47.60	46.75	47.50	3466577
## 2019-03-27	47.25	47.60	47.25	47.55	2197985
## 2019-03-28	47.05	47.85	47.05	47.85	3380720
## 2019-03-29	47.95	48.60	47.80	48.60	5041660
## 2019-04-01	48.70	49.00	48.60	48.90	3878812
## 2019-04-02	49.00	49.00	48.50	49.00	2997370
## 2019-04-03	48.70	49.00	48.45	49.00	4350712
## 2019-04-04	48.90	49.20	48.40	48.65	3001491
## 2019-04-08	49.50	49.50	48.05	48.40	3610038
## 2019-04-09	48.20	48.95	48.00	48.90	3013919
## 2019-04-10	48.90	48.90	48.50	48.65	1136965
## 2019-04-11	48.65	48.80	47.85	47.95	3021126
## 2019-04-12	47.95	48.70	47.80	48.70	1926792
## 2019-04-15	48.75	48.90	48.25	48.35	1894509
## 2019-04-16	48.15	48.75	48.15	48.50	1743692
## 2019-04-17	48.50	48.65	47.70	47.80	2536579
## 2019-04-18	47.55	47.70	47.10	47.45	4862950
## 2019-04-23	47.05	47.85	47.00	47.50	2183915
## 2019-04-24	47.65	47.70	46.60	46.80	5432415

## 2019-04-25	46.80	47.10	46.30	46.40	3017029
## 2019-04-26	46.60	46.95	46.40	46.80	1750450
## 2019-04-29	46.80	47.15	46.80	47.00	1113485
## 2019-04-30	46.50	47.00	46.50	46.70	1764166
## 2019-05-02	46.70	47.50	46.50	47.45	2468823
## 2019-05-03	47.35	47.70	47.05	47.65	2027213
## 2019-05-06	47.20	47.20	46.50	46.70	3122128
## 2019-05-07	47.00	47.50	46.90	47.30	2988819
## 2019-05-08	46.65	47.20	46.55	46.90	3775843
## 2019-05-09	46.70	46.80	46.00	46.10	2973818
## 2019-05-10	46.50	46.95	46.10	46.20	2859019
## 2019-05-14	46.40	46.75	45.70	46.60	5017808
## 2019-05-15	46.30	46.65	46.20	46.40	2289511
## 2019-05-16	46.30	47.55	46.15	47.55	4236035
## 2019-05-17	47.60	48.40	47.50	48.00	4406662
## 2019-05-20	48.20	48.95	48.10	48.95	4542253
## 2019-05-21	48.85	49.00	48.60	48.65	3367605
## 2019-05-22	48.50	48.95	48.30	48.45	2748998
## 2019-05-23	48.60	48.75	48.00	48.75	4219791
## 2019-05-24	47.45	47.90	47.15	47.90	2728643
## 2019-05-27	47.85	47.85	47.45	47.75	1429898
## 2019-05-28	47.50	47.75	47.20	47.55	6325137
## 2019-05-29	47.80	48.00	47.50	48.00	4765110
## 2019-05-30	48.20	48.25	47.25	47.50	3164427
## 2019-05-31	47.45	47.95	47.40	47.95	4683127
## 2019-06-03	48.00	48.00	47.40	47.90	3732300
## 2019-06-04	47.95	47.95	47.40	47.80	3024250
## 2019-06-05	47.90	48.05	47.60	48.05	2962346
## 2019-06-06	47.80	48.50	47.75	48.30	3017445
## 2019-06-10	48.50	48.70	47.90	48.45	4329058
## 2019-06-11	48.55	49.00	48.30	49.00	5648307
## 2019-06-12	48.75	49.10	48.25	48.55	5691118
## 2019-06-13	48.05	48.80	47.50	48.80	4197050
## 2019-06-14	48.45	49.35	48.35	49.35	10643297
## 2019-06-17	49.30	50.30	49.05	49.75	8422394
## 2019-06-18	49.65	50.00	49.60	49.90	2998343
## 2019-06-19	50.30	51.95	50.00	50.70	7850538
## 2019-06-20	50.55	51.00	50.40	51.00	4116361
## 2019-06-21	50.95	51.40	50.90	51.40	5462576
## 2019-06-24	51.20	51.95	51.20	51.85	3953735
## 2019-06-25	51.50	52.55	51.45	52.35	7362956
## 2019-06-26	52.15	52.90	51.95	52.55	4427660
## 2019-06-27	52.50	52.85	52.10	52.85	3376428
## 2019-06-28	52.80	52.80	52.20	52.60	2684563
## 2019-07-02	52.50	52.95	52.25	52.95	4781581
## 2019-07-03	53.00	53.60	52.70	53.40	3133057
## 2019-07-04	53.15	53.95	53.15	53.65	2241085
## 2019-07-05	53.35	54.00	53.30	53.80	4570205
## 2019-07-08	53.55	53.80	52.70	53.00	4312693
## 2019-07-09	53.00	53.80	52.85	53.30	3429732
## 2019-07-10	53.40	53.95	53.40	53.85	3050293
## 2019-07-11	54.00	54.50	53.90	54.20	3008242
## 2019-07-12	54.20	54.40	54.00	54.40	1473822
## 2019-07-15	54.35	54.65	53.65	54.45	2306447
## 2019-07-16	54.60	55.20	54.45	55.20	2746986
## 2019-07-17	55.20	55.70	55.00	55.65	2621887

## 2019-07-18	55.50	55.75	55.25	55.70	2641589
## 2019-07-19	54.05	54.95	53.65	54.20	17179993
## 2019-07-22	53.50	54.15	53.00	53.20	8462186
## 2019-07-23	53.30	54.20	53.00	54.10	3637649
## 2019-07-24	54.10	54.30	53.55	53.60	3825153
## 2019-07-25	53.40	53.80	53.15	53.60	3346696
## 2019-07-26	53.45	54.00	53.40	53.80	2646130
## 2019-07-29	53.20	53.45	51.50	52.10	10681096
## 2019-07-30	51.80	52.40	51.80	52.35	4809498
## 2019-07-31	52.00	52.00	51.45	51.55	4965666
## 2019-08-01	51.00	51.90	50.85	50.95	6315932
## 2019-08-02	49.45	50.20	49.35	50.10	11430684
## 2019-08-05	49.00	49.30	48.10	48.40	11622306
## 2019-08-06	47.80	49.30	47.10	49.10	10341812
## 2019-08-07	49.30	49.50	48.30	48.55	5864551
## 2019-08-08	48.50	49.70	48.50	48.75	5846792
## 2019-08-09	49.85	49.85	48.90	49.15	5841812
## 2019-08-12	48.95	49.25	47.65	47.80	6193611
## 2019-08-13	47.40	47.40	45.80	45.95	11514447
## 2019-08-14	46.80	47.00	45.20	45.30	8277344
## 2019-08-15	45.15	47.55	45.00	47.30	10915075
## 2019-08-16	47.55	48.90	47.00	48.30	10871245
## 2019-08-19	49.05	49.35	48.60	49.25	7228139
## 2019-08-20	49.50	49.60	48.80	48.90	4095494
## 2019-08-21	48.75	48.80	48.15	48.70	3101660
## 2019-08-22	49.00	49.00	47.50	47.80	3372310
## 2019-08-23	47.50	47.80	47.00	47.10	4018044
## 2019-08-26	45.80	46.45	45.15	46.40	7060783
## 2019-08-27	46.60	46.85	46.15	46.65	4330423
## 2019-08-28	46.85	47.25	46.55	47.10	3987722
## 2019-08-29	46.90	46.90	46.05	46.35	4753576
## 2019-08-30	46.60	46.65	45.00	45.40	7390840
## 2019-09-02	44.80	44.80	43.65	44.00	11605000
## 2019-09-03	43.80	44.95	43.75	44.50	5566141
## 2019-09-04	44.95	47.85	44.65	47.35	19776954
## 2019-09-05	47.05	47.20	46.10	46.70	10116647
## 2019-09-06	47.10	47.20	46.30	46.55	5465338
## 2019-09-09	46.10	46.40	45.50	46.35	7840406
## 2019-09-10	46.45	46.60	45.60	46.05	5841266
## 2019-09-11	45.90	47.85	45.65	47.60	11156419
## 2019-09-12	48.00	48.10	46.80	47.00	4615508
## 2019-09-13	47.00	47.40	46.70	47.35	3648975
## 2019-09-16	46.40	47.00	46.20	46.80	4032848
## 2019-09-17	45.90	46.45	45.80	46.20	4520820
## 2019-09-18	46.40	46.60	46.15	46.50	2396645
## 2019-09-19	46.30	46.40	45.65	45.80	4305927
## 2019-09-20	46.45	46.45	45.95	45.95	4616885
## 2019-09-23	46.25	46.25	45.00	45.50	3331507
## 2019-09-24	46.00	46.00	45.10	45.15	3936164
## 2019-09-25	45.50	45.50	44.60	44.90	3566517
## 2019-09-26	44.50	45.05	44.10	44.25	3904057
## 2019-09-27	44.40	44.55	44.00	44.35	3055097
## 2019-09-30	44.00	44.30	43.80	44.00	2498250
## 2019-10-02	43.50	43.85	43.30	43.50	7010741
## 2019-10-03	43.00	44.50	42.75	44.50	9614407
## 2019-10-04	44.50	44.80	43.25	43.65	6584298

## 2019-10-08	43.00	43.80	42.60	43.60	9275098
## 2019-10-09	43.60	43.95	43.20	43.20	4326477
## 2019-10-10	43.25	43.50	42.55	42.70	4287061
## 2019-10-11	43.20	44.35	43.00	43.85	7732600
## 2019-10-14	44.20	44.20	43.30	43.50	4273706
## 2019-10-15	43.40	43.75	43.05	43.70	2833534
## 2019-10-16	43.85	45.75	43.50	44.95	11928506
## 2019-10-17	45.10	45.60	44.50	44.75	7184244
## 2019-10-18	44.95	44.95	43.85	43.95	4404816
## 2019-10-21	43.75	44.30	43.75	44.10	1949823
## 2019-10-22	44.15	44.30	43.85	44.05	1775214
## 2019-10-23	44.50	44.60	43.60	44.35	4219003
## 2019-10-24	44.30	45.00	44.30	44.75	3396349
## 2019-10-25	44.75	44.80	44.15	44.55	2163800
## 2019-10-28	44.80	45.25	44.60	44.90	3214584
## 2019-10-29	45.30	45.35	44.85	45.15	4555028
## 2019-10-30	44.90	45.20	44.90	44.90	3151158
## 2019-10-31	44.90	45.25	44.65	45.00	3765830
## 2019-11-01	44.50	45.60	44.50	45.55	4256224
## 2019-11-04	45.50	46.00	45.45	45.95	4928252
## 2019-11-05	46.00	46.25	45.70	46.20	4535321
## 2019-11-06	46.20	46.20	45.50	45.90	4256951
## 2019-11-07	46.05	46.05	45.45	45.80	5026307
## 2019-11-08	45.55	45.70	44.75	45.05	5504750
## 2019-11-11	44.20	44.70	43.50	43.65	6551060
## 2019-11-12	44.05	44.30	43.65	44.15	3662439
## 2019-11-13	43.50	43.85	42.80	43.20	7491214
## 2019-11-14	42.80	43.15	42.55	42.60	4322242
## 2019-11-15	42.50	43.50	42.50	42.80	3116443
## 2019-11-18	43.00	43.45	42.80	43.25	2979948
## 2019-11-19	43.05	43.95	42.80	43.85	3474556
## 2019-11-20	43.85	43.85	43.40	43.80	2274065
## 2019-11-21	43.20	43.50	42.75	43.30	3630256
## 2019-11-22	43.30	43.30	42.50	42.85	6966919
## 2019-11-25	43.10	44.00	43.10	43.80	7626415
## 2019-11-26	44.30	44.30	42.90	43.35	12119594
## 2019-11-27	43.85	45.15	43.75	45.00	13205747
## 2019-11-28	45.20	45.20	44.55	44.80	4335553
## 2019-11-29	45.00	45.00	43.80	43.90	5818939
## 2019-12-02	44.35	44.35	43.70	43.90	2697580
## 2019-12-03	43.80	43.80	42.85	43.40	4745763
## 2019-12-04	43.00	43.45	43.00	43.20	2425317
## 2019-12-05	43.40	43.55	43.20	43.55	4998865
## 2019-12-06	44.50	44.50	43.60	44.15	3671317
## 2019-12-09	44.25	44.35	44.00	44.35	2390060
## 2019-12-10	44.20	44.30	43.65	43.90	4669576
## 2019-12-11	44.00	45.70	43.90	45.70	11564352
## 2019-12-12	46.10	46.50	45.70	46.30	8245070
## 2019-12-13	46.85	47.20	46.35	46.40	8354658
## 2019-12-16	46.35	46.85	45.90	45.95	4664588
## 2019-12-17	45.95	46.40	45.80	46.05	3236597
## 2019-12-18	45.95	46.75	45.60	46.35	3932578
## 2019-12-19	46.25	46.50	46.10	46.20	3372187
## 2019-12-20	46.20	46.80	45.80	46.10	5878263
## 2019-12-23	46.60	46.60	45.90	46.05	2136982
## 2019-12-24	46.05	46.25	45.75	46.10	947569

## 2019-12-27	46.70	46.75	46.10	46.35	1598711
## 2019-12-30	46.50	46.50	46.00	46.45	1763969
## 2019-12-31	46.20	46.45	45.95	46.05	1835407
## 2020-01-02	46.10	46.15	45.50	45.90	3603916
## 2020-01-03	46.30	46.45	45.55	45.70	3378631
## 2020-01-06	45.70	45.95	45.00	45.50	2761345
## 2020-01-07	45.90	46.00	45.05	45.20	2981976
## 2020-01-08	45.00	45.50	44.70	45.25	3473167
## 2020-01-09	45.65	46.20	45.45	46.05	3457549
## 2020-01-10	46.30	46.40	45.85	46.40	4205721
## 2020-01-13	46.70	47.45	46.10	47.10	7634769
## 2020-01-14	47.60	47.60	46.75	47.45	4230673
## 2020-01-15	47.00	47.35	46.65	47.20	3210171
## 2020-01-16	46.85	47.20	46.70	46.95	2953584
## 2020-01-17	46.90	47.80	46.70	47.80	4317302
## 2020-01-20	47.30	47.75	47.30	47.30	2510927
## 2020-01-21	46.90	47.10	46.30	46.65	5468512
## 2020-01-22	46.35	47.15	46.30	47.15	3920617
## 2020-01-23	46.65	46.65	45.90	46.20	4294905
## 2020-01-24	45.90	46.20	45.80	46.15	1449854
## 2020-01-29	44.80	45.25	44.70	44.95	4684605
## 2020-01-30	44.60	45.10	44.00	44.15	4488218
## 2020-01-31	45.15	45.15	43.80	43.90	3847710
## 2020-02-03	43.75	43.75	43.05	43.70	3878545
## 2020-02-04	44.00	44.35	43.45	43.75	5120963
## 2020-02-05	43.90	44.00	43.25	43.55	5271978
## 2020-02-06	43.95	44.80	43.95	44.50	5374086
## 2020-02-07	44.50	44.95	44.05	44.45	3551833
## 2020-02-10	44.20	44.60	43.85	44.60	3582763
## 2020-02-11	45.50	45.50	44.50	44.85	2983341
## 2020-02-12	44.85	45.15	44.60	45.15	3265729
## 2020-02-13	45.20	45.30	44.70	45.15	2438904
## 2020-02-14	45.20	45.90	45.05	45.25	3721308
## 2020-02-17	45.40	45.90	45.10	45.65	2277045
## 2020-02-18	45.20	45.55	44.90	45.15	3002317
## 2020-02-19	44.85	45.25	44.60	45.20	2828652
## 2020-02-20	44.95	45.10	44.50	44.65	3066841
## 2020-02-21	44.50	44.75	44.30	44.45	4741125
## 2020-02-24	44.10	44.30	43.55	43.90	3523204
## 2020-02-25	43.90	44.10	43.50	43.70	4935404
## 2020-02-26	43.30	43.90	43.30	43.80	3314192
## 2020-02-27	44.35	44.35	43.60	44.05	2366168
## 2020-02-28	43.50	44.00	43.40	43.85	5406939
## 2020-03-02	43.50	43.90	43.00	43.05	4978530
## 2020-03-03	43.45	43.55	43.05	43.30	4120613
## 2020-03-04	43.80	43.80	42.95	43.05	2970891
## 2020-03-05	43.35	43.55	42.95	43.45	3500795
## 2020-03-06	43.60	43.60	42.60	42.65	5563043
## 2020-03-09	42.40	42.40	40.80	41.35	8696368
## 2020-03-10	41.30	42.40	41.20	42.10	5168268
## 2020-03-11	42.40	42.75	42.00	42.15	4068380
## 2020-03-12	41.90	42.15	40.80	40.95	5253759
## 2020-03-13	39.20	40.75	38.50	40.60	9057392
## 2020-03-16	38.80	40.10	38.70	38.95	9460780
## 2020-03-17	39.40	40.15	38.80	39.70	8426643
## 2020-03-18	39.10	40.35	38.80	38.85	8234578



## 2020-03-19	38.85	39.80	38.00	38.80	9918775
## 2020-03-20	38.50	40.40	38.50	40.40	9177754
## 2020-03-23	38.80	38.80	38.00	38.20	8211861
## 2020-03-24	39.85	40.00	38.65	39.35	7895670
## 2020-03-25	39.80	40.55	39.55	40.40	6675285
## 2020-03-26	40.50	40.60	39.60	40.55	7027342
## 2020-03-27	41.00	41.00	40.05	40.30	3959138
## 2020-03-30	39.20	40.35	39.20	39.50	4727909
## 2020-03-31	40.00	40.50	39.20	40.05	5589940
## 2020-04-01	39.70	40.25	39.25	39.55	5463594
## 2020-04-02	40.50	40.50	39.50	39.95	4997986
## 2020-04-03	40.40	41.30	40.20	41.30	6526450
## 2020-04-06	42.00	42.00	41.10	41.45	4887603
## 2020-04-07	42.00	42.40	41.55	42.40	5602253
## 2020-04-08	42.50	42.60	41.50	41.90	3342002
## 2020-04-09	42.50	42.50	41.70	42.30	3787162
## 2020-04-14	42.30	43.80	42.15	43.00	5165441
## 2020-04-15	43.50	43.50	42.50	42.75	4906112
## 2020-04-16	42.25	42.80	42.15	42.35	2800887
## 2020-04-17	43.10	43.60	42.80	43.15	4915520
## 2020-04-20	42.80	42.90	41.85	42.10	6609672
## 2020-04-21	42.00	42.10	41.25	41.65	4258003
## 2020-04-22	41.65	41.90	41.00	41.70	2893954
## 2020-04-23	41.95	42.00	41.10	41.90	3268015
## 2020-04-24	41.20	41.70	41.10	41.25	4639683
## 2020-04-27	41.00	41.95	41.00	41.80	4226273
## 2020-04-28	41.50	42.70	41.50	42.65	5766158
## 2020-04-29	43.25	43.25	42.50	43.05	3977386
## 2020-05-04	43.05	43.05	41.25	41.30	6109760
## 2020-05-05	41.50	42.50	41.50	42.40	2493463
## 2020-05-06	42.50	43.15	42.20	43.00	2434316
## 2020-05-07	42.95	42.95	42.45	42.85	1988742
## 2020-05-08	43.00	43.20	42.65	42.70	2349349
## 2020-05-11	42.95	43.00	42.70	42.80	3650660
## 2020-05-12	42.80	43.00	42.10	42.45	3299185
## 2020-05-13	42.40	42.65	41.70	41.80	5067074
## 2020-05-14	41.80	41.80	40.90	41.05	6111745
## 2020-05-15	41.40	41.50	40.80	41.30	2947585
## 2020-05-18	41.30	41.55	41.00	41.40	1602413
## 2020-05-19	42.00	42.55	41.90	42.10	3514669
## 2020-05-20	42.35	42.50	42.00	42.50	3610933
## 2020-05-21	42.85	42.85	42.05	42.20	3452006
## 2020-05-22	40.30	40.40	37.60	38.05	22440953
## 2020-05-25	37.60	38.00	37.00	37.40	8113695
## 2020-05-26	37.90	38.35	37.50	37.80	6717327
## 2020-05-27	38.10	38.20	37.45	37.75	4932559
## 2020-05-28	37.35	37.70	36.60	36.85	11683367
## 2020-05-29	36.50	37.20	36.20	37.15	11627128
## 2020-06-01	37.90	38.75	37.85	38.40	10439754
## 2020-06-02	38.15	39.10	38.15	39.10	6073919
## 2020-06-03	39.80	39.80	39.25	39.70	6977397
## 2020-06-04	40.00	40.00	39.25	39.55	6437975
## 2020-06-05	39.35	40.75	39.35	40.70	6815558
## 2020-06-08	41.00	41.30	40.70	41.15	8592625
## 2020-06-09	41.60	42.90	41.35	42.60	12785886
## 2020-06-10	43.00	43.00	41.25	41.60	7832392

## 2020-06-11	41.00	41.20	40.35	40.70	7028847
## 2020-06-12	39.50	40.85	39.50	40.85	4428387
## 2020-06-15	40.00	40.55	39.40	39.55	5401670
## 2020-06-16	40.30	40.65	40.00	40.05	5119962
## 2020-06-17	39.85	40.30	39.65	40.05	5330391
## 2020-06-18	39.80	40.25	39.60	40.25	2673555
## 2020-06-19	39.85	40.20	39.60	40.15	8249343
## 2020-06-22	39.80	40.15	39.40	39.45	3069684
## 2020-06-23	39.45	40.55	39.30	40.55	6079594
## 2020-06-24	40.55	40.75	40.10	40.40	3321053
## 2020-06-26	40.00	40.50	40.00	40.35	3951840
## 2020-06-29	40.05	40.15	39.00	39.40	5477583
## 2020-06-30	39.75	40.15	39.40	40.15	4806004
## 2020-07-02	40.65	41.65	40.45	41.65	10718826
## 2020-07-03	41.80	41.80	41.15	41.55	4434793
## 2020-07-06	41.60	42.85	41.45	42.85	11224922
## 2020-07-07	42.90	42.95	41.75	42.15	10106940
## 2020-07-08	42.00	42.00	40.60	41.15	10140130
## 2020-07-09	41.50	41.50	39.95	40.10	17531277
## 2020-07-10	40.00	40.60	39.50	39.75	10081145
## 2020-07-13	40.00	40.10	39.10	39.20	7740669
## 2020-07-14	39.05	39.40	38.80	39.10	5597029
## 2020-07-15	40.10	40.10	38.80	38.85	6272586
## 2020-07-16	39.00	39.35	38.85	39.20	5666758
## 2020-07-17	38.55	39.15	38.55	39.10	3141864
## 2020-07-20	38.65	39.00	38.25	38.80	4667485
## 2020-07-21	38.75	39.20	38.75	38.95	2836802
## 2020-07-22	38.85	39.60	38.50	38.55	3001796
## 2020-07-23	38.80	39.00	38.35	38.40	2509667
## 2020-07-24	38.00	38.45	38.00	38.30	4483915
## 2020-07-27	38.45	38.50	37.80	38.10	3328589
## 2020-07-28	38.70	38.70	38.10	38.40	3331067
## 2020-07-29	38.60	38.60	37.85	37.95	3339752
## 2020-07-30	38.30	39.00	38.10	38.40	6254023
## 2020-07-31	38.90	38.95	38.40	38.50	4675320
## 2020-08-03	38.75	38.95	38.00	38.75	3561442
## 2020-08-04	38.95	39.95	38.80	39.65	6505247
## 2020-08-05	39.45	39.90	39.20	39.50	3529859
## 2020-08-06	39.50	39.70	38.90	39.40	3128411
## 2020-08-07	39.40	39.40	38.80	39.10	3452065
## 2020-08-10	39.10	40.00	39.00	39.95	6064971
## 2020-08-11	40.40	40.40	39.80	40.00	4889529
## 2020-08-12	40.00	40.90	40.00	40.90	6066645
## 2020-08-13	41.15	41.15	40.30	40.60	3358565
## 2020-08-14	40.30	40.55	40.15	40.35	3186905
## 2020-08-17	40.35	40.80	40.00	40.25	3570082
## 2020-08-18	40.30	40.50	40.05	40.50	3708354
## 2020-08-19	39.80	40.50	39.80	40.20	2694755
## 2020-08-20	39.70	40.15	39.55	40.00	2580845
## 2020-08-21	40.00	40.35	39.65	40.05	2527956
## 2020-08-24	40.45	40.95	40.45	40.70	3589194
## 2020-08-25	40.70	40.80	40.25	40.80	2649405
## 2020-08-26	40.80	40.80	40.00	40.60	2771219
## 2020-08-27	40.60	40.70	40.35	40.55	2828176
## 2020-08-28	40.25	41.00	40.15	40.60	2965944
## 2020-08-31	40.65	41.20	40.35	40.35	4655724

## 2020-09-01	40.35	40.65	39.90	40.40	2964952
## 2020-09-02	40.20	40.60	40.00	40.35	2459526
## 2020-09-03	40.30	40.80	40.05	40.80	3172299
## 2020-09-04	40.50	40.55	39.85	40.05	6584729
## 2020-09-07	40.60	40.60	39.85	40.05	2683709
## 2020-09-08	40.00	40.20	39.65	39.95	1913829
## 2020-09-09	39.65	39.95	39.65	39.95	1453978
## 2020-09-10	40.10	40.15	39.50	39.55	2208907
## 2020-09-11	39.60	39.95	39.30	39.45	3419974
## 2020-09-14	39.75	39.75	39.20	39.20	3181384
## 2020-09-15	39.20	39.95	39.00	39.65	6193067
## 2020-09-16	39.85	40.40	39.65	39.75	2969452
## 2020-09-17	39.50	40.95	39.50	40.45	6333955
## 2020-09-18	40.50	40.50	40.10	40.35	4759009
## 2020-09-21	40.50	40.50	40.00	40.15	1987134
## 2020-09-22	40.00	40.40	39.80	40.15	3054741
## 2020-09-23	40.00	40.50	40.00	40.50	3203268
## 2020-09-24	40.05	40.30	39.35	39.60	3721868
## 2020-09-25	39.50	39.90	39.45	39.70	2033920
## 2020-09-28	40.00	40.00	39.20	39.45	2344096
## 2020-09-29	39.20	39.50	38.40	38.40	7942007
## 2020-09-30	38.50	38.65	38.15	38.25	8250140
## 2020-10-05	38.80	38.80	37.65	37.90	7309125
## 2020-10-06	38.30	38.80	38.20	38.80	2518524
## 2020-10-07	38.80	39.25	38.60	39.25	3169988
## 2020-10-08	38.85	39.25	38.70	38.75	2573016
## 2020-10-09	39.40	39.40	38.50	38.65	2183471
## 2020-10-12	38.95	39.10	38.75	39.10	2371517
## 2020-10-14	40.60	40.60	39.10	39.30	4344644
## 2020-10-15	39.30	39.45	38.70	38.95	1571570
## 2020-10-16	38.75	39.10	38.60	38.60	3231796
## 2020-10-19	38.70	39.10	38.70	39.00	1883656
## 2020-10-20	39.05	39.25	38.80	39.05	2416913
## 2020-10-21	38.85	38.90	38.70	38.80	2679917
## 2020-10-22	38.80	38.80	38.55	38.75	1802670
## 2020-10-23	38.95	39.10	38.50	39.05	1892154
## 2020-10-27	38.60	39.25	38.50	38.70	2591345
## 2020-10-28	38.85	38.85	38.30	38.35	2694823
## 2020-10-29	38.35	38.80	38.00	38.80	3584134
## 2020-10-30	38.75	38.90	38.10	38.35	2871295
## 2020-11-02	38.35	38.40	38.00	38.40	2280597
## 2020-11-03	38.60	39.00	38.30	38.50	3009942
## 2020-11-04	38.70	39.15	38.55	38.90	2938656
## 2020-11-05	39.35	39.40	38.70	39.20	3325514
## 2020-11-06	39.20	39.50	39.00	39.50	3462822
## 2020-11-09	40.00	40.00	39.60	39.70	2653780
## 2020-11-10	39.85	40.35	39.85	40.20	5461994
## 2020-11-11	40.30	42.30	40.25	42.10	13456468
## 2020-11-12	42.00	42.10	41.20	41.85	5813195
## 2020-11-13	41.80	41.95	41.35	41.65	4281783
## 2020-11-16	42.00	42.30	41.75	41.95	3290179
## 2020-11-17	41.75	42.40	41.70	42.30	4421592
## 2020-11-18	41.90	42.50	41.90	42.50	3623237
## 2020-11-19	42.50	43.00	42.30	42.85	4592448
## 2020-11-20	42.70	43.10	41.70	41.95	4324697
## 2020-11-23	41.95	42.10	41.30	41.55	3137507

## 2020-11-24	41.60	42.40	41.45	42.40	3511278
## 2020-11-25	42.75	42.85	42.25	42.55	4351043
## 2020-11-26	42.65	42.80	41.80	42.15	1907448
## 2020-11-27	42.45	43.10	42.20	42.85	5811806
## 2020-11-30	43.00	43.20	42.00	42.05	11070555
## 2020-12-01	42.30	42.50	41.50	41.75	3470851
## 2020-12-02	41.80	42.35	41.30	42.35	3009245
## 2020-12-03	42.95	42.95	42.20	42.95	4493687
## 2020-12-04	43.20	43.20	42.65	42.80	5408945
## 2020-12-07	42.35	43.00	42.10	42.25	2033613
## 2020-12-08	42.25	42.80	42.00	42.20	2537160
## 2020-12-09	42.00	42.90	41.80	42.80	2794966
## 2020-12-10	42.50	42.80	42.30	42.65	3313294
## 2020-12-11	43.00	43.40	42.55	43.35	6569650
## 2020-12-14	43.25	43.35	42.10	42.55	4214336
## 2020-12-15	43.10	43.10	42.30	42.80	3645046
## 2020-12-16	42.70	43.20	42.70	43.20	5850214
## 2020-12-17	43.20	43.95	42.90	43.95	5953582
## 2020-12-18	44.05	44.40	43.85	44.05	6830676
## 2020-12-21	44.30	44.40	43.85	44.15	3879008
## 2020-12-22	43.80	44.00	42.85	43.15	3648760
## 2020-12-23	43.40	43.50	42.60	43.30	2995849
## 2020-12-24	43.55	43.55	43.55	43.55	0
## 2020-12-28	43.45	44.00	43.40	43.85	2311298
## 2020-12-29	43.50	43.85	43.25	43.65	2476558
## 2020-12-30	43.95	43.95	42.90	43.80	3685653
## 2020-12-31	43.30	43.30	43.30	43.30	0
## 2021-01-04	43.25	44.25	43.25	44.15	3431742
## 2021-01-05	43.80	45.10	43.55	45.10	5883886
## 2021-01-06	45.50	45.50	44.60	44.95	2876828
## 2021-01-07	44.95	45.10	44.55	44.85	2566627
## 2021-01-08	44.90	44.90	44.15	44.60	2954600
## 2021-01-11	44.60	44.60	43.85	44.00	3709890
## 2021-01-12	44.35	44.80	43.95	44.60	4617864
## 2021-01-13	44.95	45.00	44.50	45.00	3282532
## 2021-01-14	45.20	45.60	44.90	45.40	4388702
## 2021-01-15	45.30	45.50	44.25	44.75	2597698
## 2021-01-18	44.95	44.95	44.10	44.60	2458329
## 2021-01-19	44.95	45.30	44.25	45.25	5614071
## 2021-01-20	44.25	44.30	43.50	44.05	7560183
## 2021-01-21	44.60	44.80	44.05	44.50	6237485
## 2021-01-22	44.45	44.50	43.50	43.60	4542651
## 2021-01-25	43.90	44.00	42.80	43.35	4415204
## 2021-01-26	43.30	43.75	42.90	43.75	2881215
## 2021-01-27	44.40	44.50	43.95	44.45	5064472
## 2021-01-28	44.70	45.60	43.95	45.45	11592611
## 2021-01-29	45.60	45.60	44.40	45.15	6986633
## 2021-02-01	45.40	45.40	44.30	44.60	3689877
## 2021-02-02	45.00	45.00	44.15	44.65	3284581
## 2021-02-03	44.65	44.90	44.05	44.45	3376074
## 2021-02-04	44.30	44.85	43.90	44.15	3518870
## 2021-02-05	44.00	44.50	44.00	44.50	2043937
## 2021-02-08	44.75	44.75	44.00	44.15	3325659
## 2021-02-09	44.45	44.45	43.95	44.15	2423392
## 2021-02-10	43.95	45.00	43.95	45.00	3311185
## 2021-02-11	44.75	44.75	44.75	44.75	0

## 2021-02-16	45.30	45.35	44.80	45.25	4181467
## 2021-02-17	45.15	45.30	44.70	44.95	2817144
## 2021-02-18	45.05	45.20	44.80	44.90	2694671
## 2021-02-19	44.90	45.50	44.85	45.20	2490079
## 2021-02-22	45.45	45.45	44.85	45.05	3297728
## 2021-02-23	45.30	46.45	44.90	46.30	6633032
## 2021-02-24	47.15	47.50	46.15	46.15	7020816
## 2021-02-25	46.50	47.70	46.15	47.70	6488929
## 2021-02-26	47.05	47.15	46.30	46.55	5659481
## 2021-03-01	46.50	46.60	45.55	45.95	3470230
## 2021-03-02	46.50	46.50	45.50	46.10	4304871
## 2021-03-03	46.00	46.60	45.75	46.40	2927348
## 2021-03-04	45.85	46.95	45.75	46.60	3723843
## 2021-03-05	46.15	47.30	46.00	47.05	4793785
## 2021-03-08	47.40	47.95	47.05	47.45	5216216
## 2021-03-09	48.00	48.75	47.45	48.50	8255812
## 2021-03-10	48.60	49.00	48.00	49.00	6429184
## 2021-03-11	49.00	49.00	48.20	48.75	4896660
## 2021-03-12	48.60	48.65	46.50	46.65	11607978
## 2021-03-15	46.60	46.85	45.50	46.35	5842935
## 2021-03-16	46.20	46.70	45.60	45.70	4272070
## 2021-03-17	46.00	46.00	45.35	45.55	2501207
## 2021-03-18	45.15	45.60	45.15	45.15	5383499
## 2021-03-19	44.95	45.15	44.75	44.90	7185661
## 2021-03-22	45.00	45.00	44.50	44.65	3302011
## 2021-03-23	44.65	44.65	44.15	44.40	3531913
## 2021-03-24	44.30	44.30	43.75	43.95	6224791
## 2021-03-25	43.50	44.75	43.50	44.30	4995947
## 2021-03-26	44.35	44.50	43.85	43.95	2926033
## 2021-03-29	44.00	44.45	43.80	44.20	2863707
## 2021-03-30	44.50	44.90	44.10	44.60	6317055
## 2021-03-31	44.90	44.90	44.00	44.05	4987135
## 2021-04-01	44.05	44.35	43.80	44.00	4430855
## 2021-04-07	44.05	44.20	43.75	43.90	3735248
## 2021-04-08	43.60	44.15	43.60	44.05	3634367
## 2021-04-09	44.10	44.20	43.80	44.00	2913757
## 2021-04-12	44.00	44.00	43.65	43.90	3262522
## 2021-04-13	43.85	44.30	43.65	43.80	4088702
## 2021-04-14	44.00	44.20	43.80	44.10	2845027
## 2021-04-15	44.50	44.50	43.85	43.95	2279059
## 2021-04-16	43.90	44.55	43.90	44.15	5443467
## 2021-04-19	44.00	44.55	44.00	44.15	3209764
## 2021-04-20	44.15	44.20	43.90	44.00	2857155
## 2021-04-21	43.90	44.10	43.80	43.85	2461204
## 2021-04-22	43.70	43.95	43.65	43.70	3805602
## 2021-04-23	43.60	44.00	43.60	44.00	2925400
## 2021-04-26	43.95	44.05	43.70	43.75	2191731
## 2021-04-27	43.70	43.95	43.60	43.65	1760411
## 2021-04-28	43.50	43.65	43.00	43.30	4834967
## 2021-04-29	43.30	44.00	43.25	43.80	2990819
## 2021-04-30	43.60	43.85	43.20	43.30	4439647
## 2021-05-03	43.30	43.45	43.00	43.10	2666482
## 2021-05-04	43.25	43.45	43.10	43.20	2971978
## 2021-05-05	43.20	43.90	43.15	43.65	2304804
## 2021-05-06	44.00	44.00	43.70	43.90	3049937
## 2021-05-07	43.60	44.40	43.60	44.20	3380973

## 2021-05-10	44.00	44.70	43.95	44.60	6573756
## 2021-05-11	44.25	44.50	43.90	44.05	4762805
## 2021-05-12	44.00	44.10	43.65	44.00	3859014
## 2021-05-13	43.60	43.95	43.40	43.70	2337125
## 2021-05-14	44.20	44.20	43.70	43.85	1416390
## 2021-05-17	44.05	44.15	43.70	43.75	2079205
## 2021-05-18	43.75	44.30	43.75	44.20	2513575
## 2021-05-20	44.10	44.15	43.60	43.95	3146459
## 2021-05-21	43.95	44.05	43.70	43.85	2646472
## 2021-05-24	43.85	44.20	43.80	44.10	1612854
## 2021-05-25	44.10	44.45	44.10	44.35	2771656
## 2021-05-26	44.35	45.00	44.35	44.85	4637996
## 2021-05-27	44.85	45.00	44.15	44.15	10994759
## 2021-05-28	43.60	44.10	43.45	43.95	6512076
## 2021-05-31	43.80	44.00	43.20	43.20	3761253
## 2021-06-01	43.30	43.50	43.10	43.20	2341815
## 2021-06-02	43.15	43.70	43.15	43.25	2845387
## 2021-06-03	43.10	43.60	43.10	43.35	3813913
## 2021-06-04	43.20	43.50	43.15	43.30	4808027
## 2021-06-07	43.60	43.60	42.70	43.30	3290212
## 2021-06-08	43.25	43.45	43.00	43.10	3826880
## 2021-06-09	43.10	43.35	42.85	43.25	2376056
## 2021-06-10	43.30	43.50	43.20	43.30	2500896
## 2021-06-11	43.40	43.60	43.20	43.40	2813850
## 2021-06-15	43.25	43.60	43.15	43.15	2651431
## 2021-06-16	43.05	43.20	42.80	42.95	3463460
## 2021-06-17	42.85	43.25	42.80	43.05	2052541
## 2021-06-18	43.00	43.30	42.80	42.95	5513006
## 2021-06-21	42.80	43.05	42.30	42.45	4288785
## 2021-06-22	42.45	43.00	42.45	42.50	1638229
## 2021-06-23	42.60	42.95	42.40	42.70	2577284
## 2021-06-24	42.70	43.25	42.70	42.90	2196842
## 2021-06-25	42.90	43.10	42.75	42.85	2103891
## 2021-06-28	42.85	43.80	42.85	43.30	3001931
## 2021-06-29	43.30	43.55	43.30	43.30	3152548
## 2021-06-30	43.30	43.70	43.15	43.25	3050250
## 2021-07-02	43.45	43.50	42.90	43.30	3292501
## 2021-07-05	42.95	44.00	42.95	43.80	3367435
## 2021-07-06	43.80	44.00	43.50	43.60	2049940
## 2021-07-07	43.90	43.95	43.65	43.95	2675322
## 2021-07-08	44.05	44.65	43.90	44.10	5502465
## 2021-07-09	44.10	44.35	43.70	44.20	4101344
## 2021-07-12	44.45	44.80	44.00	44.35	3770708
## 2021-07-13	44.45	44.80	44.20	44.75	5256638
## 2021-07-14	44.75	44.75	44.40	44.75	2630359
## 2021-07-15	44.60	45.00	44.60	44.95	4556893
## 2021-07-16	44.65	44.95	44.65	44.65	3264580
## 2021-07-19	44.75	44.75	44.25	44.55	2976699
## 2021-07-20	44.55	45.75	44.50	45.60	8765963
## 2021-07-21	45.35	45.90	45.15	45.65	4342682
## 2021-07-22	45.80	47.00	45.65	47.00	8667343
## 2021-07-23	46.95	46.95	46.05	46.35	4199933
## 2021-07-26	46.00	47.00	45.95	46.65	5756644
## 2021-07-27	46.90	47.40	46.40	46.70	7172534
## 2021-07-28	47.10	47.10	46.25	46.60	6765065
## 2021-07-29	46.50	46.70	45.75	46.25	5171337

## 2021-07-30	46.00	46.80	45.85	46.05	5558000
## 2021-08-02	46.05	46.50	45.95	46.45	3407914
## 2021-08-03	46.25	46.45	45.85	46.25	2811142
## 2021-08-04	45.95	46.25	45.60	45.75	3729788
## 2021-08-05	45.60	45.75	45.10	45.35	2942840
## 2021-08-06	45.50	45.70	44.75	44.90	2440265
## 2021-08-09	44.90	45.45	44.70	44.85	1533861
## 2021-08-10	44.85	44.85	44.40	44.65	2177815
## 2021-08-11	44.50	45.05	44.45	44.80	3541818
## 2021-08-12	44.75	45.10	44.50	45.00	2307153
## 2021-08-13	45.10	45.90	45.00	45.50	3578595
## 2021-08-16	45.50	45.60	45.05	45.55	3204396
## 2021-08-17	45.75	45.90	45.30	45.40	2486185
## 2021-08-18	45.60	45.80	45.15	45.35	2364113
## 2021-08-19	45.20	45.35	44.65	45.15	2692019
## 2021-08-20	45.15	45.65	44.95	45.20	2295182
## 2021-08-23	45.90	45.90	45.00	45.35	2744142
## 2021-08-24	45.70	45.70	44.70	44.90	2285877
## 2021-08-25	44.30	44.60	43.80	44.25	3415227
## 2021-08-26	44.00	44.25	43.80	44.15	2536494
## 2021-08-27	43.95	44.35	43.85	44.15	1911235
## 2021-08-30	44.15	44.40	43.85	44.10	2093000
## 2021-08-31	44.10	44.25	43.80	43.80	4429757
## 2021-09-01	45.00	45.00	43.85	43.95	3846640
## 2021-09-02	43.95	44.10	43.70	43.85	2565983
## 2021-09-03	43.85	44.00	43.60	43.85	4258501
## 2021-09-06	43.85	44.00	43.60	43.75	3126446
## 2021-09-07	43.70	43.85	43.50	43.75	2704132
## 2021-09-08	43.60	43.75	43.50	43.60	2130351
## 2021-09-09	43.75	43.90	43.20	43.35	3550562
## 2021-09-10	43.65	44.00	43.35	44.00	2141507
## 2021-09-13	44.00	44.30	43.65	44.10	2240627
## 2021-09-14	44.10	44.10	43.20	43.55	2634917
## 2021-09-15	43.70	43.70	43.20	43.50	3198003
## 2021-09-16	43.70	43.75	43.30	43.60	3482804
## 2021-09-17	43.70	44.00	43.55	43.85	8746507
## 2021-09-20	43.30	43.75	42.25	42.50	7764153
## 2021-09-21	42.50	43.30	42.30	42.50	4553509
## 2021-09-23	43.30	43.30	42.55	42.85	2530286
## 2021-09-24	43.05	43.25	42.20	42.30	2464760
## 2021-09-27	42.30	42.60	41.85	42.05	2606771
## 2021-09-28	41.95	42.30	41.70	41.75	3569705
## 2021-09-29	41.40	42.30	41.10	42.10	3600295
## 2021-09-30	42.10	42.45	41.65	42.00	3936398
## 2021-10-04	41.50	41.60	41.10	41.20	3057429
## 2021-10-05	41.10	42.10	41.10	42.10	2786186
## 2021-10-06	42.10	42.15	41.40	41.90	2748661
## 2021-10-07	42.55	43.10	42.30	42.95	4222547
## 2021-10-08	42.95	42.95	42.25	42.50	3612342
## 2021-10-11	42.35	42.70	41.75	41.90	3733323
## 2021-10-12	41.70	42.35	41.60	42.05	2566777
## 2021-10-15	42.05	42.25	41.30	42.00	5900369
## 2021-10-18	42.35	42.40	41.80	42.05	2457788
## 2021-10-19	42.25	42.45	42.15	42.35	2107759
## 2021-10-20	42.40	42.50	42.10	42.30	2053124
## 2021-10-21	42.25	42.45	42.00	42.15	1940654

## 2021-10-22	42.35	42.50	42.00	42.20	2561394
## 2021-10-25	42.20	42.20	41.90	42.05	1931433
## 2021-10-26	42.25	42.35	42.00	42.00	1146726
## 2021-10-27	42.25	42.40	41.95	42.05	1789474
## 2021-10-28	42.10	42.30	42.00	42.15	3223933
## 2021-10-29	42.25	42.60	42.05	42.40	2994108
## 2021-11-01	42.40	42.60	42.00	42.25	1619026
## 2021-11-02	42.55	43.10	42.45	42.60	3286835
## 2021-11-03	42.50	42.80	42.20	42.40	2210601
## 2021-11-04	42.40	42.85	42.20	42.70	2640714
## 2021-11-05	42.65	43.10	42.50	42.95	3648642
## 2021-11-08	42.90	43.50	42.70	43.15	2816207
## 2021-11-09	43.50	43.50	42.95	43.15	1663300
## 2021-11-10	43.25	43.35	42.60	43.00	2007612
## 2021-11-11	43.30	43.30	42.80	42.80	2930777
## 2021-11-12	42.80	42.95	42.30	42.50	2338675
## 2021-11-15	42.35	42.50	42.15	42.35	2061010
## 2021-11-16	42.35	42.60	42.15	42.15	3255011
## 2021-11-17	42.20	42.25	41.85	41.95	3221324
## 2021-11-18	41.75	42.10	41.55	41.85	2743256
## 2021-11-19	41.80	42.10	41.65	41.75	1926976
## 2021-11-22	41.95	42.20	41.75	41.95	1826018
## 2021-11-23	41.80	42.20	41.80	41.95	2322175
## 2021-11-24	42.00	42.75	42.00	42.65	3515599
## 2021-11-25	42.60	42.65	42.25	42.55	2656209
## 2021-11-26	42.55	42.60	42.15	42.20	2352328
## 2021-11-29	42.50	42.50	42.00	42.00	2759909
## 2021-11-30	42.00	42.25	41.15	41.60	11756117
## 2021-12-01	41.65	41.65	40.80	41.05	4038265
## 2021-12-02	41.05	41.10	40.60	40.85	3916936
## 2021-12-03	41.00	41.25	40.70	41.20	3710422
## 2021-12-06	41.75	41.75	40.85	41.25	3438486
## 2021-12-07	41.25	41.60	40.90	41.50	2232591
## 2021-12-08	41.90	41.90	41.25	41.40	2075879
## 2021-12-09	41.40	41.70	41.35	41.60	2175459
## 2021-12-10	41.55	41.65	41.40	41.65	1708213
## 2021-12-13	41.40	41.90	41.25	41.35	3675836
## 2021-12-14	41.15	41.35	40.80	40.90	2428194
## 2021-12-15	40.85	41.25	40.50	41.00	3044081
## 2021-12-16	40.95	41.15	40.70	41.10	2540275
## 2021-12-17	41.20	41.20	40.65	40.80	3313281
## 2021-12-20	40.95	41.05	40.60	40.75	3415417
## 2021-12-21	41.10	41.45	40.80	41.00	1987085
## 2021-12-22	41.00	41.30	40.80	41.30	1784153
## 2021-12-23	41.40	41.40	41.00	41.05	1437418
## 2021-12-24	41.20	41.50	41.10	41.35	527018
## 2021-12-28	41.50	41.90	41.35	41.85	1643143
## 2021-12-29	42.00	42.05	41.80	42.05	1074845
## 2021-12-30	42.00	42.45	41.90	42.25	1755602
## 2021-12-31	42.20	42.35	41.80	41.85	1527691
## 2022-01-03	41.95	42.35	41.90	42.15	1761872
## 2022-01-04	42.10	42.35	41.50	42.30	2910078
## 2022-01-05	42.35	42.80	42.25	42.70	4416855
## 2022-01-06	42.75	42.80	42.00	42.35	1457827
## 2022-01-07	42.25	42.50	41.90	42.50	2066317
## 2022-01-10	42.60	43.00	42.50	42.75	2047198



## 2022-01-11	42.40	42.65	42.10	42.40	2687336
## 2022-01-12	42.40	42.70	42.25	42.70	1895827
## 2022-01-13	42.60	42.95	42.45	42.90	2832810
## 2022-01-14	42.90	43.15	42.50	43.05	2944762
## 2022-01-17	42.80	43.05	42.55	42.80	861193
## 2022-01-18	42.70	42.75	42.30	42.75	1617680
## 2022-01-19	42.60	42.75	42.35	42.75	1590091
## 2022-01-20	42.90	42.90	42.50	42.90	1421821
## 2022-01-21	42.90	43.10	42.70	43.05	1814903
## 2022-01-24	43.00	43.00	42.60	42.65	1507486
## 2022-01-25	42.65	42.65	42.05	42.25	2708009
## 2022-01-26	42.50	42.55	42.20	42.35	1873493
## 2022-01-27	42.00	42.90	42.00	42.80	3038632
## 2022-01-28	43.00	43.00	42.30	42.45	2818468
## 2022-01-31	42.20	42.20	42.20	42.20	0
## 2022-02-04	42.85	43.15	42.20	42.90	4139487
## 2022-02-07	42.90	42.95	42.35	42.45	1956159
## 2022-02-08	42.45	42.75	42.45	42.55	2172345
## 2022-02-09	42.65	43.00	42.55	42.90	2844167
## 2022-02-10	43.15	43.15	42.65	43.00	1701098
## 2022-02-11	43.00	43.00	42.50	42.70	2811187
## 2022-02-14	42.55	42.75	42.40	42.75	1768438
## 2022-02-15	42.70	42.95	42.20	42.95	2439707
## 2022-02-16	42.95	43.10	42.60	42.80	1886565
## 2022-02-17	42.80	43.05	42.50	42.80	1886194
## 2022-02-18	42.75	43.00	42.65	42.80	2015802
## 2022-02-21	42.80	43.00	42.50	42.90	1479756
## 2022-02-22	42.85	42.85	41.90	42.10	2915170
## 2022-02-23	42.20	42.20	41.70	41.80	2562057
## 2022-02-24	41.40	41.75	41.00	41.40	3424130
## 2022-02-25	41.40	41.40	41.10	41.10	2527159
## 2022-02-28	41.50	41.50	40.20	40.45	8112019
## 2022-03-01	40.20	40.65	40.10	40.25	3197963
## 2022-03-02	40.00	40.30	39.70	39.80	4398092
## 2022-03-03	39.95	40.80	39.75	40.40	2544756
## 2022-03-04	40.35	40.50	40.00	40.30	2736573
## 2022-03-07	40.00	40.25	39.35	39.75	3461363
## 2022-03-08	39.95	40.50	39.70	40.25	3725854
## 2022-03-09	40.05	40.35	39.70	40.00	2832127
## 2022-03-10	40.80	40.80	40.00	40.45	3461468
## 2022-03-11	40.60	41.35	40.15	41.00	7621492
## 2022-03-14	40.90	41.20	40.60	41.20	4455495
## 2022-03-15	41.00	41.00	40.00	40.20	5387330
## 2022-03-16	40.35	40.75	40.00	40.15	5933596
## 2022-03-17	40.60	41.20	40.20	41.10	3846165
## 2022-03-18	41.35	41.85	41.15	41.65	5621039
## 2022-03-21	41.85	42.20	41.45	42.10	4151519
## 2022-03-22	42.15	42.15	41.50	41.85	3063161
## 2022-03-23	41.80	41.95	41.20	41.90	2913155
## 2022-03-24	41.85	42.00	41.30	42.00	3296717
## 2022-03-25	41.50	42.25	41.50	42.05	2918481
## 2022-03-28	42.15	42.50	41.65	42.40	3233910
## 2022-03-29	42.25	42.30	41.80	42.30	2332423
## 2022-03-30	42.55	42.80	42.20	42.45	3712111
## 2022-03-31	42.45	42.60	42.10	42.35	3930099
## 2022-04-01	42.60	42.65	42.10	42.35	2028332

## 2022-04-04	42.35	42.35	42.00	42.15	2560391
## 2022-04-06	42.50	42.55	41.85	42.00	3755899
## 2022-04-07	41.70	42.20	41.55	41.60	4007877
## 2022-04-08	41.60	42.10	41.60	42.05	2648139
## 2022-04-11	41.70	42.10	41.70	41.85	2344017
## 2022-04-12	42.00	42.10	41.50	41.70	3121813
## 2022-04-13	41.50	41.90	41.40	41.65	2548928
## 2022-04-14	42.00	42.00	41.65	41.75	1985852
## 2022-04-19	42.05	42.30	41.55	42.20	3191719
## 2022-04-20	42.20	42.50	42.05	42.15	1799244
## 2022-04-21	42.60	42.60	42.10	42.50	2632981
## 2022-04-22	42.60	42.75	41.80	42.25	2426883
## 2022-04-25	42.00	42.30	41.55	42.10	2854633
## 2022-04-26	41.85	42.50	41.75	42.25	3358392
## 2022-04-27	42.20	42.20	41.45	41.80	2717183
## 2022-04-28	41.80	42.10	41.50	42.05	2800505
## 2022-04-29	42.05	42.25	41.75	41.85	4112379
## 2022-05-03	42.40	42.50	41.95	42.35	4642012
## 2022-05-04	42.60	43.00	42.50	42.85	3517072
## 2022-05-05	43.00	43.40	42.80	42.90	4153886
## 2022-05-06	42.90	43.15	42.60	42.75	4909161
## 2022-05-10	42.75	42.75	41.70	42.45	4743952
## 2022-05-11	42.55	43.15	42.00	43.15	4813317
## 2022-05-12	43.00	43.15	42.70	43.00	3963162
## 2022-05-13	43.00	43.00	42.30	42.80	4936842
## 2022-05-16	43.05	43.20	42.75	42.90	1674415
## 2022-05-17	43.00	43.10	42.35	42.60	4534947
## 2022-05-18	42.75	42.90	42.40	42.60	3604633
## 2022-05-19	42.60	42.90	42.30	42.90	4418907
## 2022-05-20	43.20	43.70	43.00	43.60	4849631
## 2022-05-23	43.60	43.60	43.30	43.50	2355860
## 2022-05-24	43.65	43.65	43.15	43.35	2443474
## 2022-05-25	43.55	43.65	43.15	43.40	3352021
## 2022-05-26	43.55	43.65	43.25	43.60	3874308
## 2022-05-27	42.65	43.05	42.50	43.00	3175441
## 2022-05-30	43.00	43.25	42.85	42.95	2129777
## 2022-05-31	42.90	42.90	42.10	42.35	9736620
## 2022-06-01	42.65	43.10	42.45	42.50	3143952
## 2022-06-02	42.20	42.75	42.05	42.20	1898069
## 2022-06-06	42.50	42.70	41.90	42.60	2812072
## 2022-06-07	42.10	42.40	41.95	42.30	4007107
## 2022-06-08	42.25	42.55	42.10	42.20	3423112
## 2022-06-09	41.65	42.05	41.50	41.85	4047292
## 2022-06-10	41.95	42.00	41.50	41.70	2700904
## 2022-06-13	41.50	42.00	41.15	41.50	3321193
## 2022-06-14	41.75	41.75	41.20	41.50	1925564
## 2022-06-15	41.20	41.45	40.80	41.15	2692121
## 2022-06-16	41.60	41.60	40.80	41.00	2844782
## 2022-06-17	40.85	41.30	40.65	40.70	3818271
## 2022-06-20	40.80	41.00	40.65	40.80	1355806
## 2022-06-21	40.75	41.10	40.70	41.10	2341553
## 2022-06-22	41.10	41.45	40.75	40.85	1604379
## 2022-06-23	41.30	41.30	40.80	40.80	1600390
## 2022-06-24	40.80	41.30	40.75	41.00	1931628
## 2022-06-27	41.40	42.00	41.10	41.35	2682734
## 2022-06-28	41.40	41.80	41.20	41.70	3307119

## 2022-06-29	41.60	41.60	41.05	41.35	2433836
## 2022-06-30	41.15	41.50	40.90	41.00	3032632
## 2022-07-04	41.00	41.15	40.20	40.85	2681153
## 2022-07-05	41.05	41.10	40.80	40.95	1667524
## 2022-07-06	40.65	41.05	40.50	41.00	2961648
## 2022-07-07	40.95	41.20	40.80	41.20	2536325
## 2022-07-08	41.40	41.50	41.10	41.40	2256357
## 2022-07-11	40.80	41.10	40.80	41.05	1671447
## 2022-07-12	41.40	41.80	41.05	41.55	4096743
## 2022-07-13	41.40	41.60	41.20	41.40	2592650
## 2022-07-14	41.60	41.80	41.20	41.65	4986305
## 2022-07-15	41.45	41.70	41.10	41.50	2336670
## 2022-07-18	41.80	41.90	41.30	41.85	2694733
## 2022-07-19	41.65	41.70	41.20	41.35	2044325
## 2022-07-20	41.35	41.65	41.30	41.45	2204314
## 2022-07-21	41.45	41.45	40.60	40.80	2862941
## 2022-07-22	40.65	41.00	40.65	40.85	2026476
## 2022-07-25	40.95	41.15	40.70	41.15	2146789
## 2022-07-26	41.10	41.20	40.85	41.05	1843586
## 2022-07-27	41.05	41.20	40.85	41.10	1194897
## 2022-07-28	40.90	41.30	40.80	41.25	1779438
## 2022-07-29	41.35	41.60	41.15	41.50	3301722
## 2022-08-01	41.70	41.70	41.05	41.15	2107311
## 2022-08-02	40.80	41.10	40.65	40.85	2429626
## 2022-08-03	41.10	41.10	40.65	40.85	2637867
## 2022-08-04	40.85	41.15	40.50	40.90	2910822
## 2022-08-05	40.90	41.20	40.80	41.10	1577548
## 2022-08-08	41.20	41.70	40.95	41.60	2470880
## 2022-08-09	41.20	41.85	40.80	41.45	2256462
## 2022-08-10	41.35	41.45	41.00	41.25	1670631
## 2022-08-11	41.50	41.95	41.20	41.45	2870457
## 2022-08-12	41.80	42.20	41.65	42.00	3290253
## 2022-08-15	42.00	42.00	41.50	41.70	1593397
## 2022-08-16	41.80	41.85	41.35	41.80	2614319
## 2022-08-17	41.90	42.30	41.80	41.95	1623635
## 2022-08-18	42.30	42.30	41.45	41.70	2153404
## 2022-08-19	41.70	41.90	41.45	41.60	2287745
## 2022-08-22	41.25	41.55	41.10	41.40	2042801
## 2022-08-23	41.40	41.40	40.85	41.00	3047911
## 2022-08-24	40.50	40.60	39.80	40.20	3161409
## 2022-08-25	40.25	40.40	40.00	40.30	1620821
## 2022-08-26	40.20	40.55	40.20	40.35	1442749
## 2022-08-29	40.15	40.20	39.85	40.00	1363701
## 2022-08-30	40.35	40.40	39.70	40.00	2336916
## 2022-08-31	39.85	40.40	39.75	40.25	4986306
## 2022-09-01	39.95	40.10	39.65	39.70	2950558
## 2022-09-02	40.00	40.00	39.55	39.70	2481283
## 2022-09-05	39.50	39.70	39.25	39.65	2191517
## 2022-09-06	39.65	39.75	39.45	39.55	998607
## 2022-09-07	39.45	39.75	39.00	39.70	2919445
## 2022-09-08	39.55	39.85	39.45	39.60	2739505
## 2022-09-09	39.30	40.20	39.30	40.10	1583853
## 2022-09-13	39.90	40.55	39.85	40.50	1894492
## 2022-09-14	40.15	40.30	39.80	40.15	2459773
## 2022-09-15	40.15	40.20	39.90	40.15	1398351
## 2022-09-16	39.90	40.40	39.85	40.40	7064182

## 2022-09-19	40.40	40.40	39.95	40.10	1924135
## 2022-09-20	40.00	40.40	39.95	40.30	2538735
## 2022-09-21	40.40	40.40	39.85	40.05	2522648
## 2022-09-22	39.50	39.70	39.20	39.45	1996579
## 2022-09-23	39.20	39.30	38.75	38.95	3004511
## 2022-09-26	38.85	38.95	38.25	38.40	3346474
## 2022-09-27	38.00	38.35	37.05	37.15	5906204
## 2022-09-28	37.00	37.00	35.30	35.65	7653654
## 2022-09-29	35.80	36.25	35.55	35.60	4939463
## 2022-09-30	35.70	36.25	35.70	36.05	4190944
## 2022-10-03	35.70	36.20	35.50	35.60	2584039
## 2022-10-05	36.95	36.95	36.00	36.45	4681151
## 2022-10-06	36.45	36.75	36.15	36.50	3209419
## 2022-10-07	36.25	36.40	35.90	36.05	2067356
## 2022-10-10	35.60	35.85	35.00	35.25	2897522
## 2022-10-11	35.25	35.65	35.10	35.10	2347730
## 2022-10-12	35.20	35.20	34.35	34.55	3794969
## 2022-10-13	34.55	34.80	34.20	34.35	3043793
## 2022-10-14	34.65	34.80	34.10	34.20	3587627
## 2022-10-17	34.20	34.65	34.00	34.40	2036228
## 2022-10-18	34.85	34.85	34.40	34.75	2549873
## 2022-10-19	34.90	35.60	34.75	34.90	3394611
## 2022-10-20	34.90	34.95	34.35	34.65	2216368
## 2022-10-21	34.90	34.90	33.70	34.10	4366722
## 2022-10-24	34.10	34.25	33.45	33.60	5295724
## 2022-10-25	34.20	34.20	33.15	33.85	4493678
## 2022-10-26	34.00	34.85	34.00	34.55	4629999
## 2022-10-27	34.65	34.90	34.40	34.70	3047070
## 2022-10-28	34.80	35.15	34.20	34.45	3666084
## 2022-10-31	34.30	34.90	33.90	34.55	4112155
## 2022-11-01	34.85	35.05	34.40	34.90	3281039
## 2022-11-02	35.00	35.70	34.75	35.30	3192790
## 2022-11-03	35.30	35.40	34.35	34.50	4043925
## 2022-11-04	34.45	35.20	34.20	34.80	4658528
## 2022-11-07	34.50	36.25	34.50	35.90	4475933
## 2022-11-08	35.90	36.15	35.70	36.00	2329618
## 2022-11-09	35.90	36.00	35.40	35.80	2325424
## 2022-11-10	35.85	35.85	35.20	35.65	2121886
## 2022-11-11	36.70	37.20	36.15	36.90	3635259
## 2022-11-14	37.50	37.55	36.80	36.90	2318785
## 2022-11-15	37.15	37.55	37.00	37.45	3466127
## 2022-11-16	37.70	38.20	37.40	37.90	4463222
## 2022-11-17	38.00	38.55	37.80	38.30	4179979
## 2022-11-18	38.30	38.30	37.25	37.45	3373946
## 2022-11-21	37.10	37.80	36.45	37.75	2361166
## 2022-11-22	37.75	38.05	37.50	37.80	2172616
## 2022-11-23	38.05	38.05	37.55	38.00	1717468
## 2022-11-24	38.00	38.40	37.40	37.60	2242277
## 2022-11-25	37.60	37.85	36.90	37.25	2045950
## 2022-11-28	36.95	37.20	36.30	37.05	1925613
## 2022-11-29	36.70	37.50	36.70	37.25	2899018
## 2022-11-30	37.15	37.55	37.10	37.55	6903031
## 2022-12-01	37.85	37.95	37.45	37.55	4053709
## 2022-12-02	37.80	37.80	37.10	37.15	3075759
## 2022-12-05	37.25	37.65	36.20	36.55	9168585
## 2022-12-06	36.30	37.30	36.30	37.30	4381143

## 2022-12-07	37.45	37.90	37.05	37.10	2977316
## 2022-12-08	37.30	37.85	36.80	37.65	3716029
## 2022-12-09	37.80	38.85	37.65	38.70	5052070
## 2022-12-12	38.50	38.70	38.05	38.65	2371300
## 2022-12-13	38.85	39.95	38.65	39.70	4205508
## 2022-12-14	40.15	40.50	39.80	39.85	3357062
## 2022-12-15	40.00	40.25	39.55	39.95	2250227
## 2022-12-16	39.85	40.40	39.35	40.30	5349115
## 2022-12-19	40.00	40.30	39.75	40.15	1336566
## 2022-12-20	40.15	40.15	39.65	40.10	1970230
## 2022-12-21	40.25	40.45	39.90	40.35	1669660
## 2022-12-22	40.55	41.25	40.05	41.20	4057090
## 2022-12-23	40.55	41.15	40.55	40.90	1385478
## 2022-12-28	41.25	41.75	40.90	41.20	3762660
## 2022-12-29	41.20	41.45	40.85	41.15	1239793
## 2022-12-30	41.30	41.60	41.15	41.35	1528568
## 2023-01-03	41.35	42.15	40.55	41.80	3560227
## 2023-01-04	42.05	42.15	41.55	42.00	4569308
## 2023-01-05	42.00	42.00	41.60	41.60	2845457
## 2023-01-06	41.95	41.95	41.40	41.75	2513736
## 2023-01-09	42.10	42.20	41.35	41.50	4667551
## 2023-01-10	41.85	42.00	41.45	41.60	2948317
## 2023-01-11	41.50	41.85	41.10	41.35	2995469
## 2023-01-12	41.25	41.80	41.25	41.70	1819007
## 2023-01-13	42.05	42.15	41.60	41.70	2203136
## 2023-01-16	41.75	42.75	41.55	42.25	2810942
## 2023-01-17	42.25	42.25	41.50	41.65	2582855
## 2023-01-18	41.55	42.20	41.50	42.20	1906646
## 2023-01-19	42.20	42.40	41.80	42.40	1974798
## 2023-01-20	42.40	42.50	41.80	42.45	3384579
## 2023-01-26	42.80	42.80	42.20	42.35	2299250
## 2023-01-27	42.15	42.35	42.00	42.10	1962845
## 2023-01-30	42.45	43.00	42.30	42.90	4164725
## 2023-01-31	42.75	42.90	41.80	41.90	2734980
## 2023-02-01	41.95	42.30	41.80	42.30	2853850
## 2023-02-02	42.25	42.60	42.05	42.20	2007107
## 2023-02-03	42.60	42.60	41.70	42.25	1455411
## 2023-02-06	42.15	42.25	41.25	41.75	1413689
## 2023-02-07	41.85	41.90	41.25	41.60	1629150
## 2023-02-08	41.35	42.00	41.35	41.80	1517284
## 2023-02-09	41.80	41.80	41.40	41.70	1457946
## 2023-02-10	41.50	41.95	41.40	41.55	1702004
## 2023-02-13	41.45	41.85	41.10	41.50	1621982
## 2023-02-14	41.65	41.65	41.20	41.50	1716187
## 2023-02-15	41.35	41.35	40.00	40.10	4127264
## 2023-02-16	40.35	40.40	39.90	40.35	2934542
## 2023-02-17	40.15	40.45	39.80	40.10	1827437
## 2023-02-20	40.25	40.25	39.85	40.05	1317821
## 2023-02-21	40.05	40.40	39.90	40.20	1355181
## 2023-02-22	40.20	40.35	39.85	40.10	1455619
## 2023-02-23	40.30	40.30	39.70	39.85	1782817
## 2023-02-24	39.70	40.10	39.60	39.90	1913138
## 2023-02-27	39.75	39.85	39.50	39.70	1762013
## 2023-02-28	39.85	40.70	39.15	39.55	4709394
## 2023-03-01	39.45	40.30	39.45	40.05	2410381
## 2023-03-02	39.80	40.35	39.70	40.05	1524917

## 2023-03-03	40.25	40.60	39.95	40.40	2187657
## 2023-03-06	40.40	41.00	40.40	40.95	2534249
## 2023-03-07	40.85	41.05	40.50	40.65	2308002
## 2023-03-08	40.25	40.60	40.15	40.25	1835938
## 2023-03-09	40.25	40.45	39.95	40.30	1658353
## 2023-03-10	40.00	40.35	39.05	39.85	4539853
## 2023-03-13	39.75	40.00	39.55	39.80	3116885
## 2023-03-14	39.65	39.85	39.10	39.10	2778610
## 2023-03-15	39.00	39.35	38.90	39.00	2335460
## 2023-03-16	38.80	39.00	38.00	38.00	4894519
## 2023-03-17	38.45	38.95	38.00	38.40	5989681
## 2023-03-20	38.15	38.30	37.65	37.95	2931986
## 2023-03-21	37.95	38.35	37.75	37.85	3285871
## 2023-03-22	37.65	38.40	37.65	38.15	4439487
## 2023-03-23	38.40	38.40	37.75	38.05	2865171
## 2023-03-24	37.90	38.15	37.80	37.80	1910936
## 2023-03-27	37.80	38.25	37.75	37.80	1582468
## 2023-03-28	37.85	38.05	37.60	37.75	1504866
## 2023-03-29	37.65	38.10	37.65	37.90	2172243
## 2023-03-30	37.85	38.15	37.80	37.95	1610050
## 2023-03-31	37.95	38.35	37.70	37.85	3575073
## 2023-04-03	37.80	38.20	37.80	38.10	2272042
## 2023-04-04	38.00	38.70	38.00	38.35	2118867
## 2023-04-06	38.10	38.75	38.10	38.60	3586354
## 2023-04-11	39.05	39.30	38.80	39.10	4367432
## 2023-04-12	38.90	39.20	38.65	38.80	2603177
## 2023-04-13	38.55	38.95	38.55	38.95	2953701
## 2023-04-14	39.10	39.20	38.80	39.00	1698312
## 2023-04-17	38.70	39.15	38.40	39.15	2965524
## 2023-04-18	38.65	39.10	38.65	38.85	1155048
## 2023-04-19	38.90	39.05	38.65	38.85	1957291
## 2023-04-20	39.00	39.00	38.55	38.65	1826925
## 2023-04-21	38.65	39.05	38.55	38.70	1579338
## 2023-04-24	38.60	38.80	38.20	38.30	1558139
## 2023-04-25	38.30	38.40	38.00	38.15	1362270
## 2023-04-26	38.00	38.75	38.00	38.55	1644242
## 2023-04-27	38.30	38.90	38.25	38.80	2034379
## 2023-04-28	38.65	39.25	38.55	39.15	2693201
## 2023-05-02	39.40	40.00	39.20	39.50	2665598
## 2023-05-03	39.15	39.60	39.15	39.50	3047317
## 2023-05-04	39.35	39.85	39.20	39.60	2077245
## 2023-05-05	39.65	40.15	39.65	39.90	1855918
## 2023-05-08	39.90	40.20	39.60	39.70	2633565
## 2023-05-09	39.70	40.10	39.35	39.65	3507288
## 2023-05-10	39.65	39.80	39.45	39.60	3785240
## 2023-05-11	39.75	39.85	39.45	39.50	2907375
## 2023-05-12	39.30	39.35	38.55	38.70	3522190
## 2023-05-15	38.70	39.35	38.50	39.25	1737123
## 2023-05-16	39.45	39.45	38.80	38.85	1940850
## 2023-05-17	38.85	39.05	38.30	38.40	2032048
## 2023-05-18	38.65	38.65	38.15	38.40	1782643
## 2023-05-19	38.40	38.70	38.20	38.55	1729163
## 2023-05-22	38.55	38.90	38.45	38.80	1951334
## 2023-05-23	38.95	39.10	38.25	38.50	2440583
## 2023-05-24	38.30	38.60	38.05	38.40	3282184
## 2023-05-25	38.20	38.40	37.85	38.15	2383316

## 2023-05-29	37.30	37.60	36.50	36.50	3210019
## 2023-05-30	36.50	36.70	35.80	36.10	3308103
## 2023-05-31	35.85	36.25	35.50	36.05	8374592
## 2023-06-01	36.15	36.25	35.50	35.75	4039445
## 2023-06-02	36.00	36.80	36.00	36.50	3853993
## 2023-06-05	36.30	37.05	36.30	37.00	2987675
## 2023-06-06	37.00	37.05	36.55	36.65	1491987
## 2023-06-07	36.70	37.00	36.60	36.85	1991620
## 2023-06-08	36.90	37.20	36.75	37.00	1038616
## 2023-06-09	37.00	37.10	36.75	37.05	1360745
## 2023-06-12	37.05	37.50	36.95	37.25	1163327
## 2023-06-13	37.25	37.65	36.85	37.20	2395166
## 2023-06-14	36.85	37.05	36.50	36.80	1194366
## 2023-06-15	37.00	37.20	36.65	36.80	2243110
## 2023-06-16	36.80	37.25	36.65	36.65	5777411
## 2023-06-19	36.70	37.15	36.70	37.10	1224746
## 2023-06-20	36.80	36.95	36.50	36.80	1545983
## 2023-06-21	36.70	36.75	36.15	36.25	2970669
## 2023-06-23	36.05	36.45	35.80	36.20	2347864
## 2023-06-26	36.00	36.30	35.95	36.05	3439644
## 2023-06-27	35.90	36.30	35.90	36.20	1692999
## 2023-06-28	36.20	36.60	36.15	36.55	2279209
## 2023-06-29	36.55	36.55	35.90	36.20	2560366
## 2023-06-30	36.20	36.45	35.95	36.00	3597563
## 2023-07-03	36.10	36.45	36.00	36.15	1748425
## 2023-07-04	36.15	36.15	35.80	36.10	1153893
## 2023-07-05	36.10	36.15	35.70	35.75	1261784
## 2023-07-06	35.70	35.90	35.00	35.30	2820949
## 2023-07-07	35.10	35.30	35.00	35.00	1429380
## 2023-07-10	35.30	35.40	34.55	34.55	2912871
## 2023-07-11	34.55	35.10	34.50	34.95	2128519
## 2023-07-12	34.95	35.25	34.70	35.00	1476975
## 2023-07-13	35.00	35.85	34.90	35.60	2296829
## 2023-07-14	35.50	35.95	35.30	35.70	1691684
## 2023-07-18	35.70	35.70	34.65	34.95	2531017
## 2023-07-19	34.70	35.10	34.70	34.95	1131016
## 2023-07-20	34.95	35.45	34.95	35.20	1324409
## 2023-07-21	35.55	35.85	35.20	35.70	2184453
## 2023-07-24	35.50	35.55	34.80	35.15	2067603
## 2023-07-25	35.50	35.70	35.20	35.50	2559529
## 2023-07-26	35.50	36.20	35.50	35.65	1984591
## 2023-07-27	35.60	36.20	35.55	36.10	2586744
## 2023-07-28	35.80	36.40	35.65	36.20	2414790
## 2023-07-31	36.00	36.20	35.75	35.85	3411622
## 2023-08-01	35.85	35.95	35.70	35.90	2274518
## 2023-08-02	35.90	36.00	35.25	35.30	1883970
## 2023-08-03	35.20	35.45	35.10	35.20	1884031
## 2023-08-04	35.30	35.60	34.80	34.80	2341314
## 2023-08-07	34.80	35.20	34.70	35.10	1304498
## 2023-08-08	35.00	35.05	34.65	34.75	1743769
## 2023-08-09	34.80	35.35	34.75	35.15	1316402
## 2023-08-10	35.00	35.30	34.85	35.25	1424761
## 2023-08-11	35.40	35.45	34.75	35.00	2698332
## 2023-08-14	35.00	35.00	34.35	34.50	1943363
## 2023-08-15	34.50	34.55	34.05	34.10	1669894
## 2023-08-16	34.00	34.10	33.60	33.75	2372455

## 2023-08-17	33.50	33.65	33.00	33.35	2941144
## 2023-08-18	33.30	33.35	32.85	32.90	2907857
## 2023-08-21	32.90	32.95	32.10	32.15	3727585
## 2023-08-22	32.20	32.80	32.00	32.55	2730144
## 2023-08-23	32.00	32.30	31.90	32.00	2164321
## 2023-08-24	31.95	32.50	31.95	32.10	1738610
## 2023-08-25	32.15	32.30	31.80	31.90	1852721
## 2023-08-28	32.20	32.35	32.00	32.00	1275349
## 2023-08-29	32.10	32.80	32.00	32.75	2786533
## 2023-08-30	32.75	33.15	32.70	32.75	2603631
## 2023-08-31	32.95	33.15	32.60	32.75	8131889
## 2023-09-04	33.00	33.35	32.85	33.10	2502754
## 2023-09-05	33.10	33.10	32.00	32.10	1998849
## 2023-09-06	32.10	32.25	31.70	32.25	2041159
## 2023-09-07	32.15	32.25	31.90	32.05	1459089
## 2023-09-11	32.05	32.05	30.95	31.05	5193915
## 2023-09-12	31.05	31.15	30.40	31.15	2812422
## 2023-09-13	31.20	31.30	31.00	31.25	2605869
## 2023-09-14	31.25	31.45	30.50	30.85	2772725
## 2023-09-15	31.00	31.20	30.85	31.00	4091772
## 2023-09-18	31.00	31.00	30.60	30.70	2155635
## 2023-09-19	30.70	31.15	30.70	31.05	1294607
## 2023-09-20	31.15	31.30	30.80	30.85	1536101
## 2023-09-21	30.85	31.00	30.30	30.45	1806389
## 2023-09-22	30.45	30.70	30.30	30.60	1490664
## 2023-09-25	30.40	30.75	30.30	30.30	1750640
## 2023-09-26	30.30	30.45	30.05	30.20	2092755
## 2023-09-27	30.20	30.45	30.10	30.45	1801072
## 2023-09-28	30.55	30.70	30.15	30.20	1912531
## 2023-09-29	30.50	31.15	30.50	31.00	4680008
## 2023-10-03	30.85	31.00	30.00	30.15	3698696
## 2023-10-04	30.20	30.20	29.65	29.95	1986800
## 2023-10-05	29.95	30.45	29.80	30.25	2009829
## 2023-10-06	30.45	30.80	30.35	30.60	1887692
## 2023-10-09	30.60	30.65	30.05	30.30	970948
## 2023-10-10	30.65	30.85	30.45	30.55	1852436
## 2023-10-11	30.85	31.15	30.75	31.10	2442515
## 2023-10-12	31.35	31.55	31.10	31.45	2119589
## 2023-10-13	31.40	31.40	30.45	30.60	1909828
## 2023-10-16	30.60	30.70	30.35	30.55	1242462
## 2023-10-17	30.85	30.90	30.30	30.70	1378273
## 2023-10-18	30.60	31.05	30.35	30.65	2903509
## 2023-10-19	30.60	30.60	29.95	29.95	2599687
## 2023-10-20	29.95	30.30	29.55	30.10	2883641
## 2023-10-24	30.00	30.10	29.80	29.85	2725284
## 2023-10-25	30.50	30.50	29.55	29.80	1974273
## 2023-10-26	29.80	29.80	28.00	28.50	6380489
## 2023-10-27	28.60	29.60	28.60	29.55	3268044
## 2023-10-30	29.55	29.95	29.50	29.75	1709083
## 2023-10-31	29.75	30.00	29.15	29.25	2285173
## 2023-11-01	29.45	29.70	29.20	29.45	1890937
## 2023-11-02	29.85	30.30	29.45	30.10	2616165
## 2023-11-03	30.10	30.55	30.10	30.40	2706780
## 2023-11-06	30.55	30.70	30.25	30.30	2017696
## 2023-11-07	30.20	30.30	29.35	29.50	2355290
## 2023-11-08	29.50	29.75	29.40	29.45	1780390



## 2023-11-09	29.45	29.45	29.05	29.10	2974459
## 2023-11-10	29.05	29.30	28.60	28.65	2476092
## 2023-11-13	29.00	29.25	28.65	29.20	1533825
## 2023-11-14	29.70	29.70	29.05	29.35	1778450
## 2023-11-15	30.00	30.55	29.75	30.45	3743031
## 2023-11-16	30.45	30.45	29.90	30.10	2246242
## 2023-11-17	29.80	30.10	29.40	29.60	2066328
## 2023-11-20	29.60	30.10	29.60	30.00	1825941
## 2023-11-21	30.00	30.40	29.50	29.65	2787531
## 2023-11-22	29.95	30.00	29.55	29.80	2414080
## 2023-11-23	30.00	30.00	29.55	29.90	1670017
## 2023-11-24	29.90	29.90	29.50	29.65	1227674
## 2023-11-27	29.80	29.80	29.20	29.35	1804179
## 2023-11-28	29.10	29.40	28.90	29.00	2227748
## 2023-11-29	29.15	29.15	27.70	28.10	5088442
## 2023-11-30	28.10	28.30	27.60	28.00	18505019
## 2023-12-01	28.00	28.25	27.70	27.95	5908532
## 2023-12-04	28.40	28.50	27.85	27.90	3444487
## 2023-12-05	28.25	28.25	27.30	27.50	3332174
## 2023-12-06	27.10	28.20	27.10	28.15	2507069
## 2023-12-07	27.85	28.05	27.50	27.90	4135331
## 2023-12-08	27.90	28.30	27.70	27.90	2860491
## 2023-12-11	27.40	28.25	27.40	28.05	1657044
## 2023-12-12	28.05	28.55	27.90	28.45	2704905
## 2023-12-13	28.15	28.70	28.15	28.50	2584947
## 2023-12-14	28.80	29.05	28.50	28.85	4140414
## 2023-12-15	29.45	29.80	29.00	29.80	9126741
## 2023-12-18	29.70	29.70	28.95	29.05	3512504
## 2023-12-19	29.00	29.40	28.80	29.30	2234555
## 2023-12-20	29.40	29.70	29.20	29.35	2963093
## 2023-12-21	29.20	29.60	29.20	29.40	2325549
## 2023-12-22	29.70	29.90	29.50	29.65	2425248
## 2023-12-27	29.80	29.95	29.55	29.80	1722904
## 2023-12-28	29.65	30.15	29.35	30.15	2925426
## 2023-12-29	30.15	30.30	29.80	30.30	3024157
## 2024-01-02	30.10	30.35	29.80	29.85	1178242
## 2024-01-03	29.70	29.85	28.35	28.60	4229219
## 2024-01-04	28.60	28.60	27.85	28.25	3263934
## 2024-01-05	28.50	28.50	27.95	28.10	2985323
## 2024-01-08	28.25	28.35	27.65	27.95	1868104
## 2024-01-09	27.95	28.10	27.80	27.80	1295316
## 2024-01-10	27.90	27.90	27.30	27.50	2924559
## 2024-01-11	27.50	28.00	27.40	27.75	1700564
## 2024-01-12	27.70	27.90	27.50	27.75	1434459
## 2024-01-15	27.70	27.70	27.70	27.70	0
## 2024-01-16	27.65	27.65	27.05	27.10	2436215
## 2024-01-17	27.10	27.10	25.40	25.90	6320242
## 2024-01-18	25.90	26.10	25.70	25.85	3142332
## 2024-01-19	25.95	26.15	25.50	25.85	4332092
## 2024-01-22	26.00	26.15	25.20	25.60	4724853
## 2024-01-23	25.60	26.25	25.40	26.00	3765723
## 2024-01-24	26.00	26.55	25.60	26.55	4125996
## 2024-01-25	26.55	26.55	26.05	26.20	4527912
## 2024-01-26	26.30	26.40	25.85	25.90	3275924
## 2024-01-29	26.30	26.55	26.00	26.35	3451239
## 2024-01-30	26.35	26.35	25.15	25.60	6392127

## 2024-01-31	25.60	25.60	25.25	25.40	3596191
## 2024-02-01	25.40	25.55	25.10	25.25	3773195
## 2024-02-02	25.55	25.95	25.40	25.60	4648134
## 2024-02-05	25.35	26.05	25.10	25.75	3267604
## 2024-02-06	25.95	26.20	25.75	26.15	3520835
## 2024-02-07	26.20	26.50	26.10	26.25	4296884
## 2024-02-08	26.30	26.45	25.60	25.75	3423092
## 2024-02-09	25.55	25.55	25.55	25.55	0
## 2024-02-14	25.30	25.50	24.25	25.15	8737426
## 2024-02-15	24.90	25.30	24.70	24.90	4493382
## 2024-02-16	25.00	25.50	24.90	25.40	4651612
## 2024-02-19	25.45	25.75	25.15	25.20	2349517
## 2024-02-20	25.20	25.90	25.15	25.90	3421806
## 2024-02-21	25.90	26.70	25.85	26.55	5797158
## 2024-02-22	26.50	27.00	26.35	27.00	3885124
## 2024-02-23	27.00	27.00	26.25	26.35	3651562
## 2024-02-26	26.35	26.55	26.05	26.40	4069625
## 2024-02-27	26.35	26.70	25.85	26.60	4054248
## 2024-02-28	26.60	27.00	26.35	26.65	4484504
## 2024-02-29	26.25	26.55	26.00	26.00	11185850
## 2024-03-01	26.00	26.10	25.65	25.70	4783959
## 2024-03-04	25.80	25.95	25.05	25.30	5677263
## 2024-03-05	25.15	25.25	24.55	24.70	5432194
## 2024-03-06	24.60	25.40	24.40	25.10	4607053
## 2024-03-07	25.10	25.35	24.85	25.05	2490453
## 2024-03-08	25.05	25.45	24.90	25.20	3563129
## 2024-03-11	25.20	25.80	25.20	25.80	4298890
## 2024-03-12	25.80	26.35	25.60	26.35	5499933
## 2024-03-13	26.35	26.35	25.80	25.95	3777963
## 2024-03-14	26.00	26.10	25.55	25.70	3556390
## 2024-03-15	25.55	25.70	25.20	25.40	5587816
## 2024-03-18	25.40	25.70	25.30	25.70	3108499
## 2024-03-19	25.50	25.70	25.20	25.35	2236150
## 2024-03-20	25.45	25.75	25.25	25.60	3099331
## 2024-03-21	25.65	26.05	25.65	25.90	2493783
## 2024-03-22	25.90	25.95	25.30	25.45	3367528
## 2024-03-25	25.50	25.75	25.25	25.60	2579997
## 2024-03-26	26.00	26.30	25.60	26.15	5201511
## 2024-03-27	26.10	26.35	25.85	26.15	4277108
## 2024-03-28	26.20	26.30	25.70	25.80	3276381
## 2024-04-02	26.10	26.50	25.85	26.00	4233862
## 2024-04-03	26.00	26.10	25.50	25.55	3221108
## 2024-04-05	25.60	25.80	25.20	25.25	3698632
## 2024-04-08	25.25	25.55	25.00	25.40	2726956
## 2024-04-09	25.50	25.80	25.45	25.70	1872242
## 2024-04-10	25.70	25.95	25.65	25.95	2936847
## 2024-04-11	25.35	25.80	25.20	25.70	4414507
## 2024-04-12	25.45	25.60	25.00	25.00	5749787
## 2024-04-15	25.00	25.00	24.45	24.75	3208117
## 2024-04-16	24.60	24.60	24.05	24.15	5034419
## 2024-04-17	24.15	24.50	23.70	23.70	4206955
## 2024-04-18	23.70	23.90	23.05	23.60	5009973
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## 2022-04-25	39.23174
## 2022-04-26	39.37152
## 2022-04-27	38.95217
## 2022-04-28	39.18514
## 2022-04-29	38.99877
## 2022-05-03	39.46470
## 2022-05-04	39.93063
## 2022-05-05	39.97723
## 2022-05-06	39.83745
## 2022-05-10	39.55789
## 2022-05-11	40.21020
## 2022-05-12	40.07042
## 2022-05-13	39.88404
## 2022-05-16	39.97723
## 2022-05-17	39.69767
## 2022-05-18	39.69767
## 2022-05-19	39.97723
## 2022-05-20	40.62954
## 2022-05-23	40.53635
## 2022-05-24	40.39657
## 2022-05-25	40.44316
## 2022-05-26	40.62954
## 2022-05-27	41.03030
## 2022-05-30	40.98259
## 2022-05-31	40.41008
## 2022-06-01	40.55320
## 2022-06-02	40.26695
## 2022-06-06	40.64862
## 2022-06-07	40.36236
## 2022-06-08	40.26695
## 2022-06-09	39.93298
## 2022-06-10	39.78985
## 2022-06-13	39.59901
## 2022-06-14	39.59901
## 2022-06-15	39.26504
## 2022-06-16	39.12192
## 2022-06-17	38.83566
## 2022-06-20	38.93108
## 2022-06-21	39.21733
## 2022-06-22	38.97878
## 2022-06-23	38.93108
## 2022-06-24	39.12192
## 2022-06-27	39.45588
## 2022-06-28	39.78985
## 2022-06-29	39.45588
## 2022-06-30	39.12192
## 2022-07-04	38.97878
## 2022-07-05	39.07420

## 2022-07-06	39.12192
## 2022-07-07	39.31275
## 2022-07-08	39.50359
## 2022-07-11	39.16962
## 2022-07-12	39.64672
## 2022-07-13	39.50359
## 2022-07-14	39.74214
## 2022-07-15	39.59901
## 2022-07-18	39.93298
## 2022-07-19	39.45588
## 2022-07-20	39.55130
## 2022-07-21	38.93108
## 2022-07-22	38.97878
## 2022-07-25	39.26504
## 2022-07-26	39.16962
## 2022-07-27	39.21733
## 2022-07-28	39.36046
## 2022-07-29	39.59901
## 2022-08-01	39.26504
## 2022-08-02	38.97878
## 2022-08-03	38.97878
## 2022-08-04	39.02650
## 2022-08-05	39.21733
## 2022-08-08	39.69443
## 2022-08-09	39.55130
## 2022-08-10	39.36046
## 2022-08-11	39.55130
## 2022-08-12	40.07611
## 2022-08-15	39.78985
## 2022-08-16	39.88527
## 2022-08-17	40.02840
## 2022-08-18	39.78985
## 2022-08-19	39.69443
## 2022-08-22	39.50359
## 2022-08-23	39.12192
## 2022-08-24	38.75557
## 2022-08-25	38.85197
## 2022-08-26	38.90018
## 2022-08-29	38.56275
## 2022-08-30	38.56275
## 2022-08-31	38.80377
## 2022-09-01	38.27353
## 2022-09-02	38.27353
## 2022-09-05	38.22533
## 2022-09-06	38.12892
## 2022-09-07	38.27353
## 2022-09-08	38.17712
## 2022-09-09	38.65916
## 2022-09-13	39.04479
## 2022-09-14	38.70737
## 2022-09-15	38.70737
## 2022-09-16	38.94838
## 2022-09-19	38.65916
## 2022-09-20	38.85197
## 2022-09-21	38.61095
## 2022-09-22	38.03252

## 2022-09-23	37.55048
## 2022-09-26	37.02024
## 2022-09-27	35.81516
## 2022-09-28	34.36906
## 2022-09-29	34.32085
## 2022-09-30	34.75468
## 2022-10-03	34.32085
## 2022-10-05	35.14031
## 2022-10-06	35.18851
## 2022-10-07	34.75468
## 2022-10-10	33.98343
## 2022-10-11	33.83881
## 2022-10-12	33.30858
## 2022-10-13	33.11576
## 2022-10-14	32.97115
## 2022-10-17	33.16397
## 2022-10-18	33.50139
## 2022-10-19	33.64600
## 2022-10-20	33.40499
## 2022-10-21	32.87475
## 2022-10-24	32.39271
## 2022-10-25	32.63373
## 2022-10-26	33.30858
## 2022-10-27	33.45319
## 2022-10-28	33.21217
## 2022-10-31	33.30858
## 2022-11-01	33.64600
## 2022-11-02	34.03163
## 2022-11-03	33.26038
## 2022-11-04	33.54959
## 2022-11-07	34.61007
## 2022-11-08	34.70648
## 2022-11-09	34.51366
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## 2022-11-11	35.57414
## 2022-11-14	35.57414
## 2022-11-15	36.10438
## 2022-11-16	36.53821
## 2022-11-17	36.92384
## 2022-11-18	36.10438
## 2022-11-21	36.39360
## 2022-11-22	36.44180
## 2022-11-23	36.63462
## 2022-11-24	36.24899
## 2022-11-25	35.91156
## 2022-11-28	35.71875
## 2022-11-29	35.91156
## 2022-11-30	36.20078
## 2022-12-01	36.20078
## 2022-12-02	35.81516
## 2022-12-05	35.23672
## 2022-12-06	35.95977
## 2022-12-07	35.76695
## 2022-12-08	36.29720
## 2022-12-09	37.30946
## 2022-12-12	37.26126

## 2022-12-13	38.27353
## 2022-12-14	38.41814
## 2022-12-15	38.51455
## 2022-12-16	38.85197
## 2022-12-19	38.70737
## 2022-12-20	38.65916
## 2022-12-21	38.90018
## 2022-12-22	39.71964
## 2022-12-23	39.43042
## 2022-12-28	39.71964
## 2022-12-29	39.67143
## 2022-12-30	39.86425
## 2023-01-03	40.29808
## 2023-01-04	40.49089
## 2023-01-05	40.10526
## 2023-01-06	40.24987
## 2023-01-09	40.00886
## 2023-01-10	40.10526
## 2023-01-11	39.86425
## 2023-01-12	40.20167
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## 2023-01-16	40.73191
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## 2023-01-18	40.68371
## 2023-01-19	40.87652
## 2023-01-20	40.92472
## 2023-01-26	40.82832
## 2023-01-27	40.58730
## 2023-01-30	41.35855
## 2023-01-31	40.39449
## 2023-02-01	40.78011
## 2023-02-02	40.68371
## 2023-02-03	40.73191
## 2023-02-06	40.24987
## 2023-02-07	40.10526
## 2023-02-08	40.29808
## 2023-02-09	40.20167
## 2023-02-10	40.05706
## 2023-02-13	40.00886
## 2023-02-14	40.00886
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## 2023-02-16	38.90018
## 2023-02-17	38.65916
## 2023-02-20	38.61095
## 2023-02-21	38.75557
## 2023-02-22	38.65916
## 2023-02-23	38.41814
## 2023-02-24	38.46635
## 2023-02-27	38.27353
## 2023-02-28	38.12892
## 2023-03-01	38.61095
## 2023-03-02	38.61095
## 2023-03-03	38.94838
## 2023-03-06	39.47862
## 2023-03-07	39.18940
## 2023-03-08	38.80377

## 2023-03-09	38.85197
## 2023-03-10	38.41814
## 2023-03-13	38.36994
## 2023-03-14	37.69509
## 2023-03-15	37.59869
## 2023-03-16	36.63462
## 2023-03-17	37.02024
## 2023-03-20	36.58641
## 2023-03-21	36.49001
## 2023-03-22	36.77923
## 2023-03-23	36.68282
## 2023-03-24	36.44180
## 2023-03-27	36.44180
## 2023-03-28	36.39360
## 2023-03-29	36.53821
## 2023-03-30	36.58641
## 2023-03-31	36.49001
## 2023-04-03	36.73102
## 2023-04-04	36.97204
## 2023-04-06	37.21305
## 2023-04-11	37.69509
## 2023-04-12	37.40587
## 2023-04-13	37.55048
## 2023-04-14	37.59869
## 2023-04-17	37.74329
## 2023-04-18	37.45407
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## 2023-04-20	37.26126
## 2023-04-21	37.30946
## 2023-04-24	36.92384
## 2023-04-25	36.77923
## 2023-04-26	37.16486
## 2023-04-27	37.40587
## 2023-04-28	37.74329
## 2023-05-02	38.08072
## 2023-05-03	38.08072
## 2023-05-04	38.17712
## 2023-05-05	38.46635
## 2023-05-08	38.27353
## 2023-05-09	38.22533
## 2023-05-10	38.17712
## 2023-05-11	38.08072
## 2023-05-12	37.30946
## 2023-05-15	37.83970
## 2023-05-16	37.45407
## 2023-05-17	37.02024
## 2023-05-18	37.02024
## 2023-05-19	37.16486
## 2023-05-22	37.40587
## 2023-05-23	37.11665
## 2023-05-24	37.02024
## 2023-05-25	36.77923
## 2023-05-29	36.02903
## 2023-05-30	35.63419
## 2023-05-31	35.58484
## 2023-06-01	35.28871

## 2023-06-02	36.02903
## 2023-06-05	36.52258
## 2023-06-06	36.17710
## 2023-06-07	36.37452
## 2023-06-08	36.52258
## 2023-06-09	36.57193
## 2023-06-12	36.76936
## 2023-06-13	36.72000
## 2023-06-14	36.32516
## 2023-06-15	36.32516
## 2023-06-16	36.17710
## 2023-06-19	36.62129
## 2023-06-20	36.32516
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## 2023-06-23	35.73290
## 2023-06-26	35.58484
## 2023-06-27	35.73290
## 2023-06-28	36.07839
## 2023-06-29	35.73290
## 2023-06-30	35.53548
## 2023-07-03	35.68355
## 2023-07-04	35.63419
## 2023-07-05	35.28871
## 2023-07-06	34.84452
## 2023-07-07	34.54839
## 2023-07-10	34.10419
## 2023-07-11	34.49903
## 2023-07-12	34.54839
## 2023-07-13	35.14064
## 2023-07-14	35.23936
## 2023-07-18	34.49903
## 2023-07-19	34.49903
## 2023-07-20	34.74581
## 2023-07-21	35.23936
## 2023-07-24	34.69645
## 2023-07-25	35.04193
## 2023-07-26	35.19000
## 2023-07-27	35.63419
## 2023-07-28	35.73290
## 2023-07-31	35.38742
## 2023-08-01	35.43678
## 2023-08-02	34.84452
## 2023-08-03	34.74581
## 2023-08-04	34.35097
## 2023-08-07	34.64709
## 2023-08-08	34.30161
## 2023-08-09	34.69645
## 2023-08-10	34.79516
## 2023-08-11	34.54839
## 2023-08-14	34.05484
## 2023-08-15	33.66000
## 2023-08-16	33.31452
## 2023-08-17	32.91968
## 2023-08-18	32.47549
## 2023-08-21	31.73516
## 2023-08-22	32.13000



## 2023-08-23	32.00000
## 2023-08-24	32.10000
## 2023-08-25	31.90000
## 2023-08-28	32.00000
## 2023-08-29	32.75000
## 2023-08-30	32.75000
## 2023-08-31	32.75000
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## 2023-09-05	32.10000
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## 2023-09-07	32.05000
## 2023-09-11	31.05000
## 2023-09-12	31.15000
## 2023-09-13	31.25000
## 2023-09-14	30.85000
## 2023-09-15	31.00000
## 2023-09-18	30.70000
## 2023-09-19	31.05000
## 2023-09-20	30.85000
## 2023-09-21	30.45000
## 2023-09-22	30.60000
## 2023-09-25	30.30000
## 2023-09-26	30.20000
## 2023-09-27	30.45000
## 2023-09-28	30.20000
## 2023-09-29	31.00000
## 2023-10-03	30.15000
## 2023-10-04	29.95000
## 2023-10-05	30.25000
## 2023-10-06	30.60000
## 2023-10-09	30.30000
## 2023-10-10	30.55000
## 2023-10-11	31.10000
## 2023-10-12	31.45000
## 2023-10-13	30.60000
## 2023-10-16	30.55000
## 2023-10-17	30.70000
## 2023-10-18	30.65000
## 2023-10-19	29.95000
## 2023-10-20	30.10000
## 2023-10-24	29.85000
## 2023-10-25	29.80000
## 2023-10-26	28.50000
## 2023-10-27	29.55000
## 2023-10-30	29.75000
## 2023-10-31	29.25000
## 2023-11-01	29.45000
## 2023-11-02	30.10000
## 2023-11-03	30.40000
## 2023-11-06	30.30000
## 2023-11-07	29.50000
## 2023-11-08	29.45000
## 2023-11-09	29.10000
## 2023-11-10	28.65000
## 2023-11-13	29.20000
## 2023-11-14	29.35000

## 2023-11-15	30.45000
## 2023-11-16	30.10000
## 2023-11-17	29.60000
## 2023-11-20	30.00000
## 2023-11-21	29.65000
## 2023-11-22	29.80000
## 2023-11-23	29.90000
## 2023-11-24	29.65000
## 2023-11-27	29.35000
## 2023-11-28	29.00000
## 2023-11-29	28.10000
## 2023-11-30	28.00000
## 2023-12-01	27.95000
## 2023-12-04	27.90000
## 2023-12-05	27.50000
## 2023-12-06	28.15000
## 2023-12-07	27.90000
## 2023-12-08	27.90000
## 2023-12-11	28.05000
## 2023-12-12	28.45000
## 2023-12-13	28.50000
## 2023-12-14	28.85000
## 2023-12-15	29.80000
## 2023-12-18	29.05000
## 2023-12-19	29.30000
## 2023-12-20	29.35000
## 2023-12-21	29.40000
## 2023-12-22	29.65000
## 2023-12-27	29.80000
## 2023-12-28	30.15000
## 2023-12-29	30.30000
## 2024-01-02	29.85000
## 2024-01-03	28.60000
## 2024-01-04	28.25000
## 2024-01-05	28.10000
## 2024-01-08	27.95000
## 2024-01-09	27.80000
## 2024-01-10	27.50000
## 2024-01-11	27.75000
## 2024-01-12	27.75000
## 2024-01-15	27.70000
## 2024-01-16	27.10000
## 2024-01-17	25.90000
## 2024-01-18	25.85000
## 2024-01-19	25.85000
## 2024-01-22	25.60000
## 2024-01-23	26.00000
## 2024-01-24	26.55000
## 2024-01-25	26.20000
## 2024-01-26	25.90000
## 2024-01-29	26.35000
## 2024-01-30	25.60000
## 2024-01-31	25.40000
## 2024-02-01	25.25000
## 2024-02-02	25.60000
## 2024-02-05	25.75000

## 2024-02-06	26.15000
## 2024-02-07	26.25000
## 2024-02-08	25.75000
## 2024-02-09	25.55000
## 2024-02-14	25.15000
## 2024-02-15	24.90000
## 2024-02-16	25.40000
## 2024-02-19	25.20000
## 2024-02-20	25.90000
## 2024-02-21	26.55000
## 2024-02-22	27.00000
## 2024-02-23	26.35000
## 2024-02-26	26.40000
## 2024-02-27	26.60000
## 2024-02-28	26.65000
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## 2024-03-05	24.70000
## 2024-03-06	25.10000
## 2024-03-07	25.05000
## 2024-03-08	25.20000
## 2024-03-11	25.80000
## 2024-03-12	26.35000
## 2024-03-13	25.95000
## 2024-03-14	25.70000
## 2024-03-15	25.40000
## 2024-03-18	25.70000
## 2024-03-19	25.35000
## 2024-03-20	25.60000
## 2024-03-21	25.90000
## 2024-03-22	25.45000
## 2024-03-25	25.60000
## 2024-03-26	26.15000
## 2024-03-27	26.15000
## 2024-03-28	25.80000
## 2024-04-02	26.00000
## 2024-04-03	25.55000
## 2024-04-05	25.25000
## 2024-04-08	25.40000
## 2024-04-09	25.70000
## 2024-04-10	25.95000
## 2024-04-11	25.70000
## 2024-04-12	25.00000
## 2024-04-15	24.75000
## 2024-04-16	24.15000
## 2024-04-17	23.70000
## 2024-04-18	23.60000
## 2024-04-19	23.45000

```
MTR=MTR$`0066. HK. Adjusted`  
plot(MTR)
```

MTR

2015-01-02 / 2024-04-19



```
# 载通
```

```
setSymbolLookup(TI=list(name="0062. HK", src="yahoo"))  
getSymbols("TI", from = "2015-01-01", to = "2024-04-20")
```

```
## [1] "TI"
```

```
TI=na.omit(TI)  
TI
```

##	0062. HK. Open	0062. HK. High	0062. HK. Low	0062. HK. Close	0062. HK. Volume
## 2015-01-02	16.52	17.12	16.50	17.06	557600
## 2015-01-05	16.96	17.58	16.96	17.46	287203
## 2015-01-06	17.52	17.66	17.36	17.56	424306
## 2015-01-07	17.58	17.80	17.58	17.66	144250
## 2015-01-08	17.70	17.74	17.54	17.62	215600
## 2015-01-09	17.76	17.76	17.32	17.50	147460
## 2015-01-12	17.50	17.74	17.50	17.70	246356
## 2015-01-13	17.70	17.80	17.60	17.72	188000
## 2015-01-14	17.78	17.80	17.66	17.74	118000
## 2015-01-15	17.70	17.74	17.60	17.72	60800
## 2015-01-16	17.64	17.74	17.52	17.66	186797
## 2015-01-19	17.60	17.76	17.50	17.58	117600
## 2015-01-20	17.66	17.66	17.50	17.60	101200
## 2015-01-21	17.50	17.68	17.50	17.64	69200
## 2015-01-22	17.64	17.70	17.56	17.66	121859
## 2015-01-23	17.76	18.30	17.74	18.18	431342
## 2015-01-26	18.30	18.80	18.30	18.78	339200
## 2015-01-27	18.76	19.14	18.76	19.02	575200
## 2015-01-28	19.02	19.02	18.84	18.92	77600
## 2015-01-29	18.86	18.90	18.60	18.66	136800
## 2015-01-30	18.60	19.10	18.56	19.10	430088
## 2015-02-02	19.06	19.42	19.00	19.40	625200
## 2015-02-03	19.32	19.42	19.08	19.42	212000
## 2015-02-04	19.38	19.38	19.10	19.24	222400
## 2015-02-05	19.42	19.42	19.10	19.20	76537
## 2015-02-06	19.20	19.32	19.00	19.16	265366
## 2015-02-09	19.50	19.50	19.14	19.24	65200
## 2015-02-10	19.30	19.38	18.98	19.04	80600
## 2015-02-11	19.06	19.20	19.02	19.16	82000
## 2015-02-12	19.06	19.06	18.72	18.88	141200
## 2015-02-13	18.98	19.00	18.30	18.48	217522
## 2015-02-16	18.58	18.86	17.88	18.12	288000
## 2015-02-17	18.20	18.66	18.20	18.56	150400
## 2015-02-18	18.74	18.78	18.66	18.74	26000
## 2015-02-23	18.72	18.94	18.36	18.38	132400
## 2015-02-24	18.68	18.68	18.26	18.48	128788
## 2015-02-25	18.50	18.50	18.00	18.30	142362
## 2015-02-26	18.22	18.40	17.84	18.04	309589
## 2015-02-27	18.04	18.40	18.04	18.28	126800
## 2015-03-02	18.30	18.30	17.90	18.14	92800
## 2015-03-03	18.14	18.20	18.00	18.14	31600
## 2015-03-04	18.26	18.26	18.06	18.18	47374
## 2015-03-05	18.28	18.38	17.92	18.20	113600
## 2015-03-06	18.10	18.28	18.10	18.28	131600
## 2015-03-09	18.18	18.38	17.98	18.30	136376
## 2015-03-10	18.18	18.30	18.18	18.20	97600
## 2015-03-11	18.20	18.34	18.12	18.28	120000
## 2015-03-12	18.20	18.28	18.14	18.26	65200
## 2015-03-13	18.20	18.20	18.00	18.18	64918
## 2015-03-16	18.38	18.46	18.24	18.34	85200
## 2015-03-17	18.44	18.44	18.22	18.36	38800
## 2015-03-18	18.28	18.44	18.26	18.28	30000
## 2015-03-19	18.22	18.76	18.22	18.66	152559
## 2015-03-20	19.10	19.44	18.88	19.02	336800

## 2015-03-23	19.04	19.16	18.84	18.88	157200
## 2015-03-24	18.86	19.06	18.82	19.06	82000
## 2015-03-25	19.00	19.04	19.00	19.00	92717
## 2015-03-26	18.90	18.92	18.44	18.54	259200
## 2015-03-27	18.46	18.74	18.46	18.56	145200
## 2015-03-30	18.58	18.80	18.48	18.70	316695
## 2015-03-31	18.82	18.82	18.50	18.70	147200
## 2015-04-01	18.70	19.00	18.68	19.00	257618
## 2015-04-02	19.00	19.00	18.66	18.78	284400
## 2015-04-08	18.78	18.78	18.12	18.66	408633
## 2015-04-09	18.80	18.90	18.50	18.82	540077
## 2015-04-10	18.80	18.98	18.80	18.90	177942
## 2015-04-13	18.98	19.10	18.70	19.04	486000
## 2015-04-14	19.06	19.20	18.72	19.08	425708
## 2015-04-15	19.00	19.00	18.84	18.94	210865
## 2015-04-16	19.02	19.04	18.94	19.00	94000
## 2015-04-17	18.94	19.04	18.90	18.92	206400
## 2015-04-20	18.98	18.98	18.70	18.78	103200
## 2015-04-21	18.78	18.98	18.76	18.76	74400
## 2015-04-22	18.74	19.02	18.70	19.02	132546
## 2015-04-23	19.10	19.20	18.96	19.04	184400
## 2015-04-24	19.10	19.10	18.80	19.02	221200
## 2015-04-27	19.00	19.16	19.00	19.04	96583
## 2015-04-28	19.04	19.60	19.04	19.38	216689
## 2015-04-29	19.20	19.46	19.18	19.40	78000
## 2015-04-30	19.40	19.40	19.30	19.32	37228
## 2015-05-04	19.34	19.58	19.32	19.54	72400
## 2015-05-05	19.56	19.58	19.34	19.36	133146
## 2015-05-06	19.36	19.54	19.20	19.30	52800
## 2015-05-07	19.22	19.36	19.00	19.14	158329
## 2015-05-08	19.02	19.38	19.02	19.24	35232
## 2015-05-11	19.36	19.46	19.24	19.40	36800
## 2015-05-12	19.40	19.46	19.40	19.38	1600
## 2015-05-13	19.32	19.50	19.28	19.38	60000
## 2015-05-14	19.36	19.36	19.28	19.32	63600
## 2015-05-15	19.30	19.40	19.30	19.30	31146
## 2015-05-18	19.30	19.40	19.20	19.40	150400
## 2015-05-19	19.40	19.44	19.30	19.40	115951
## 2015-05-20	19.40	19.50	19.30	19.40	87600
## 2015-05-21	19.46	19.46	19.34	19.40	101600
## 2015-05-22	19.40	19.50	19.32	19.48	47616
## 2015-05-26	18.98	18.98	18.68	18.80	201677
## 2015-05-27	18.80	19.00	18.66	18.76	92000
## 2015-05-28	18.74	18.78	18.48	18.52	163200
## 2015-05-29	18.46	18.80	18.40	18.40	68000
## 2015-06-01	18.32	18.50	18.26	18.48	65001
## 2015-06-02	18.50	18.68	18.50	18.60	119177
## 2015-06-03	19.52	19.52	19.00	19.18	463911
## 2015-06-04	19.24	19.24	18.90	19.06	231600
## 2015-06-05	19.12	19.12	18.90	19.02	113200
## 2015-06-08	19.30	19.30	18.90	19.00	28400
## 2015-06-09	18.92	18.92	18.64	18.72	100400
## 2015-06-10	19.00	19.00	18.00	18.70	228800
## 2015-06-11	18.98	18.98	18.70	18.86	67600
## 2015-06-12	19.00	19.00	18.70	18.72	79200
## 2015-06-15	18.60	19.00	18.60	18.64	53900

## 2015-06-16	18.98	18.98	18.50	18.92	215600
## 2015-06-17	18.88	18.98	18.82	18.98	330007
## 2015-06-18	19.00	19.06	18.80	19.02	139200
## 2015-06-19	19.04	19.40	18.90	19.30	274335
## 2015-06-22	19.30	19.32	19.00	19.20	416800
## 2015-06-23	19.24	19.36	19.00	19.18	291762
## 2015-06-24	19.28	19.28	18.94	19.20	92685
## 2015-06-25	19.34	19.34	19.00	19.18	85100
## 2015-06-26	19.10	19.30	19.08	19.08	125100
## 2015-06-29	19.02	19.12	18.80	19.12	250000
## 2015-06-30	19.10	19.10	18.88	18.88	52400
## 2015-07-02	18.88	19.06	18.88	19.06	74400
## 2015-07-03	18.90	19.06	18.70	19.04	184000
## 2015-07-06	18.88	19.00	18.50	19.00	370000
## 2015-07-07	19.00	19.10	18.82	18.86	392000
## 2015-07-08	19.00	19.00	18.30	18.62	735600
## 2015-07-09	18.62	19.20	18.50	19.10	558800
## 2015-07-10	18.90	19.28	18.90	19.28	177302
## 2015-07-13	19.36	19.80	19.30	19.78	641502
## 2015-07-14	19.78	20.60	19.78	20.30	434754
## 2015-07-15	20.50	20.80	20.20	20.50	471420
## 2015-07-16	20.50	20.60	20.35	20.55	284000
## 2015-07-17	20.95	21.10	20.60	20.95	423803
## 2015-07-20	20.80	21.85	20.80	21.85	688329
## 2015-07-21	21.80	22.30	21.40	21.45	526800
## 2015-07-22	21.45	21.45	21.05	21.45	265600
## 2015-07-23	21.75	22.00	21.70	21.85	164000
## 2015-07-24	21.90	21.90	21.55	21.75	78456
## 2015-07-27	21.75	21.75	21.00	21.15	241600
## 2015-07-28	21.15	21.75	21.15	21.55	311200
## 2015-07-29	21.30	21.55	21.00	21.05	238000
## 2015-07-30	21.30	21.60	21.30	21.30	71487
## 2015-07-31	21.20	21.45	21.10	21.15	106400
## 2015-08-03	21.20	21.55	21.20	21.25	124400
## 2015-08-04	21.30	21.50	21.20	21.30	80000
## 2015-08-05	21.25	21.75	21.25	21.70	214720
## 2015-08-06	21.60	21.80	21.45	21.65	130800
## 2015-08-07	21.70	22.25	21.60	22.10	255200
## 2015-08-10	21.85	22.15	21.70	22.00	88800
## 2015-08-11	21.80	22.10	21.40	21.60	207200
## 2015-08-12	21.50	21.60	21.15	21.25	116400
## 2015-08-13	21.00	21.55	21.00	21.45	79290
## 2015-08-14	21.25	22.25	21.25	22.25	275028
## 2015-08-17	22.15	22.20	21.85	22.05	103200
## 2015-08-18	21.95	22.15	21.60	21.80	138400
## 2015-08-19	21.70	22.00	21.55	21.60	138400
## 2015-08-20	21.20	21.50	20.25	20.40	1203600
## 2015-08-21	20.10	20.95	19.84	20.95	808400
## 2015-08-24	20.40	20.40	19.84	20.05	836400
## 2015-08-25	19.70	20.65	19.70	20.65	861754
## 2015-08-26	20.65	20.65	20.30	20.50	237600
## 2015-08-27	20.60	20.85	20.40	20.75	206400
## 2015-08-28	20.80	20.80	20.55	20.60	89600
## 2015-08-31	20.40	20.65	20.30	20.65	245687
## 2015-09-01	20.40	20.60	20.15	20.40	319600
## 2015-09-02	20.20	20.30	19.92	20.25	334600

## 2015-09-04	20.10	20.35	20.10	20.25	168628
## 2015-09-07	19.96	20.55	19.96	20.50	284800
## 2015-09-08	20.65	20.65	20.40	20.55	246800
## 2015-09-09	20.70	21.15	20.70	20.95	141600
## 2015-09-10	20.80	20.90	20.60	20.85	102000
## 2015-09-11	20.80	20.90	20.70	20.80	46400
## 2015-09-14	20.80	21.30	20.80	20.85	104462
## 2015-09-15	20.80	20.95	20.75	20.90	58400
## 2015-09-16	20.90	21.05	20.70	21.00	189200
## 2015-09-17	20.95	21.05	20.70	20.80	43200
## 2015-09-18	20.70	20.95	20.65	20.75	45200
## 2015-09-21	20.65	20.90	20.50	20.75	62000
## 2015-09-22	20.65	21.00	20.55	20.80	141600
## 2015-09-23	20.65	20.75	20.40	20.70	152400
## 2015-09-24	20.80	20.90	20.60	20.85	26233
## 2015-09-25	20.75	20.80	20.60	20.70	24080
## 2015-09-29	20.40	20.70	20.30	20.50	166800
## 2015-09-30	20.20	20.50	20.00	20.50	64400
## 2015-10-02	20.20	20.50	20.20	20.45	57200
## 2015-10-05	20.10	20.55	19.90	20.35	261600
## 2015-10-06	20.35	20.50	20.25	20.40	73600
## 2015-10-07	20.35	20.50	20.15	20.40	144400
## 2015-10-08	20.35	20.40	20.25	20.40	29600
## 2015-10-09	20.40	20.40	20.05	20.10	61200
## 2015-10-12	20.00	20.55	20.00	20.25	38155
## 2015-10-13	20.15	20.35	20.05	20.35	54000
## 2015-10-14	20.25	20.35	20.10	20.25	43238
## 2015-10-15	20.25	20.35	20.05	20.25	51596
## 2015-10-16	20.40	20.40	20.20	20.30	74400
## 2015-10-19	20.20	20.30	20.15	20.25	33200
## 2015-10-20	20.30	20.30	20.15	20.25	70740
## 2015-10-22	20.10	20.20	20.05	20.15	33600
## 2015-10-23	20.20	20.30	20.05	20.20	89200
## 2015-10-26	20.15	20.30	20.00	20.10	62800
## 2015-10-27	20.05	20.20	20.00	20.10	115200
## 2015-10-28	20.15	20.70	20.15	20.50	224683
## 2015-10-29	20.60	21.00	20.60	20.95	173485
## 2015-10-30	20.85	21.20	20.70	20.95	133800
## 2015-11-02	20.95	21.10	20.95	21.00	36400
## 2015-11-03	21.00	21.00	20.75	20.75	50228
## 2015-11-04	20.70	20.75	20.50	20.55	91681
## 2015-11-05	20.50	20.55	20.35	20.40	79200
## 2015-11-06	20.40	20.65	20.40	20.65	87601
## 2015-11-09	20.55	20.75	20.55	20.65	70800
## 2015-11-10	20.60	20.70	20.50	20.65	73600
## 2015-11-11	20.65	20.80	20.55	20.65	61200
## 2015-11-12	20.70	20.70	20.60	20.65	28400
## 2015-11-13	20.45	20.60	20.30	20.35	72400
## 2015-11-16	20.25	20.50	20.25	20.35	32800
## 2015-11-17	20.50	20.65	20.45	20.55	18400
## 2015-11-18	20.50	20.80	20.50	20.60	31200
## 2015-11-19	20.65	20.90	20.65	20.75	31600
## 2015-11-20	20.70	20.90	20.60	20.65	16800
## 2015-11-23	20.75	21.20	20.65	21.05	122983
## 2015-11-24	21.20	21.20	21.00	21.10	104400
## 2015-11-25	21.10	21.10	20.85	21.00	36681



## 2015-11-26	20.95	21.00	20.55	20.65	173836
## 2015-11-27	20.60	20.70	20.45	20.45	63685
## 2015-11-30	20.50	20.80	20.50	20.65	53600
## 2015-12-01	20.65	20.75	19.98	20.55	169491
## 2015-12-02	20.65	20.65	20.40	20.50	56400
## 2015-12-03	20.45	20.60	20.40	20.45	194800
## 2015-12-04	20.35	20.45	20.25	20.30	70000
## 2015-12-07	20.40	20.40	20.05	20.30	132255
## 2015-12-08	20.35	20.75	20.25	20.65	104197
## 2015-12-09	20.65	20.70	20.55	20.65	92400
## 2015-12-10	20.50	20.75	20.50	20.55	95200
## 2015-12-11	20.80	20.85	20.55	20.55	50000
## 2015-12-14	20.50	20.55	20.35	20.50	101600
## 2015-12-15	20.40	20.50	20.35	20.45	164800
## 2015-12-16	20.45	20.80	20.35	20.50	100827
## 2015-12-17	20.55	20.65	20.55	20.60	47200
## 2015-12-18	20.60	20.60	20.50	20.60	40850
## 2015-12-21	20.50	20.70	20.50	20.70	48903
## 2015-12-22	20.65	20.70	20.55	20.60	38966
## 2015-12-23	20.60	20.75	20.60	20.60	76400
## 2015-12-24	20.60	20.70	20.60	20.60	27600
## 2015-12-28	20.55	20.75	20.55	20.60	34000
## 2015-12-29	20.65	20.70	20.60	20.60	49419
## 2015-12-30	20.65	20.70	20.60	20.65	33600
## 2015-12-31	20.70	20.75	20.60	20.65	24084
## 2016-01-04	20.65	20.90	20.65	20.75	152000
## 2016-01-05	20.75	21.20	20.75	21.05	210400
## 2016-01-06	21.05	21.05	20.90	21.00	124400
## 2016-01-07	21.00	21.00	21.00	21.00	0
## 2016-01-08	21.15	21.40	21.00	21.35	247102
## 2016-01-11	21.25	21.25	20.75	20.75	222400
## 2016-01-12	20.85	21.15	20.85	21.00	330000
## 2016-01-13	21.10	21.10	20.95	20.95	125200
## 2016-01-14	20.90	20.95	20.75	20.90	172800
## 2016-01-15	20.95	20.95	20.60	20.65	179600
## 2016-01-18	20.60	20.70	20.50	20.55	172800
## 2016-01-19	20.60	20.80	20.45	20.80	218400
## 2016-01-20	20.70	20.95	20.55	20.60	206761
## 2016-01-21	20.60	20.75	20.40	20.50	315200
## 2016-01-22	20.65	20.65	20.25	20.50	349200
## 2016-01-25	20.65	20.65	20.55	20.55	219600
## 2016-01-26	20.55	20.75	20.45	20.45	191600
## 2016-01-27	20.65	20.65	20.45	20.60	203200
## 2016-01-28	20.65	20.70	20.55	20.60	127200
## 2016-01-29	20.70	20.70	20.55	20.70	88000
## 2016-02-01	20.75	20.75	20.55	20.75	109200
## 2016-02-02	20.80	21.00	20.75	21.00	213081
## 2016-02-03	20.85	20.90	20.60	20.75	174004
## 2016-02-04	20.60	20.80	20.55	20.75	220400
## 2016-02-05	20.80	20.80	20.65	20.75	50800
## 2016-02-11	20.50	20.65	20.35	20.50	142638
## 2016-02-12	20.35	20.50	20.20	20.25	251200
## 2016-02-15	20.30	20.30	19.74	19.90	528000
## 2016-02-16	19.94	20.20	19.82	20.00	203600
## 2016-02-17	20.10	20.10	19.98	20.05	112028
## 2016-02-18	20.20	20.30	20.10	20.25	195800

## 2016-02-19	20.20	20.35	20.15	20.35	96800
## 2016-02-22	20.40	20.70	20.35	20.65	284400
## 2016-02-23	20.50	20.60	20.35	20.40	190000
## 2016-02-24	20.40	20.55	20.40	20.50	154000
## 2016-02-25	20.55	20.55	20.40	20.55	197428
## 2016-02-26	20.55	20.65	20.50	20.60	193600
## 2016-02-29	20.70	20.90	20.60	20.85	348803
## 2016-03-01	20.85	21.20	20.80	21.20	402000
## 2016-03-02	21.25	21.60	21.25	21.50	396000
## 2016-03-03	21.50	21.70	21.35	21.50	219766
## 2016-03-04	21.60	21.65	21.50	21.65	62400
## 2016-03-07	21.65	21.65	21.05	21.40	233552
## 2016-03-08	21.30	21.35	21.00	21.30	230400
## 2016-03-09	21.35	21.35	21.25	21.30	30800
## 2016-03-10	21.25	21.50	21.25	21.45	168400
## 2016-03-11	21.45	21.60	21.45	21.55	74800
## 2016-03-14	21.55	21.75	21.50	21.60	87200
## 2016-03-15	21.55	21.60	21.35	21.50	77600
## 2016-03-16	21.50	21.50	21.30	21.50	86585
## 2016-03-17	21.50	21.60	21.50	21.60	116400
## 2016-03-18	21.55	21.70	21.55	21.55	190019
## 2016-03-21	21.60	21.70	21.55	21.70	169200
## 2016-03-22	21.75	21.95	21.75	21.85	194800
## 2016-03-23	22.10	22.55	22.10	22.40	569710
## 2016-03-24	22.45	22.45	21.80	21.85	400288
## 2016-03-29	20.75	20.85	20.20	20.80	1232103
## 2016-03-30	20.90	21.00	20.70	20.75	705200
## 2016-03-31	20.75	21.00	20.75	21.00	158200
## 2016-04-01	21.00	21.00	20.80	20.85	121200
## 2016-04-05	20.90	21.05	20.85	21.05	248800
## 2016-04-06	21.05	21.30	21.00	21.15	98800
## 2016-04-07	21.05	21.20	20.85	20.90	300000
## 2016-04-08	20.90	21.00	20.85	20.95	105600
## 2016-04-11	20.85	20.95	20.60	20.70	244672
## 2016-04-12	20.80	20.80	20.55	20.70	260800
## 2016-04-13	20.85	20.85	20.50	20.75	554400
## 2016-04-14	20.80	21.30	20.75	21.10	281147
## 2016-04-15	21.00	21.15	20.95	21.00	94800
## 2016-04-18	21.00	21.05	20.75	21.00	208825
## 2016-04-19	21.15	21.15	20.85	21.05	174000
## 2016-04-20	21.15	21.15	20.80	20.90	260240
## 2016-04-21	20.90	21.00	20.80	20.95	210400
## 2016-04-22	20.90	21.00	20.80	20.90	234800
## 2016-04-25	20.90	21.10	20.90	21.05	127200
## 2016-04-26	21.05	21.20	21.05	21.15	128800
## 2016-04-27	21.15	21.30	21.15	21.20	69616
## 2016-04-28	21.30	21.30	21.05	21.05	89200
## 2016-04-29	21.00	21.15	20.90	21.10	280799
## 2016-05-03	21.00	21.05	20.90	20.95	142400
## 2016-05-04	20.90	20.90	20.75	20.80	127565
## 2016-05-05	20.80	20.95	20.80	20.90	172800
## 2016-05-06	20.85	21.00	20.75	20.75	256000
## 2016-05-09	20.85	20.90	20.75	20.80	126000
## 2016-05-10	20.80	20.90	20.75	20.85	73600
## 2016-05-11	20.85	20.95	20.75	20.85	101600
## 2016-05-12	20.85	20.90	20.80	20.85	100881

## 2016-05-13	20.75	20.90	20.65	20.65	113200
## 2016-05-16	20.60	20.90	20.60	20.80	77257
## 2016-05-17	20.85	20.90	20.80	20.85	63600
## 2016-05-18	20.70	21.00	20.70	20.95	56800
## 2016-05-19	20.95	21.00	20.80	20.80	127200
## 2016-05-20	20.90	20.95	20.80	20.95	56400
## 2016-05-23	20.90	21.00	20.80	20.95	105600
## 2016-05-24	20.90	20.95	20.80	20.85	117200
## 2016-05-25	21.00	21.35	20.90	21.25	282000
## 2016-05-26	21.20	21.20	20.80	20.80	460876
## 2016-05-27	20.90	21.05	20.85	20.90	202800
## 2016-05-30	20.25	20.25	19.82	20.00	142000
## 2016-05-31	20.00	20.10	19.88	19.98	81600
## 2016-06-01	19.98	20.05	19.92	20.00	388432
## 2016-06-02	20.05	20.10	20.00	20.10	67600
## 2016-06-03	20.05	20.10	20.00	20.10	136400
## 2016-06-06	20.05	20.10	19.94	20.00	116800
## 2016-06-07	20.10	20.15	20.05	20.10	154800
## 2016-06-08	20.10	20.15	20.10	20.10	239200
## 2016-06-10	20.05	20.15	20.05	20.10	100340
## 2016-06-13	20.10	20.10	19.90	20.05	107200
## 2016-06-14	20.05	20.10	19.98	20.00	115600
## 2016-06-15	20.00	20.05	19.94	20.05	73200
## 2016-06-16	19.96	20.00	19.88	19.94	88350
## 2016-06-17	19.98	20.00	19.30	19.48	698601
## 2016-06-20	19.68	19.90	19.66	19.84	90000
## 2016-06-21	19.90	19.98	19.84	19.88	96800
## 2016-06-22	19.86	19.88	19.80	19.84	54400
## 2016-06-23	19.86	19.90	19.60	19.76	84075
## 2016-06-24	19.70	19.96	19.34	19.90	442200
## 2016-06-27	19.88	20.15	19.78	20.15	223778
## 2016-06-28	20.10	20.60	20.10	20.55	299600
## 2016-06-29	20.55	20.55	20.25	20.25	195200
## 2016-06-30	20.25	20.50	20.25	20.30	164496
## 2016-07-04	20.50	20.50	20.30	20.50	163600
## 2016-07-05	20.50	20.45	20.25	20.35	110800
## 2016-07-06	20.25	20.30	20.15	20.15	221600
## 2016-07-07	20.25	20.35	20.15	20.30	112800
## 2016-07-08	20.30	20.50	20.30	20.45	142000
## 2016-07-11	20.50	20.60	20.45	20.50	104600
## 2016-07-12	20.55	20.90	20.55	20.90	218217
## 2016-07-13	20.90	21.10	20.80	20.90	134113
## 2016-07-14	20.85	20.95	20.85	20.90	70499
## 2016-07-15	20.90	21.00	20.80	20.95	344197
## 2016-07-18	20.90	21.00	20.70	21.00	72579
## 2016-07-19	21.00	21.00	20.90	20.95	103600
## 2016-07-20	21.00	21.20	21.00	21.15	160713
## 2016-07-21	21.10	21.30	21.05	21.10	138000
## 2016-07-22	21.10	21.20	21.05	21.10	64043
## 2016-07-25	21.10	21.55	21.10	21.55	198400
## 2016-07-26	21.55	21.60	21.45	21.50	156391
## 2016-07-27	21.60	21.60	21.40	21.60	212853
## 2016-07-28	21.60	21.60	21.40	21.55	130800
## 2016-07-29	21.55	21.55	21.35	21.35	162000
## 2016-08-01	21.40	21.60	21.35	21.40	151418
## 2016-08-02	21.40	21.40	21.40	21.40	0

## 2016-08-03	21.40	21.60	21.35	21.45	193083
## 2016-08-04	21.45	21.75	21.45	21.55	219450
## 2016-08-05	22.30	23.25	22.30	23.10	2088757
## 2016-08-08	23.40	24.40	23.25	24.20	1314049
## 2016-08-09	24.05	24.30	23.85	24.05	597002
## 2016-08-10	24.05	24.20	23.60	23.75	680132
## 2016-08-11	23.75	23.95	23.40	23.60	609600
## 2016-08-12	23.80	23.90	23.65	23.75	243379
## 2016-08-15	23.85	23.95	23.50	23.60	339200
## 2016-08-16	23.60	23.70	23.10	23.40	419269
## 2016-08-17	23.45	23.85	23.25	23.85	268957
## 2016-08-18	23.75	24.05	23.70	24.05	369235
## 2016-08-19	24.30	24.50	23.60	23.70	641200
## 2016-08-22	23.70	23.85	23.65	23.80	234000
## 2016-08-23	23.85	23.85	23.65	23.80	186800
## 2016-08-24	23.85	23.85	23.60	23.75	135600
## 2016-08-25	23.80	23.85	23.65	23.80	198500
## 2016-08-26	23.85	23.95	23.85	23.90	90800
## 2016-08-29	23.90	24.20	23.90	24.15	281200
## 2016-08-30	24.15	24.15	23.95	24.10	176000
## 2016-08-31	24.10	24.20	23.95	24.15	244023
## 2016-09-01	24.10	24.35	24.10	24.30	276222
## 2016-09-02	24.05	24.05	23.70	23.85	205600
## 2016-09-05	23.85	23.90	23.65	23.75	155598
## 2016-09-06	23.85	23.85	23.65	23.70	155200
## 2016-09-07	23.80	23.80	23.60	23.60	289258
## 2016-09-08	23.70	23.95	23.60	23.75	122400
## 2016-09-09	23.65	23.75	23.55	23.65	250800
## 2016-09-12	23.20	23.50	23.10	23.15	323400
## 2016-09-13	23.30	23.50	23.10	23.15	164000
## 2016-09-14	23.20	23.30	23.10	23.20	78200
## 2016-09-15	23.30	23.55	23.15	23.40	92800
## 2016-09-19	23.45	23.70	23.15	23.40	130800
## 2016-09-20	23.35	23.65	23.35	23.55	72400
## 2016-09-21	23.45	23.70	23.40	23.55	180600
## 2016-09-22	23.55	23.80	23.50	23.60	181220
## 2016-09-23	23.60	23.65	23.50	23.50	56400
## 2016-09-26	23.50	23.65	23.30	23.30	98599
## 2016-09-27	23.30	23.65	23.30	23.65	124000
## 2016-09-28	23.55	23.70	23.35	23.40	45600
## 2016-09-29	23.40	23.55	23.40	23.40	48800
## 2016-09-30	23.35	23.45	23.25	23.25	126826
## 2016-10-03	23.25	23.90	23.25	23.60	120800
## 2016-10-04	23.50	23.65	23.35	23.45	68400
## 2016-10-05	23.35	23.55	23.35	23.50	32000
## 2016-10-06	23.45	23.60	23.45	23.55	92533
## 2016-10-07	23.50	23.50	23.30	23.35	106000
## 2016-10-11	23.35	23.65	23.15	23.15	224400
## 2016-10-12	23.20	23.25	23.10	23.15	144800
## 2016-10-13	23.40	23.40	23.00	23.00	180000
## 2016-10-14	23.00	23.25	23.00	23.20	113226
## 2016-10-17	23.20	23.30	23.20	23.20	72400
## 2016-10-18	23.30	23.30	23.05	23.25	199791
## 2016-10-19	23.30	23.30	23.15	23.25	41411
## 2016-10-20	23.20	23.25	23.00	23.20	98000
## 2016-10-21	23.20	23.20	23.20	23.20	0

## 2016-10-24	23.10	23.30	23.10	23.25	61200
## 2016-10-25	23.30	23.40	23.25	23.35	84000
## 2016-10-26	23.30	23.40	23.25	23.40	69200
## 2016-10-27	23.40	23.40	23.30	23.40	42400
## 2016-10-28	23.30	23.40	23.25	23.35	95600
## 2016-10-31	23.35	23.45	23.35	23.45	86800
## 2016-11-01	23.45	23.50	23.30	23.40	209338
## 2016-11-02	23.35	23.50	23.20	23.35	86800
## 2016-11-03	23.20	23.90	23.20	23.85	554121
## 2016-11-04	23.75	23.85	23.45	23.50	66400
## 2016-11-07	23.55	23.55	23.40	23.50	170400
## 2016-11-08	23.60	23.65	23.45	23.55	65200
## 2016-11-09	23.40	23.50	23.05	23.30	185200
## 2016-11-10	23.35	23.60	23.30	23.50	48000
## 2016-11-11	23.40	23.45	23.15	23.15	159277
## 2016-11-14	23.10	23.15	23.05	23.10	134400
## 2016-11-15	23.10	23.20	23.10	23.10	54000
## 2016-11-16	23.10	23.35	23.10	23.30	54643
## 2016-11-17	23.20	23.40	23.10	23.20	72800
## 2016-11-18	23.15	23.30	23.15	23.20	53307
## 2016-11-21	23.20	23.20	23.05	23.20	67200
## 2016-11-22	23.15	23.25	23.15	23.20	73600
## 2016-11-23	23.20	23.25	23.10	23.20	81459
## 2016-11-24	23.10	23.15	23.00	23.10	135306
## 2016-11-25	23.15	23.15	23.00	23.10	104000
## 2016-11-28	23.15	23.20	23.10	23.20	96000
## 2016-11-29	23.20	23.25	23.15	23.20	52000
## 2016-11-30	23.20	23.20	23.15	23.15	16000
## 2016-12-01	23.10	23.25	23.10	23.15	56800
## 2016-12-02	23.10	23.15	22.65	22.70	317368
## 2016-12-05	22.70	22.80	22.55	22.55	158000
## 2016-12-06	22.60	22.90	22.60	22.80	68200
## 2016-12-07	22.90	22.95	22.70	22.90	22400
## 2016-12-08	22.90	22.95	22.75	22.90	85115
## 2016-12-09	22.85	22.85	22.60	22.60	125600
## 2016-12-12	22.60	22.60	22.30	22.45	139200
## 2016-12-13	22.45	22.60	22.30	22.50	68400
## 2016-12-14	22.50	22.60	22.50	22.50	44400
## 2016-12-15	22.40	22.55	22.20	22.25	170000
## 2016-12-16	22.20	22.60	22.15	22.50	199200
## 2016-12-19	22.30	22.30	21.90	22.00	92404
## 2016-12-20	21.90	22.00	21.90	21.95	81600
## 2016-12-21	21.95	22.10	21.90	22.00	109169
## 2016-12-22	22.00	22.20	21.90	22.05	29223
## 2016-12-23	21.95	21.95	21.70	21.85	73600
## 2016-12-28	21.85	22.10	21.85	22.00	31200
## 2016-12-29	22.00	22.05	21.85	22.00	41200
## 2016-12-30	21.95	22.15	21.95	22.10	51200
## 2017-01-03	22.15	22.25	22.00	22.15	53200
## 2017-01-04	22.20	22.20	21.95	22.15	60652
## 2017-01-05	22.25	22.30	22.00	22.15	138400
## 2017-01-06	22.25	22.30	22.10	22.15	66400
## 2017-01-09	22.10	22.20	21.95	22.10	162000
## 2017-01-10	22.20	22.30	22.15	22.25	140000
## 2017-01-11	22.25	23.00	22.25	22.90	157200
## 2017-01-12	22.80	23.00	22.60	22.60	59600

## 2017-01-13	22.60	22.65	22.40	22.40	64858
## 2017-01-16	22.40	22.55	22.40	22.50	21200
## 2017-01-17	22.85	22.90	22.60	22.70	81600
## 2017-01-18	22.60	22.85	22.55	22.65	76800
## 2017-01-19	22.70	22.85	22.60	22.75	19310
## 2017-01-20	22.65	22.75	22.65	22.65	31200
## 2017-01-23	22.65	22.85	22.60	22.70	55510
## 2017-01-24	22.55	22.75	22.55	22.60	18400
## 2017-01-25	22.55	22.85	22.55	22.80	39600
## 2017-01-26	22.85	22.90	22.65	22.85	59600
## 2017-01-27	22.85	22.85	22.65	22.80	13600
## 2017-02-01	22.75	22.85	22.60	22.70	86400
## 2017-02-02	22.75	22.75	22.65	22.65	20800
## 2017-02-03	22.70	22.80	22.50	22.70	103600
## 2017-02-06	22.80	22.85	22.65	22.70	50400
## 2017-02-07	22.70	22.85	22.65	22.85	73200
## 2017-02-08	22.80	23.00	22.70	22.95	139988
## 2017-02-09	22.95	23.00	22.75	23.00	156670
## 2017-02-10	23.00	23.10	22.90	22.90	134000
## 2017-02-13	23.00	23.00	22.80	22.80	72953
## 2017-02-14	22.75	22.90	22.75	22.80	36800
## 2017-02-15	22.85	22.95	22.80	22.80	120000
## 2017-02-16	22.85	23.00	22.85	22.95	160000
## 2017-02-17	23.00	23.00	22.90	22.95	163600
## 2017-02-20	22.85	22.95	22.70	22.85	161200
## 2017-02-21	22.85	22.95	22.75	22.80	78800
## 2017-02-22	22.85	22.95	22.80	22.95	78400
## 2017-02-23	22.90	23.00	22.90	22.95	76961
## 2017-02-24	23.00	23.40	22.95	23.35	312402
## 2017-02-27	23.35	23.35	23.15	23.25	111381
## 2017-02-28	23.20	23.60	23.25	23.35	179347
## 2017-03-01	23.35	23.55	23.35	23.55	92000
## 2017-03-02	23.60	23.65	23.35	23.40	207200
## 2017-03-03	23.25	23.30	23.20	23.20	134400
## 2017-03-06	23.30	23.40	23.20	23.40	97523
## 2017-03-07	23.40	23.40	23.20	23.20	95200
## 2017-03-08	23.25	23.40	23.25	23.35	70015
## 2017-03-09	23.35	23.40	23.30	23.40	78500
## 2017-03-10	23.40	23.70	23.40	23.65	164000
## 2017-03-13	23.85	23.85	23.35	23.75	192790
## 2017-03-14	23.70	23.75	23.45	23.65	59600
## 2017-03-15	23.75	23.75	23.45	23.65	71600
## 2017-03-16	23.65	23.80	23.55	23.70	112800
## 2017-03-17	23.70	23.90	23.70	23.90	132400
## 2017-03-20	23.95	24.00	23.75	23.90	175200
## 2017-03-21	23.90	23.95	23.80	23.95	53200
## 2017-03-22	23.75	23.80	23.60	23.75	80515
## 2017-03-23	23.70	23.90	23.60	23.80	107600
## 2017-03-24	24.00	24.20	23.60	23.65	280800
## 2017-03-27	23.60	23.85	23.60	23.70	95200
## 2017-03-28	23.85	23.85	23.70	23.70	64000
## 2017-03-29	23.75	23.75	23.65	23.75	92000
## 2017-03-30	23.75	23.80	23.70	23.75	80800
## 2017-03-31	23.80	23.85	23.70	23.75	75361
## 2017-04-03	23.75	23.90	23.75	23.90	111200
## 2017-04-05	23.90	24.00	23.80	23.90	30046

## 2017-04-06	24.00	24.00	23.85	23.90	70800
## 2017-04-07	23.90	23.90	23.80	23.85	34800
## 2017-04-10	23.90	24.00	23.90	23.95	48000
## 2017-04-11	23.95	24.00	23.90	23.90	13600
## 2017-04-12	23.90	23.95	23.90	23.90	55200
## 2017-04-13	23.90	24.00	23.90	23.95	54800
## 2017-04-18	24.00	24.05	23.80	23.95	62800
## 2017-04-19	23.90	23.90	23.70	23.90	97200
## 2017-04-20	23.90	23.95	23.80	23.90	78800
## 2017-04-21	23.90	24.15	23.90	24.10	165600
## 2017-04-24	24.20	24.20	23.90	24.00	63767
## 2017-04-25	24.00	24.05	23.90	24.00	62800
## 2017-04-26	24.10	24.20	24.00	24.20	74800
## 2017-04-27	24.15	24.15	24.00	24.15	43711
## 2017-04-28	24.15	24.45	24.15	24.25	206740
## 2017-05-02	24.25	24.80	24.25	24.80	374445
## 2017-05-04	24.70	24.80	24.55	24.55	220800
## 2017-05-05	24.55	24.70	24.45	24.70	118800
## 2017-05-08	24.75	25.15	24.75	25.15	278521
## 2017-05-09	25.20	25.40	25.05	25.10	339407
## 2017-05-10	25.10	25.15	24.95	25.00	147200
## 2017-05-11	24.85	25.05	24.80	25.05	113611
## 2017-05-12	25.10	25.20	25.00	25.05	66441
## 2017-05-15	25.10	25.25	25.00	25.25	297600
## 2017-05-16	25.30	25.35	25.15	25.30	134000
## 2017-05-17	25.35	25.95	25.30	25.85	671357
## 2017-05-18	25.75	26.55	25.75	26.45	744000
## 2017-05-19	26.55	26.75	26.10	26.50	512910
## 2017-05-22	25.60	25.85	24.80	25.00	335600
## 2017-05-23	25.20	25.25	24.85	25.25	280789
## 2017-05-24	25.35	25.65	25.30	25.60	368126
## 2017-05-25	25.55	25.75	25.45	25.65	280000
## 2017-05-26	25.70	25.80	25.70	25.75	238400
## 2017-05-29	25.75	25.85	25.70	25.75	142595
## 2017-05-31	25.70	25.80	25.60	25.70	121149
## 2017-06-01	25.70	25.75	25.40	25.45	196101
## 2017-06-02	25.55	25.75	25.50	25.70	158128
## 2017-06-05	25.60	25.65	25.40	25.40	128000
## 2017-06-06	25.30	25.35	25.10	25.10	192993
## 2017-06-07	25.10	25.30	25.05	25.10	157600
## 2017-06-08	25.20	25.50	25.10	25.40	135509
## 2017-06-09	25.40	25.65	25.40	25.65	217957
## 2017-06-12	25.65	25.65	25.25	25.45	152822
## 2017-06-13	25.50	25.70	25.50	25.60	80005
## 2017-06-14	25.50	25.65	25.45	25.60	72224
## 2017-06-15	25.50	25.60	25.30	25.50	133028
## 2017-06-16	25.45	25.50	25.40	25.50	73200
## 2017-06-19	25.50	25.50	25.25	25.40	90000
## 2017-06-20	25.40	25.45	25.25	25.40	28000
## 2017-06-21	25.20	25.35	25.15	25.30	178800
## 2017-06-22	25.30	25.40	25.30	25.40	78400
## 2017-06-23	25.40	25.50	25.40	25.40	135600
## 2017-06-26	25.45	25.50	25.40	25.40	92000
## 2017-06-27	25.40	25.50	25.20	25.30	123031
## 2017-06-28	25.30	25.30	25.20	25.20	68800
## 2017-06-29	25.20	25.45	25.20	25.25	84453

## 2017-06-30	25.20	25.40	25.15	25.25	74400
## 2017-07-03	25.25	25.35	25.15	25.25	131600
## 2017-07-04	25.35	25.35	25.00	25.20	215601
## 2017-07-05	25.10	25.25	25.00	25.05	130000
## 2017-07-06	25.15	25.20	25.10	25.15	305200
## 2017-07-07	25.25	25.25	25.10	25.10	78400
## 2017-07-10	25.10	25.25	25.10	25.20	171389
## 2017-07-11	25.30	25.30	25.10	25.15	88000
## 2017-07-12	25.15	25.20	25.05	25.05	143200
## 2017-07-13	25.25	25.30	25.10	25.20	116352
## 2017-07-14	25.20	25.20	25.10	25.15	133156
## 2017-07-17	25.15	25.30	25.10	25.30	180800
## 2017-07-18	25.20	25.35	25.15	25.35	131411
## 2017-07-19	25.35	25.35	25.20	25.30	70800
## 2017-07-20	25.25	25.30	25.05	25.10	190947
## 2017-07-21	25.15	25.25	25.15	25.20	90650
## 2017-07-24	25.20	25.35	25.15	25.25	113282
## 2017-07-25	25.30	25.45	25.20	25.30	188800
## 2017-07-26	25.30	25.70	25.30	25.70	211004
## 2017-07-27	25.70	25.85	25.65	25.80	158000
## 2017-07-28	25.80	25.80	25.65	25.70	200582
## 2017-07-31	25.80	26.50	25.80	26.35	345600
## 2017-08-01	26.45	26.45	26.15	26.30	158800
## 2017-08-02	26.30	26.30	25.80	25.95	200516
## 2017-08-03	26.00	26.05	25.90	26.05	68800
## 2017-08-04	26.10	26.30	26.10	26.25	65988
## 2017-08-07	26.30	26.45	26.30	26.45	74486
## 2017-08-08	26.45	26.45	26.25	26.40	37800
## 2017-08-09	26.45	26.45	25.95	26.20	120400
## 2017-08-10	26.15	26.25	25.95	26.00	230247
## 2017-08-11	25.90	25.90	25.45	25.50	396080
## 2017-08-14	25.65	25.85	25.65	25.85	143200
## 2017-08-15	25.85	26.20	25.85	26.05	154400
## 2017-08-16	26.00	26.10	25.90	26.05	28566
## 2017-08-17	26.00	26.30	26.00	26.25	84400
## 2017-08-18	25.60	25.90	25.60	25.80	277670
## 2017-08-21	25.70	25.85	25.60	25.65	200481
## 2017-08-22	25.75	25.75	25.60	25.65	144400
## 2017-08-23	25.65	25.65	25.65	25.65	0
## 2017-08-24	25.65	25.75	25.50	25.65	184819
## 2017-08-25	25.65	25.75	25.55	25.70	66028
## 2017-08-28	25.75	25.85	25.70	25.80	75222
## 2017-08-29	25.80	25.80	25.55	25.70	91405
## 2017-08-30	25.70	26.00	25.40	25.55	341881
## 2017-08-31	25.70	25.85	25.55	25.70	88000
## 2017-09-01	25.50	25.50	25.20	25.40	109266
## 2017-09-04	25.40	25.45	25.25	25.30	53600
## 2017-09-05	25.25	25.30	25.05	25.25	109716
## 2017-09-06	25.35	25.35	25.00	25.30	98400
## 2017-09-07	25.25	25.30	25.05	25.25	61807
## 2017-09-08	25.25	25.25	25.10	25.20	53341
## 2017-09-11	25.25	25.25	25.10	25.20	107200
## 2017-09-12	25.15	25.25	25.10	25.20	78800
## 2017-09-13	25.10	25.10	24.90	24.95	482000
## 2017-09-14	25.00	25.05	24.75	24.80	302518
## 2017-09-15	24.80	24.80	24.55	24.60	244800



## 2017-09-18	24.60	24.75	24.55	24.60	293200
## 2017-09-19	24.60	24.65	24.50	24.50	301300
## 2017-09-20	24.55	24.60	24.50	24.55	223200
## 2017-09-21	24.55	24.65	24.50	24.55	129233
## 2017-09-22	24.60	24.65	24.50	24.60	83200
## 2017-09-25	24.50	24.65	24.50	24.55	68000
## 2017-09-26	24.55	24.55	24.50	24.55	85614
## 2017-09-27	24.50	24.55	24.45	24.55	112804
## 2017-09-28	24.60	24.95	24.60	24.85	54800
## 2017-09-29	24.65	24.80	24.65	24.75	38400
## 2017-10-03	24.95	24.95	24.70	24.80	47600
## 2017-10-04	24.85	24.90	24.50	24.80	128798
## 2017-10-06	24.80	24.80	24.55	24.80	112800
## 2017-10-09	24.95	25.30	24.85	25.15	358701
## 2017-10-10	25.00	25.35	25.00	25.35	124212
## 2017-10-11	25.35	25.45	25.20	25.40	223300
## 2017-10-12	25.20	25.40	25.20	25.35	109400
## 2017-10-13	25.30	25.35	25.20	25.30	91028
## 2017-10-16	25.20	25.20	25.00	25.15	121200
## 2017-10-17	25.10	25.15	24.80	24.90	261234
## 2017-10-18	24.90	25.10	24.90	25.05	67200
## 2017-10-19	25.00	25.10	25.00	25.05	55416
## 2017-10-20	25.05	25.10	24.95	24.95	68400
## 2017-10-23	25.00	25.00	24.90	25.00	60000
## 2017-10-24	24.90	25.00	24.80	24.80	104400
## 2017-10-25	24.90	25.00	24.90	24.95	79648
## 2017-10-26	24.80	24.85	24.80	24.80	84912
## 2017-10-27	24.95	25.20	24.95	25.05	119400
## 2017-10-30	25.05	25.30	24.90	24.95	140578
## 2017-10-31	24.90	25.30	24.90	24.95	87600
## 2017-11-01	24.95	25.05	24.95	25.00	48800
## 2017-11-02	25.00	25.05	24.90	25.00	96840
## 2017-11-03	25.05	25.05	24.90	24.95	81567
## 2017-11-06	24.90	24.95	24.80	24.90	144905
## 2017-11-07	24.90	24.90	24.80	24.85	108400
## 2017-11-08	24.85	24.95	24.80	24.90	52800
## 2017-11-09	24.95	25.00	24.75	24.75	93100
## 2017-11-10	24.85	24.85	24.80	24.80	94539
## 2017-11-13	24.80	24.80	24.65	24.65	161231
## 2017-11-14	24.70	24.70	24.55	24.60	130530
## 2017-11-15	24.70	24.70	24.50	24.55	94041
## 2017-11-16	24.60	24.60	24.50	24.50	57600
## 2017-11-17	24.55	24.55	24.30	24.40	190400
## 2017-11-20	24.30	24.35	24.20	24.35	102368
## 2017-11-21	24.35	24.40	24.20	24.25	147444
## 2017-11-22	24.25	24.35	24.05	24.05	196202
## 2017-11-23	24.10	24.20	24.00	24.15	131965
## 2017-11-24	24.10	24.25	24.05	24.05	216400
## 2017-11-27	24.30	24.60	24.20	24.60	44800
## 2017-11-28	24.60	24.60	24.10	24.20	152800
## 2017-11-29	24.25	24.30	24.15	24.25	138000
## 2017-11-30	24.30	24.40	24.10	24.40	137497
## 2017-12-01	24.40	24.75	24.10	24.35	176400
## 2017-12-04	24.35	24.50	24.35	24.40	55200
## 2017-12-05	24.40	24.60	24.20	24.40	98439
## 2017-12-06	24.50	24.50	24.10	24.35	243600

## 2017-12-07	24.40	24.55	24.30	24.40	116400
## 2017-12-08	24.50	24.50	24.30	24.30	85200
## 2017-12-11	24.30	24.60	24.30	24.50	85600
## 2017-12-12	24.60	24.70	24.35	24.45	72000
## 2017-12-13	24.50	24.60	24.25	24.45	89656
## 2017-12-14	24.45	24.60	24.40	24.40	76800
## 2017-12-15	24.40	24.45	24.25	24.35	184652
## 2017-12-18	24.25	24.35	24.25	24.25	129514
## 2017-12-19	24.30	24.40	24.20	24.35	83811
## 2017-12-20	24.40	24.40	24.30	24.30	30000
## 2017-12-21	24.45	24.45	24.30	24.45	25200
## 2017-12-22	24.45	24.45	24.35	24.45	23761
## 2017-12-27	24.35	24.75	24.35	24.75	89602
## 2017-12-28	24.75	25.05	24.70	24.85	136139
## 2017-12-29	24.95	25.25	24.80	25.15	96800
## 2018-01-02	25.15	25.15	24.90	25.00	107200
## 2018-01-03	24.95	25.00	24.75	24.90	74811
## 2018-01-04	24.90	25.00	24.75	24.80	54000
## 2018-01-05	24.80	24.85	24.70	24.75	118400
## 2018-01-08	24.75	24.75	24.60	24.70	55600
## 2018-01-09	24.60	24.80	24.60	24.75	58800
## 2018-01-10	24.75	24.75	24.60	24.75	71071
## 2018-01-11	24.85	24.85	24.40	24.60	137184
## 2018-01-12	24.60	24.80	24.60	24.75	74612
## 2018-01-15	24.70	24.75	24.65	24.65	60400
## 2018-01-16	24.70	24.70	24.65	24.70	42000
## 2018-01-17	24.70	24.70	24.60	24.70	110400
## 2018-01-18	24.65	24.80	24.60	24.75	201600
## 2018-01-19	24.70	24.80	24.65	24.70	73447
## 2018-01-22	24.65	24.65	24.55	24.60	107446
## 2018-01-23	24.55	24.65	24.50	24.55	219715
## 2018-01-24	24.45	24.65	24.45	24.55	161292
## 2018-01-25	24.55	24.70	24.50	24.60	81656
## 2018-01-26	24.55	24.70	24.55	24.60	137651
## 2018-01-29	24.60	24.60	24.50	24.55	145288
## 2018-01-30	24.50	24.55	24.40	24.45	164800
## 2018-01-31	24.45	24.50	24.35	24.50	75107
## 2018-02-01	24.40	24.55	24.40	24.45	59600
## 2018-02-02	24.45	24.50	24.35	24.35	79083
## 2018-02-05	24.30	24.40	24.05	24.25	159366
## 2018-02-06	24.00	24.15	23.65	23.90	583839
## 2018-02-07	23.90	24.15	23.80	23.85	174400
## 2018-02-08	23.85	24.00	23.60	23.65	114800
## 2018-02-09	23.40	23.40	23.00	23.30	377971
## 2018-02-12	23.20	23.20	22.30	23.00	423688
## 2018-02-13	22.95	23.50	22.95	23.25	194669
## 2018-02-14	23.25	23.25	22.90	23.10	179200
## 2018-02-15	23.15	23.30	22.95	23.10	160400
## 2018-02-20	23.10	23.45	23.00	23.35	117600
## 2018-02-21	23.50	23.65	23.30	23.55	80430
## 2018-02-22	23.50	23.65	23.35	23.65	43200
## 2018-02-23	23.55	23.80	23.50	23.75	81152
## 2018-02-26	23.65	23.75	23.25	23.60	124800
## 2018-02-27	23.70	23.75	23.50	23.55	127393
## 2018-02-28	23.45	23.50	23.30	23.45	63711
## 2018-03-01	23.60	23.60	23.30	23.40	64800

## 2018-03-02	23.30	23.40	23.15	23.15	146400
## 2018-03-05	23.00	23.20	22.90	23.05	92801
## 2018-03-06	23.10	23.15	22.90	23.10	143423
## 2018-03-07	23.00	23.15	22.95	23.10	112000
## 2018-03-08	23.05	23.10	22.80	22.95	177626
## 2018-03-09	22.85	23.00	22.80	22.90	238400
## 2018-03-12	22.95	23.40	22.95	23.20	169200
## 2018-03-13	23.20	23.25	23.10	23.15	110800
## 2018-03-14	23.10	23.10	22.95	23.05	95041
## 2018-03-15	23.10	23.35	23.10	23.10	74842
## 2018-03-16	23.00	23.20	23.00	23.15	46800
## 2018-03-19	23.20	23.35	23.15	23.15	86000
## 2018-03-20	23.10	23.20	23.00	23.05	122000
## 2018-03-21	23.00	23.50	23.00	23.05	114000
## 2018-03-22	23.20	23.45	23.05	23.20	48400
## 2018-03-23	23.00	23.45	22.90	23.15	262059
## 2018-03-26	23.00	23.15	22.95	23.10	131200
## 2018-03-27	23.10	23.30	23.05	23.25	90800
## 2018-03-28	23.25	23.25	23.05	23.10	152304
## 2018-03-29	23.10	23.15	23.05	23.10	43600
## 2018-04-03	23.20	23.25	23.10	23.15	64055
## 2018-04-04	23.15	23.30	23.15	23.15	36400
## 2018-04-06	23.20	23.20	23.10	23.15	67600
## 2018-04-09	23.25	23.25	23.20	23.20	67200
## 2018-04-10	23.20	23.20	23.10	23.15	59200
## 2018-04-11	23.15	23.25	23.10	23.25	56400
## 2018-04-12	23.20	23.20	23.10	23.15	58225
## 2018-04-13	23.20	23.30	23.15	23.20	23200
## 2018-04-16	23.20	23.25	23.15	23.20	64837
## 2018-04-17	23.20	23.75	23.20	23.75	122300
## 2018-04-18	23.60	23.70	23.30	23.40	120600
## 2018-04-19	23.40	23.70	23.40	23.50	61600
## 2018-04-20	23.50	23.60	23.45	23.55	42863
## 2018-04-23	23.55	23.65	23.45	23.60	36000
## 2018-04-24	23.50	23.70	23.50	23.65	62698
## 2018-04-25	23.65	23.90	23.50	23.85	69681
## 2018-04-26	23.80	23.80	23.55	23.60	54000
## 2018-04-27	23.50	23.70	23.50	23.60	37600
## 2018-04-30	23.60	23.85	23.60	23.80	18800
## 2018-05-02	23.80	23.85	23.70	23.80	34518
## 2018-05-03	23.80	23.85	23.70	23.75	25200
## 2018-05-04	23.80	23.80	23.50	23.55	89577
## 2018-05-07	23.70	23.70	23.50	23.50	19600
## 2018-05-08	23.45	23.55	23.45	23.50	50419
## 2018-05-09	23.50	23.70	23.50	23.65	34419
## 2018-05-10	23.60	23.70	23.50	23.60	113200
## 2018-05-11	23.60	24.00	23.60	23.90	84465
## 2018-05-14	23.90	24.10	23.80	24.00	84442
## 2018-05-15	24.10	24.15	23.80	24.10	116800
## 2018-05-16	24.25	24.25	23.95	24.10	81200
## 2018-05-17	24.15	24.15	23.95	23.95	129650
## 2018-05-18	24.05	24.15	24.00	24.10	114400
## 2018-05-21	23.50	23.50	22.45	23.00	202000
## 2018-05-23	23.00	23.05	22.75	22.90	104800
## 2018-05-24	23.00	23.10	22.90	23.05	65200
## 2018-05-25	23.00	23.05	22.90	23.00	54000

## 2018-05-28	22.90	23.00	22.80	22.80	67200
## 2018-05-29	22.80	22.90	22.70	22.75	110802
## 2018-05-30	23.25	23.25	22.70	22.80	80796
## 2018-05-31	22.80	22.90	22.70	22.90	26000
## 2018-06-01	22.90	23.30	22.90	23.20	55200
## 2018-06-04	23.20	23.30	23.00	23.25	65812
## 2018-06-05	23.30	23.30	23.05	23.05	23862
## 2018-06-06	23.10	23.10	22.90	23.00	57200
## 2018-06-07	23.00	23.50	23.00	23.35	116790
## 2018-06-08	23.35	23.35	23.15	23.30	97200
## 2018-06-11	23.30	23.30	23.10	23.15	92400
## 2018-06-12	23.15	23.20	23.15	23.15	17200
## 2018-06-13	23.15	23.30	23.10	23.20	65600
## 2018-06-14	23.10	23.15	23.00	23.00	186000
## 2018-06-15	23.00	23.15	23.00	23.00	84800
## 2018-06-19	23.00	23.00	22.75	22.80	249805
## 2018-06-20	22.80	23.00	22.80	22.85	54800
## 2018-06-21	23.00	23.00	22.70	22.85	65200
## 2018-06-22	22.75	22.95	22.70	22.85	100070
## 2018-06-25	22.75	22.75	22.60	22.60	70000
## 2018-06-26	22.60	22.80	22.55	22.70	94636
## 2018-06-27	23.00	23.00	22.50	22.75	106400
## 2018-06-28	22.65	22.70	22.50	22.60	45200
## 2018-06-29	22.50	22.60	22.50	22.50	55200
## 2018-07-03	22.50	22.50	22.05	22.35	149302
## 2018-07-04	22.40	22.90	22.40	22.55	145200
## 2018-07-05	22.55	22.80	22.55	22.80	82877
## 2018-07-06	22.60	22.75	22.30	22.75	110400
## 2018-07-09	22.75	22.75	22.40	22.50	120800
## 2018-07-10	22.40	22.65	22.40	22.45	59200
## 2018-07-11	22.40	22.50	22.40	22.45	32800
## 2018-07-12	22.60	22.70	22.30	22.35	54400
## 2018-07-13	22.35	22.50	22.35	22.50	38800
## 2018-07-16	22.50	22.50	22.35	22.45	33600
## 2018-07-17	22.40	22.40	22.10	22.40	160800
## 2018-07-18	22.35	22.50	22.35	22.40	47182
## 2018-07-19	22.45	22.55	22.40	22.45	32800
## 2018-07-20	22.45	22.45	22.25	22.40	56400
## 2018-07-23	22.50	22.50	22.25	22.30	66400
## 2018-07-24	22.30	22.60	22.30	22.50	91872
## 2018-07-25	22.50	22.50	22.45	22.50	91214
## 2018-07-26	22.50	22.50	22.30	22.50	33200
## 2018-07-27	22.40	22.55	22.35	22.45	34400
## 2018-07-30	22.45	22.65	22.45	22.60	34000
## 2018-07-31	22.50	22.80	22.50	22.70	18800
## 2018-08-01	22.70	22.85	22.70	22.80	47938
## 2018-08-02	22.80	22.80	22.50	22.70	70817
## 2018-08-03	22.60	22.70	22.45	22.50	32188
## 2018-08-06	22.60	22.65	22.40	22.50	144278
## 2018-08-07	22.50	22.70	22.45	22.70	48400
## 2018-08-08	22.80	22.80	22.55	22.80	68047
## 2018-08-09	22.80	22.80	22.60	22.65	41283
## 2018-08-10	22.75	22.75	22.60	22.65	41599
## 2018-08-13	22.55	22.65	22.45	22.50	50400
## 2018-08-14	22.55	22.70	22.45	22.50	71412
## 2018-08-15	22.50	22.50	22.25	22.35	120557

## 2018-08-16	22.30	22.50	22.30	22.40	76400
## 2018-08-17	21.85	22.25	21.65	21.85	540626
## 2018-08-20	21.85	21.90	21.50	21.75	156668
## 2018-08-21	21.75	21.90	21.65	21.90	29200
## 2018-08-22	21.95	21.95	21.70	21.75	82784
## 2018-08-23	21.75	21.95	21.75	21.80	46000
## 2018-08-24	21.80	22.10	21.80	21.95	48800
## 2018-08-27	22.00	22.10	21.85	21.90	71200
## 2018-08-28	22.00	22.00	21.85	21.85	26400
## 2018-08-29	21.85	21.90	21.70	21.85	171200
## 2018-08-30	21.75	22.00	21.75	21.80	136800
## 2018-08-31	21.70	21.75	21.40	21.40	83200
## 2018-09-03	21.60	21.60	21.30	21.35	113200
## 2018-09-04	21.25	21.30	21.15	21.20	196400
## 2018-09-05	21.10	21.20	20.90	21.00	189174
## 2018-09-06	20.85	21.00	20.70	20.75	154371
## 2018-09-07	20.75	20.75	20.20	20.45	255746
## 2018-09-10	20.50	20.50	20.20	20.40	167600
## 2018-09-11	20.40	20.50	20.35	20.40	107637
## 2018-09-12	20.40	20.40	20.05	20.10	205200
## 2018-09-13	20.15	20.45	20.10	20.45	122400
## 2018-09-14	20.40	20.60	20.40	20.50	48000
## 2018-09-17	20.50	20.60	20.35	20.45	48400
## 2018-09-18	20.50	20.65	20.50	20.50	40400
## 2018-09-19	20.70	20.90	20.50	20.60	65200
## 2018-09-20	20.60	20.70	20.45	20.45	34000
## 2018-09-21	20.45	20.50	20.45	20.50	57465
## 2018-09-24	20.90	20.90	20.50	20.60	40000
## 2018-09-26	20.50	20.70	20.35	20.40	140498
## 2018-09-27	20.50	20.50	20.30	20.35	45943
## 2018-09-28	20.45	20.60	20.35	20.50	37600
## 2018-10-02	20.50	20.50	20.40	20.45	32000
## 2018-10-03	20.30	20.50	20.30	20.40	35200
## 2018-10-04	20.40	20.50	20.40	20.40	69600
## 2018-10-05	20.40	20.45	20.40	20.40	131647
## 2018-10-08	20.40	20.45	20.10	20.25	109647
## 2018-10-09	20.25	20.50	20.00	20.30	72800
## 2018-10-10	20.40	20.45	20.20	20.25	132000
## 2018-10-11	20.25	20.25	20.00	20.00	200791
## 2018-10-12	20.10	20.35	20.00	20.00	103137
## 2018-10-15	20.05	20.10	19.90	19.94	77600
## 2018-10-16	19.96	20.15	19.96	19.98	73372
## 2018-10-18	19.96	20.05	19.92	19.92	50389
## 2018-10-19	19.90	19.94	19.88	19.90	60485
## 2018-10-22	19.90	20.10	19.90	20.05	52400
## 2018-10-23	20.00	20.10	19.94	19.96	54000
## 2018-10-24	19.88	20.00	19.88	19.88	61647
## 2018-10-25	19.86	19.86	19.60	19.60	108665
## 2018-10-26	19.60	19.68	19.50	19.54	54840
## 2018-10-29	19.50	19.52	19.42	19.48	97245
## 2018-10-30	19.42	19.48	19.38	19.48	66000
## 2018-10-31	19.48	19.50	19.44	19.50	33597
## 2018-11-01	19.60	19.74	19.42	19.66	78341
## 2018-11-02	19.82	19.90	19.82	19.86	55200
## 2018-11-05	19.82	19.96	19.80	19.90	4000
## 2018-11-06	19.96	20.20	19.84	20.00	36000

## 2018-11-07	20.10	20.20	20.00	20.05	56707
## 2018-11-08	20.00	20.20	20.00	20.10	47260
## 2018-11-09	20.10	20.10	19.80	19.94	58045
## 2018-11-12	19.80	20.00	19.78	20.00	33600
## 2018-11-13	19.86	20.10	19.82	19.92	20800
## 2018-11-14	20.00	20.55	19.90	20.40	170628
## 2018-11-15	20.55	20.70	20.40	20.65	38966
## 2018-11-16	20.55	20.70	20.40	20.55	52800
## 2018-11-19	20.55	20.60	20.40	20.50	28000
## 2018-11-20	20.30	20.50	20.30	20.40	46400
## 2018-11-21	20.45	20.65	20.40	20.45	36000
## 2018-11-22	20.45	20.80	20.45	20.60	76038
## 2018-11-23	20.60	21.00	20.60	20.85	90000
## 2018-11-26	21.05	21.30	21.00	21.15	107662
## 2018-11-27	21.20	21.30	21.15	21.20	87600
## 2018-11-28	21.20	21.30	21.10	21.20	24519
## 2018-11-29	21.20	21.20	20.95	21.10	86400
## 2018-11-30	21.15	21.20	21.00	21.15	20000
## 2018-12-03	21.20	21.30	21.10	21.10	37200
## 2018-12-04	21.15	21.50	21.15	21.30	151428
## 2018-12-05	21.10	21.45	21.10	21.35	43200
## 2018-12-06	21.20	21.30	21.05	21.10	84128
## 2018-12-07	21.20	21.55	21.20	21.35	123600
## 2018-12-10	21.35	21.45	21.05	21.30	51611
## 2018-12-11	21.40	21.40	20.95	21.15	79600
## 2018-12-12	21.30	21.30	21.10	21.30	26400
## 2018-12-13	21.30	21.35	21.20	21.20	23600
## 2018-12-14	21.20	21.30	21.20	21.30	12600
## 2018-12-17	21.25	21.25	21.00	21.25	50538
## 2018-12-18	21.20	21.25	20.95	20.95	215600
## 2018-12-19	21.00	21.20	20.95	21.15	136000
## 2018-12-20	21.15	21.40	21.15	21.40	111200
## 2018-12-21	21.45	21.75	21.25	21.70	162800
## 2018-12-24	21.50	21.60	21.50	21.60	20000
## 2018-12-27	21.60	21.75	21.55	21.55	42805
## 2018-12-28	21.55	21.70	21.50	21.55	74327
## 2018-12-31	21.65	21.70	21.30	21.60	33200
## 2019-01-02	21.60	21.60	21.40	21.50	35640
## 2019-01-03	21.45	21.50	21.35	21.50	50000
## 2019-01-04	21.50	21.60	21.40	21.60	98000
## 2019-01-07	21.55	21.70	21.35	21.60	86800
## 2019-01-08	21.50	21.65	21.50	21.55	51200
## 2019-01-09	21.65	21.70	21.40	21.45	64456
## 2019-01-10	21.55	21.65	21.30	21.55	62405
## 2019-01-11	21.50	21.70	21.50	21.55	21200
## 2019-01-14	21.65	21.65	21.50	21.50	40800
## 2019-01-15	21.55	21.65	21.50	21.60	52800
## 2019-01-16	21.65	21.70	21.60	21.65	29200
## 2019-01-17	21.70	21.75	21.65	21.65	47200
## 2019-01-18	21.70	21.80	21.65	21.75	75418
## 2019-01-21	21.75	21.95	21.75	21.95	55400
## 2019-01-22	21.90	22.00	21.90	21.90	77200
## 2019-01-23	22.00	22.15	22.00	22.10	46004
## 2019-01-24	22.10	22.45	22.10	22.35	100330
## 2019-01-25	22.45	23.50	22.40	22.95	218846
## 2019-01-28	22.95	22.95	22.70	22.80	82329

## 2019-01-29	22.80	23.00	22.70	22.80	57200
## 2019-01-30	22.75	22.90	22.70	22.85	28842
## 2019-01-31	22.70	22.70	22.50	22.60	157104
## 2019-02-01	22.70	22.80	22.60	22.80	34400
## 2019-02-04	22.80	22.90	22.75	22.85	41870
## 2019-02-08	22.85	22.95	22.80	22.90	97600
## 2019-02-11	22.90	23.00	22.80	22.95	54047
## 2019-02-12	23.05	23.05	22.85	23.00	72442
## 2019-02-13	22.90	23.00	22.85	22.95	78800
## 2019-02-14	22.80	23.00	22.70	22.80	69176
## 2019-02-15	22.70	22.85	22.60	22.65	34000
## 2019-02-18	22.70	23.00	22.70	22.90	51600
## 2019-02-19	22.70	22.90	22.70	22.70	74257
## 2019-02-20	22.75	23.00	22.75	22.80	94400
## 2019-02-21	22.75	23.00	22.80	22.90	124400
## 2019-02-22	23.05	23.10	22.95	23.05	145113
## 2019-02-25	23.05	23.15	22.95	23.15	81200
## 2019-02-26	23.15	23.30	23.05	23.30	88800
## 2019-02-27	23.20	23.30	23.00	23.20	28800
## 2019-02-28	23.20	23.30	23.00	23.20	66800
## 2019-03-01	23.10	23.65	23.05	23.45	122062
## 2019-03-04	23.35	23.45	23.15	23.15	35200
## 2019-03-05	23.15	23.35	23.15	23.20	18000
## 2019-03-06	23.30	23.35	23.05	23.35	28400
## 2019-03-07	23.50	23.55	23.20	23.20	92400
## 2019-03-08	23.15	23.30	23.00	23.05	87223
## 2019-03-11	23.00	23.25	22.90	23.20	113124
## 2019-03-12	23.00	23.30	23.00	23.25	120400
## 2019-03-13	23.25	23.40	23.20	23.40	44000
## 2019-03-14	23.40	23.45	23.35	23.45	48400
## 2019-03-15	23.10	23.40	23.05	23.40	53600
## 2019-03-18	23.10	23.50	23.05	23.50	87600
## 2019-03-19	23.50	23.50	23.35	23.45	40400
## 2019-03-20	23.50	23.60	23.45	23.60	172400
## 2019-03-21	23.35	23.55	23.10	23.20	98807
## 2019-03-22	23.00	23.55	23.00	23.30	205111
## 2019-03-25	23.25	23.45	23.25	23.25	60400
## 2019-03-26	23.35	23.45	23.30	23.40	93200
## 2019-03-27	23.45	23.50	23.30	23.40	68400
## 2019-03-28	23.50	23.65	23.40	23.65	102924
## 2019-03-29	23.65	23.85	23.50	23.70	226440
## 2019-04-01	23.65	23.95	23.55	23.75	121611
## 2019-04-02	23.70	23.70	23.55	23.65	93200
## 2019-04-03	23.60	23.80	23.60	23.80	66800
## 2019-04-04	23.80	23.80	23.60	23.65	64400
## 2019-04-08	23.70	23.80	23.60	23.70	38400
## 2019-04-09	23.85	23.95	23.65	23.85	88955
## 2019-04-10	23.85	23.85	23.75	23.75	35833
## 2019-04-11	23.85	24.10	23.85	24.00	256800
## 2019-04-12	24.00	24.55	24.00	24.50	354800
## 2019-04-15	24.50	24.50	24.10	24.20	109751
## 2019-04-16	24.20	24.30	24.00	24.10	57600
## 2019-04-17	24.00	24.30	23.95	24.20	105600
## 2019-04-18	24.10	24.30	24.05	24.25	36000
## 2019-04-23	24.15	24.25	24.10	24.20	78410
## 2019-04-24	24.25	24.25	23.60	23.85	124400

## 2019-04-25	23.80	24.15	23.80	24.00	60400
## 2019-04-26	23.90	24.15	23.90	24.00	29215
## 2019-04-29	24.05	24.15	23.90	23.90	34949
## 2019-04-30	24.05	24.10	23.85	23.95	22753
## 2019-05-02	23.90	24.00	23.90	23.90	36237
## 2019-05-03	24.10	24.20	23.95	24.15	88800
## 2019-05-06	24.00	24.20	23.75	24.20	148400
## 2019-05-07	24.10	24.25	24.00	24.15	174000
## 2019-05-08	24.10	24.15	23.90	24.15	59800
## 2019-05-09	23.95	23.95	23.75	23.75	137200
## 2019-05-10	23.90	24.10	23.60	23.85	104816
## 2019-05-14	23.85	24.00	23.65	23.80	88167
## 2019-05-15	23.80	24.15	23.80	23.95	92518
## 2019-05-16	24.10	24.15	23.90	24.05	59600
## 2019-05-17	24.05	24.10	23.85	23.95	145600
## 2019-05-20	23.20	23.20	22.80	23.00	129400
## 2019-05-21	23.00	23.00	22.80	22.85	44000
## 2019-05-22	22.90	22.90	22.80	22.80	65672
## 2019-05-23	22.80	22.80	22.60	22.60	79600
## 2019-05-24	22.80	22.80	22.70	22.70	50800
## 2019-05-27	22.80	22.80	22.60	22.65	51600
## 2019-05-28	22.65	22.90	22.60	22.60	71205
## 2019-05-29	22.60	22.75	22.60	22.70	17200
## 2019-05-30	22.70	22.80	22.60	22.70	63316
## 2019-05-31	22.65	22.80	22.60	22.75	41212
## 2019-06-03	22.65	22.70	22.45	22.55	128839
## 2019-06-04	22.55	22.65	22.45	22.45	60800
## 2019-06-05	22.60	22.60	22.40	22.45	40800
## 2019-06-06	22.55	22.55	22.45	22.50	84046
## 2019-06-10	22.50	22.75	22.50	22.60	49200
## 2019-06-11	22.70	22.85	22.60	22.80	151241
## 2019-06-12	22.60	22.75	22.50	22.55	62041
## 2019-06-13	22.50	22.65	22.40	22.50	54545
## 2019-06-14	22.50	22.65	22.45	22.60	18400
## 2019-06-17	22.60	22.75	22.50	22.50	88400
## 2019-06-18	22.50	22.70	22.50	22.55	25236
## 2019-06-19	22.70	22.90	22.70	22.80	105600
## 2019-06-20	23.00	23.35	23.00	23.35	192059
## 2019-06-21	23.10	23.10	22.15	22.70	368808
## 2019-06-24	22.80	22.90	22.75	22.75	66196
## 2019-06-25	22.85	22.85	22.70	22.75	80000
## 2019-06-26	22.75	22.90	22.75	22.90	38400
## 2019-06-27	22.90	23.05	22.80	23.00	26869
## 2019-06-28	23.00	23.00	22.90	22.95	43200
## 2019-07-02	22.95	23.00	22.80	22.90	75201
## 2019-07-03	22.90	23.05	22.90	22.90	107600
## 2019-07-04	23.00	23.00	22.90	23.00	137200
## 2019-07-05	23.00	23.05	22.95	22.95	106703
## 2019-07-08	23.05	23.05	22.90	22.95	46918
## 2019-07-09	22.90	23.10	22.80	23.00	118800
## 2019-07-10	23.00	23.20	22.95	23.20	64805
## 2019-07-11	23.20	23.45	23.10	23.40	157651
## 2019-07-12	23.50	23.60	23.35	23.50	145200
## 2019-07-15	23.45	23.50	23.25	23.25	84400
## 2019-07-16	23.30	23.35	23.25	23.25	34000
## 2019-07-17	23.25	23.35	23.15	23.20	36847



## 2019-07-18	23.25	23.25	23.05	23.05	132000
## 2019-07-19	23.05	23.30	23.00	23.10	50400
## 2019-07-22	23.20	23.20	23.00	23.05	49600
## 2019-07-23	23.05	23.15	22.95	22.95	80800
## 2019-07-24	23.10	23.10	22.85	22.90	97884
## 2019-07-25	22.90	23.00	22.85	22.85	50883
## 2019-07-26	22.80	22.95	22.80	22.90	72803
## 2019-07-29	22.80	22.80	22.50	22.65	165774
## 2019-07-30	22.70	22.75	22.50	22.60	126073
## 2019-07-31	22.70	22.70	22.45	22.50	124800
## 2019-08-01	22.50	22.65	22.30	22.45	136000
## 2019-08-02	22.45	22.45	22.20	22.30	148000
## 2019-08-05	22.20	22.20	21.60	21.70	238015
## 2019-08-06	21.65	21.65	21.00	21.40	185200
## 2019-08-07	21.45	21.80	21.40	21.70	133200
## 2019-08-08	21.70	21.90	21.50	21.70	135200
## 2019-08-09	21.70	21.70	21.45	21.45	83815
## 2019-08-12	21.45	21.45	20.80	20.90	241200
## 2019-08-13	20.70	20.70	20.05	20.20	153713
## 2019-08-14	20.40	20.75	20.20	20.20	145568
## 2019-08-15	20.00	20.45	20.00	20.45	198800
## 2019-08-16	20.40	20.85	20.40	20.75	222000
## 2019-08-19	21.00	21.25	21.00	21.25	157713
## 2019-08-20	21.25	21.25	20.80	21.00	86800
## 2019-08-21	20.95	21.25	20.90	21.00	137200
## 2019-08-22	20.95	21.00	20.70	20.75	121600
## 2019-08-23	20.75	20.80	20.55	20.60	145200
## 2019-08-26	20.40	20.50	20.00	20.25	214000
## 2019-08-27	20.45	20.65	20.35	20.40	122668
## 2019-08-28	20.40	20.55	20.30	20.30	99600
## 2019-08-29	20.45	20.60	20.20	20.25	149341
## 2019-08-30	20.00	20.25	19.92	19.98	125860
## 2019-09-02	20.00	20.00	19.66	19.88	256557
## 2019-09-03	19.72	19.88	19.70	19.70	63600
## 2019-09-04	19.70	20.40	19.70	20.10	143747
## 2019-09-05	20.25	20.25	19.92	19.98	105200
## 2019-09-06	20.10	20.25	20.10	20.10	200778
## 2019-09-09	20.20	20.30	19.94	19.96	154400
## 2019-09-10	20.00	20.10	19.98	20.00	71880
## 2019-09-11	20.00	20.30	19.94	19.98	315095
## 2019-09-12	20.10	20.10	19.96	19.96	108400
## 2019-09-13	19.96	20.05	19.96	20.00	102000
## 2019-09-16	20.00	20.05	19.90	19.92	127200
## 2019-09-17	19.96	20.00	19.82	19.82	128800
## 2019-09-18	19.90	19.94	19.82	19.82	56000
## 2019-09-19	19.82	19.90	19.76	19.76	85600
## 2019-09-20	19.80	19.82	19.70	19.76	51600
## 2019-09-23	19.74	19.74	19.64	19.68	94400
## 2019-09-24	19.66	19.80	19.62	19.80	47200
## 2019-09-25	19.74	19.78	19.60	19.60	64189
## 2019-09-26	19.68	19.68	19.58	19.68	47925
## 2019-09-27	19.62	19.70	19.58	19.62	39647
## 2019-09-30	19.74	19.80	19.66	19.72	42400
## 2019-10-02	19.68	19.76	19.68	19.70	22400
## 2019-10-03	19.72	19.72	19.56	19.60	61394
## 2019-10-04	19.62	19.76	19.32	19.44	137600

## 2019-10-08	19.46	19.54	19.36	19.42	100000
## 2019-10-09	19.58	19.62	19.50	19.60	43504
## 2019-10-10	19.50	19.50	19.40	19.44	38262
## 2019-10-11	19.42	19.66	19.42	19.62	99604
## 2019-10-14	19.70	19.80	19.60	19.72	180000
## 2019-10-15	19.80	20.00	19.78	19.96	48000
## 2019-10-16	20.00	20.35	20.00	20.25	100441
## 2019-10-17	20.25	20.75	20.25	20.50	137182
## 2019-10-18	20.80	20.80	20.50	20.60	108513
## 2019-10-21	20.60	20.75	20.35	20.45	46091
## 2019-10-22	20.40	20.70	20.40	20.55	38823
## 2019-10-23	20.65	20.90	20.60	20.60	160725
## 2019-10-24	20.65	20.80	20.55	20.65	39725
## 2019-10-25	20.80	20.90	20.65	20.80	82800
## 2019-10-28	20.95	20.95	20.80	20.90	33600
## 2019-10-29	20.90	21.00	20.65	20.80	44800
## 2019-10-30	20.80	20.90	20.75	20.75	19200
## 2019-10-31	20.80	20.90	20.60	20.70	65600
## 2019-11-01	20.70	20.90	20.60	20.70	52000
## 2019-11-04	20.75	20.80	20.70	20.75	56000
## 2019-11-05	20.85	20.85	20.70	20.70	39569
## 2019-11-06	20.80	20.80	20.60	20.70	108800
## 2019-11-07	20.80	20.80	20.65	20.80	23614
## 2019-11-08	20.80	20.90	20.60	20.60	124800
## 2019-11-11	20.60	20.70	20.30	20.30	62800
## 2019-11-12	20.30	20.40	20.20	20.35	57503
## 2019-11-13	20.20	20.20	19.90	20.00	106400
## 2019-11-14	20.05	20.05	19.94	20.00	69062
## 2019-11-15	19.94	19.94	19.90	19.90	85200
## 2019-11-18	19.90	20.40	19.90	20.05	56800
## 2019-11-19	20.35	20.35	19.90	20.20	32000
## 2019-11-20	20.40	20.40	20.00	20.30	22000
## 2019-11-21	20.05	20.20	20.00	20.10	29324
## 2019-11-22	20.20	20.25	20.00	20.00	34000
## 2019-11-25	20.55	20.55	20.20	20.30	57143
## 2019-11-26	20.30	20.30	20.10	20.20	36015
## 2019-11-27	20.30	20.30	20.10	20.25	37200
## 2019-11-28	20.20	20.70	20.20	20.45	57630
## 2019-11-29	20.45	20.45	20.15	20.35	28000
## 2019-12-02	20.35	20.35	19.48	20.00	120826
## 2019-12-03	19.98	20.20	19.94	20.00	13600
## 2019-12-04	20.00	20.10	19.98	19.98	99216
## 2019-12-05	19.94	20.20	19.94	20.00	83912
## 2019-12-06	20.20	20.20	20.00	20.05	33526
## 2019-12-09	20.10	20.20	19.90	20.00	134400
## 2019-12-10	20.00	20.20	20.00	20.10	40800
## 2019-12-11	20.05	20.20	20.00	20.05	110802
## 2019-12-12	20.05	20.20	20.00	20.00	61600
## 2019-12-13	20.20	20.30	20.05	20.15	44006
## 2019-12-16	20.05	20.20	20.05	20.05	58000
## 2019-12-17	20.05	20.25	20.00	20.05	103658
## 2019-12-18	20.10	20.20	20.10	20.20	70000
## 2019-12-19	20.15	20.15	20.05	20.10	52800
## 2019-12-20	20.25	20.25	20.10	20.20	61200
## 2019-12-23	20.20	20.30	20.10	20.15	82800
## 2019-12-24	20.15	20.20	20.15	20.15	31200

## 2019-12-27	20.15	20.25	20.15	20.20	75300
## 2019-12-30	20.20	20.25	20.15	20.15	111202
## 2019-12-31	20.20	20.25	20.15	20.20	27600
## 2020-01-02	20.25	20.25	20.20	20.20	74800
## 2020-01-03	20.25	20.25	20.15	20.15	76000
## 2020-01-06	20.00	20.15	20.00	20.05	137010
## 2020-01-07	20.05	20.15	19.98	19.98	134000
## 2020-01-08	19.94	20.05	19.94	20.00	63698
## 2020-01-09	20.10	20.20	20.10	20.15	36312
## 2020-01-10	20.25	20.25	20.05	20.20	48000
## 2020-01-13	20.20	20.20	20.00	20.10	310800
## 2020-01-14	20.25	20.50	20.00	20.45	544213
## 2020-01-15	20.40	20.45	20.20	20.30	144000
## 2020-01-16	20.45	20.45	20.10	20.40	74800
## 2020-01-17	20.45	20.70	20.40	20.70	156812
## 2020-01-20	20.65	20.75	20.60	20.65	95212
## 2020-01-21	20.65	20.65	20.30	20.30	108355
## 2020-01-22	20.40	20.45	20.25	20.30	81158
## 2020-01-23	20.20	20.30	20.10	20.20	90400
## 2020-01-24	20.15	20.20	20.10	20.15	52800
## 2020-01-29	19.80	19.92	19.58	19.82	180695
## 2020-01-30	19.80	19.80	19.60	19.66	123864
## 2020-01-31	19.86	19.86	19.60	19.62	90000
## 2020-02-03	19.60	19.62	19.50	19.60	86400
## 2020-02-04	19.60	19.72	19.60	19.68	63319
## 2020-02-05	19.68	19.68	19.60	19.60	92000
## 2020-02-06	19.60	19.76	19.60	19.70	142000
## 2020-02-07	19.60	19.78	19.60	19.74	48176
## 2020-02-10	19.80	19.80	19.48	19.54	146800
## 2020-02-11	19.54	19.66	19.48	19.54	96000
## 2020-02-12	19.52	19.70	19.48	19.56	123600
## 2020-02-13	19.56	19.70	19.56	19.62	28000
## 2020-02-14	19.56	19.62	19.48	19.56	119200
## 2020-02-17	19.62	19.62	19.52	19.56	98792
## 2020-02-18	19.56	19.58	19.46	19.58	155600
## 2020-02-19	19.40	19.58	19.40	19.52	72000
## 2020-02-20	19.50	19.66	19.50	19.50	89140
## 2020-02-21	19.48	19.64	19.44	19.56	73050
## 2020-02-24	19.50	19.58	19.36	19.38	211833
## 2020-02-25	19.36	19.40	19.24	19.24	169000
## 2020-02-26	19.24	19.46	19.20	19.28	103800
## 2020-02-27	19.30	19.40	19.26	19.30	65800
## 2020-02-28	19.30	19.30	19.06	19.16	300152
## 2020-03-02	19.14	19.16	19.00	19.10	172376
## 2020-03-03	19.10	19.20	19.02	19.02	84570
## 2020-03-04	19.00	19.00	18.90	18.92	140400
## 2020-03-05	18.94	19.20	18.94	19.12	83200
## 2020-03-06	19.20	19.38	18.94	18.96	99058
## 2020-03-09	19.36	19.36	18.70	18.70	285061
## 2020-03-10	18.70	19.06	18.64	18.90	134127
## 2020-03-11	18.90	19.00	18.86	18.86	108276
## 2020-03-12	18.86	18.86	18.38	18.40	159219
## 2020-03-13	18.20	18.20	17.22	17.92	408800
## 2020-03-16	17.80	17.80	17.28	17.48	135200
## 2020-03-17	17.42	17.42	17.04	17.12	148430
## 2020-03-18	17.12	17.30	16.34	16.42	336816

## 2020-03-19	16.50	16.60	15.54	15.98	288706
## 2020-03-20	16.04	16.30	16.02	16.16	254903
## 2020-03-23	15.96	15.98	15.60	15.80	145600
## 2020-03-24	16.00	16.00	15.72	15.92	121242
## 2020-03-25	15.96	16.60	15.96	16.58	120400
## 2020-03-26	16.50	16.50	16.28	16.40	59600
## 2020-03-27	16.80	16.80	16.54	16.80	126000
## 2020-03-30	16.50	16.50	16.22	16.28	95647
## 2020-03-31	16.30	16.40	16.24	16.32	149200
## 2020-04-01	16.30	16.60	16.18	16.34	125200
## 2020-04-02	16.34	16.68	16.18	16.34	58800
## 2020-04-03	16.38	16.50	16.28	16.48	62800
## 2020-04-06	16.68	16.84	16.68	16.80	174054
## 2020-04-07	16.98	17.02	16.88	17.00	242750
## 2020-04-08	17.00	17.00	16.82	16.88	76000
## 2020-04-09	16.92	17.14	16.92	17.12	116000
## 2020-04-14	17.20	17.44	17.12	17.38	152021
## 2020-04-15	17.40	17.50	17.14	17.14	195872
## 2020-04-16	17.20	17.20	16.92	17.08	111600
## 2020-04-17	17.20	17.46	17.28	17.32	122000
## 2020-04-20	17.10	17.42	17.10	17.32	43600
## 2020-04-21	17.10	17.12	16.84	17.08	146966
## 2020-04-22	16.98	17.08	16.88	17.08	72400
## 2020-04-23	17.06	17.14	17.06	17.10	60411
## 2020-04-24	17.10	17.10	16.98	16.98	63200
## 2020-04-27	17.12	17.14	16.94	17.08	27176
## 2020-04-28	17.08	17.30	17.00	17.30	156675
## 2020-04-29	17.34	17.46	17.26	17.46	86800
## 2020-05-04	17.22	17.50	17.14	17.26	99638
## 2020-05-05	17.30	17.44	17.20	17.36	52000
## 2020-05-06	17.34	17.44	17.20	17.28	92000
## 2020-05-07	17.20	17.28	17.14	17.22	41200
## 2020-05-08	17.28	17.30	17.24	17.30	45401
## 2020-05-11	17.32	17.50	17.32	17.48	49730
## 2020-05-12	17.34	17.52	17.22	17.36	51288
## 2020-05-13	17.30	17.44	17.22	17.36	54800
## 2020-05-14	17.36	17.40	17.20	17.26	97600
## 2020-05-15	17.20	17.30	17.10	17.10	94000
## 2020-05-18	17.10	17.26	17.10	17.12	100800
## 2020-05-19	17.22	17.28	17.00	17.10	151421
## 2020-05-20	17.00	17.06	16.90	16.92	285114
## 2020-05-21	16.94	16.98	16.88	16.92	178746
## 2020-05-22	16.84	16.88	16.20	16.36	385593
## 2020-05-25	15.82	15.82	15.00	15.26	249726
## 2020-05-26	15.26	15.56	15.28	15.38	51642
## 2020-05-27	15.30	15.30	15.14	15.20	68400
## 2020-05-28	15.00	15.08	14.82	14.86	206456
## 2020-05-29	14.90	14.86	14.50	14.50	136897
## 2020-06-01	14.50	14.88	14.44	14.88	292425
## 2020-06-02	15.00	15.00	14.72	14.88	271079
## 2020-06-03	14.88	15.12	14.88	15.00	78732
## 2020-06-04	15.04	15.10	14.70	14.84	93068
## 2020-06-05	14.90	15.34	14.86	15.20	109385
## 2020-06-08	15.40	15.50	15.32	15.38	80800
## 2020-06-09	15.40	15.74	15.40	15.66	124000
## 2020-06-10	15.60	15.90	15.60	15.84	106400

## 2020-06-11	15.88	15.88	15.10	15.22	187600
## 2020-06-12	14.94	15.18	14.94	15.18	52800
## 2020-06-15	15.50	15.50	15.08	15.26	247600
## 2020-06-16	15.24	15.38	15.22	15.34	40404
## 2020-06-17	15.34	15.34	15.20	15.20	48800
## 2020-06-18	15.16	15.24	15.16	15.22	23200
## 2020-06-19	15.30	15.30	15.20	15.28	50054
## 2020-06-22	15.24	15.30	15.00	15.22	102113
## 2020-06-23	15.36	15.36	15.06	15.20	80481
## 2020-06-24	15.30	15.32	15.06	15.20	70400
## 2020-06-26	15.10	15.12	15.00	15.00	94400
## 2020-06-29	14.90	15.08	14.84	15.04	362400
## 2020-06-30	15.06	15.12	15.02	15.04	28400
## 2020-07-02	15.08	15.16	15.04	15.14	66995
## 2020-07-03	15.22	15.38	15.08	15.10	111088
## 2020-07-06	15.20	15.26	15.06	15.20	295216
## 2020-07-07	15.44	15.44	15.10	15.20	102400
## 2020-07-08	15.18	15.20	15.08	15.08	88299
## 2020-07-09	15.26	15.26	14.94	15.00	507811
## 2020-07-10	15.00	15.12	14.90	15.00	127738
## 2020-07-13	15.10	15.10	14.94	15.02	195600
## 2020-07-14	14.96	15.00	14.88	14.92	28000
## 2020-07-15	15.00	15.02	14.86	14.90	52000
## 2020-07-16	14.82	14.98	14.80	14.82	73200
## 2020-07-17	14.80	14.92	14.76	14.78	64000
## 2020-07-20	14.72	14.72	14.66	14.70	60400
## 2020-07-21	14.70	14.70	14.58	14.64	141450
## 2020-07-22	14.64	14.64	14.56	14.56	105425
## 2020-07-23	14.54	14.56	14.40	14.40	259606
## 2020-07-24	14.44	14.40	14.20	14.22	218040
## 2020-07-27	14.22	14.30	14.00	14.02	121200
## 2020-07-28	14.04	14.14	14.04	14.14	61135
## 2020-07-29	14.14	14.26	14.06	14.16	45414
## 2020-07-30	14.22	14.50	14.20	14.50	52000
## 2020-07-31	14.24	14.50	14.24	14.42	26131
## 2020-08-03	14.24	14.44	14.20	14.28	50467
## 2020-08-04	14.28	14.38	14.10	14.26	64400
## 2020-08-05	14.14	14.38	14.14	14.26	50806
## 2020-08-06	14.12	14.24	14.12	14.16	34822
## 2020-08-07	14.20	14.38	14.10	14.20	52397
## 2020-08-10	14.48	14.48	14.22	14.26	33556
## 2020-08-11	14.42	14.42	14.32	14.36	45193
## 2020-08-12	14.40	14.40	14.30	14.34	65200
## 2020-08-13	14.36	14.60	14.36	14.56	53552
## 2020-08-14	14.54	14.72	14.54	14.66	72000
## 2020-08-17	14.62	14.68	14.52	14.66	70400
## 2020-08-18	14.66	14.70	14.58	14.66	24024
## 2020-08-19	14.62	14.80	14.62	14.80	34801
## 2020-08-20	14.80	14.80	14.48	14.60	57200
## 2020-08-21	14.60	14.60	14.38	14.46	189056
## 2020-08-24	14.48	14.64	14.40	14.62	181081
## 2020-08-25	14.76	15.00	14.76	15.00	194752
## 2020-08-26	15.00	15.00	14.80	14.84	47200
## 2020-08-27	14.78	14.82	14.52	14.72	84000
## 2020-08-28	14.72	14.84	14.56	14.56	66000
## 2020-08-31	14.54	14.64	14.52	14.58	55042

## 2020-09-01	14.60	14.62	14.50	14.62	47200
## 2020-09-02	14.56	14.58	14.50	14.56	14608
## 2020-09-03	14.56	14.70	14.56	14.64	33600
## 2020-09-04	14.50	14.56	14.40	14.56	26800
## 2020-09-07	14.42	14.54	14.36	14.48	70433
## 2020-09-08	14.48	14.48	14.30	14.36	31600
## 2020-09-09	14.30	14.40	14.30	14.36	22800
## 2020-09-10	14.36	14.56	14.36	14.44	14400
## 2020-09-11	14.44	14.50	14.38	14.50	30714
## 2020-09-14	14.46	14.50	14.42	14.50	17200
## 2020-09-15	14.50	14.60	14.46	14.50	66400
## 2020-09-16	14.50	14.50	14.44	14.48	16000
## 2020-09-17	14.42	14.42	14.40	14.40	21600
## 2020-09-18	14.40	14.68	14.36	14.40	103302
## 2020-09-21	14.42	14.58	14.36	14.36	32340
## 2020-09-22	14.34	14.40	14.28	14.30	56800
## 2020-09-23	14.36	14.36	14.24	14.26	39274
## 2020-09-24	14.20	14.20	14.12	14.14	108000
## 2020-09-25	14.14	14.14	14.08	14.08	23336
## 2020-09-28	14.10	14.10	14.02	14.08	49600
## 2020-09-29	14.44	14.44	14.04	14.04	20000
## 2020-09-30	14.20	14.30	14.04	14.18	28000
## 2020-10-05	14.20	14.24	14.04	14.24	14400
## 2020-10-06	14.32	14.32	14.20	14.24	30800
## 2020-10-07	14.20	14.32	14.20	14.22	40000
## 2020-10-08	14.20	14.24	14.20	14.24	18400
## 2020-10-09	14.20	14.20	14.12	14.16	31096
## 2020-10-12	14.14	14.14	14.10	14.14	54400
## 2020-10-14	14.10	14.10	14.00	14.06	164517
## 2020-10-15	14.02	14.10	14.00	14.06	21200
## 2020-10-16	14.10	14.28	14.08	14.08	43485
## 2020-10-19	14.10	14.20	14.08	14.10	32968
## 2020-10-20	14.06	14.10	14.06	14.06	201200
## 2020-10-21	14.04	14.06	14.02	14.04	91200
## 2020-10-22	14.00	14.04	14.00	14.02	53200
## 2020-10-23	14.02	14.02	13.90	14.02	89625
## 2020-10-27	13.90	14.06	13.90	14.06	52400
## 2020-10-28	14.00	14.52	13.40	14.02	334000
## 2020-10-29	14.08	14.08	13.92	13.96	33200
## 2020-10-30	13.98	14.10	13.70	13.78	30800
## 2020-11-02	13.82	13.82	13.72	13.74	42400
## 2020-11-03	13.76	13.76	13.64	13.66	74588
## 2020-11-04	13.70	13.70	13.62	13.62	92400
## 2020-11-05	13.62	13.82	13.42	13.80	48070
## 2020-11-06	13.70	13.80	13.70	13.78	18107
## 2020-11-09	13.80	14.20	13.72	14.16	171600
## 2020-11-10	14.48	14.90	14.48	14.72	142778
## 2020-11-11	14.74	14.90	14.66	14.84	94800
## 2020-11-12	14.84	14.90	14.56	14.80	84272
## 2020-11-13	14.66	14.88	14.54	14.74	139832
## 2020-11-16	14.74	14.74	14.64	14.70	36400
## 2020-11-17	14.62	14.80	14.54	14.74	62955
## 2020-11-18	14.74	15.00	14.74	15.00	145600
## 2020-11-19	15.00	15.40	15.00	15.32	116800
## 2020-11-20	15.32	15.50	15.20	15.32	152325
## 2020-11-23	15.20	15.20	15.00	15.10	55200

## 2020-11-24	15.10	15.10	14.90	14.98	85787
## 2020-11-25	15.10	15.26	15.10	15.20	105798
## 2020-11-26	14.98	15.20	14.94	15.20	14400
## 2020-11-27	15.20	15.20	15.08	15.08	19000
## 2020-11-30	15.00	15.20	14.82	15.20	67200
## 2020-12-01	15.20	15.22	15.02	15.14	94000
## 2020-12-02	15.14	15.14	15.02	15.14	48547
## 2020-12-03	15.14	15.32	15.04	15.24	29758
## 2020-12-04	15.22	15.22	15.04	15.14	50800
## 2020-12-07	15.14	15.14	14.92	15.10	54800
## 2020-12-08	15.10	15.32	15.10	15.30	149200
## 2020-12-09	15.30	15.30	15.10	15.16	29600
## 2020-12-10	15.10	15.10	15.04	15.08	34037
## 2020-12-11	15.00	15.10	14.94	15.00	78800
## 2020-12-14	15.08	15.08	14.90	14.98	26000
## 2020-12-15	15.00	15.00	14.90	14.98	15075
## 2020-12-16	15.00	15.00	14.86	14.90	101600
## 2020-12-17	14.90	14.90	14.86	14.90	66000
## 2020-12-18	14.90	15.20	14.82	15.20	121600
## 2020-12-21	14.98	15.10	14.88	15.08	16427
## 2020-12-22	14.94	15.00	14.84	15.00	9218
## 2020-12-23	14.86	14.98	14.82	14.98	9200
## 2020-12-24	14.94	14.94	14.94	14.94	0
## 2020-12-28	14.94	15.00	14.88	14.96	54006
## 2020-12-29	14.90	14.98	14.72	14.92	24400
## 2020-12-30	15.02	15.02	14.88	14.96	15200
## 2020-12-31	14.98	14.98	14.98	14.98	0
## 2021-01-04	14.98	15.12	14.74	14.96	69200
## 2021-01-05	15.00	15.00	14.86	15.00	120650
## 2021-01-06	15.00	15.00	14.90	14.96	13754
## 2021-01-07	15.00	15.00	14.84	14.90	30720
## 2021-01-08	14.96	14.98	14.84	14.98	41323
## 2021-01-11	14.98	14.98	14.82	14.98	46400
## 2021-01-12	14.98	15.00	14.82	14.98	21600
## 2021-01-13	14.98	14.98	14.88	14.96	34800
## 2021-01-14	14.90	14.96	14.70	14.90	119810
## 2021-01-15	14.90	14.90	14.66	14.80	70219
## 2021-01-18	14.72	14.80	14.64	14.78	118759
## 2021-01-19	14.70	14.80	14.70	14.80	149125
## 2021-01-20	14.78	14.78	14.64	14.76	169248
## 2021-01-21	14.76	14.80	14.72	14.74	52200
## 2021-01-22	14.78	14.82	14.70	14.72	131236
## 2021-01-25	14.70	14.70	14.56	14.60	96821
## 2021-01-26	14.60	14.58	14.50	14.56	48800
## 2021-01-27	14.50	14.66	14.40	14.60	33199
## 2021-01-28	14.48	14.54	14.48	14.50	49602
## 2021-01-29	14.54	14.54	14.42	14.50	29600
## 2021-02-01	14.50	14.50	14.40	14.50	67655
## 2021-02-02	14.50	14.46	14.40	14.46	35600
## 2021-02-03	14.40	14.46	14.40	14.44	44800
## 2021-02-04	14.48	14.48	14.38	14.46	87917
## 2021-02-05	14.50	14.50	14.32	14.46	85029
## 2021-02-08	14.44	14.42	14.32	14.34	42000
## 2021-02-09	14.34	14.72	14.34	14.44	81788
## 2021-02-10	14.54	14.58	14.38	14.46	32628
## 2021-02-11	14.52	14.52	14.52	14.52	0

## 2021-02-16	14.52	14.74	14.52	14.74	81679
## 2021-02-17	14.74	14.86	14.70	14.86	80785
## 2021-02-18	14.86	14.88	14.76	14.88	67703
## 2021-02-19	14.90	15.10	14.82	14.92	89600
## 2021-02-22	14.92	15.32	14.92	15.22	184400
## 2021-02-23	15.16	15.24	15.08	15.16	95723
## 2021-02-24	15.16	15.20	15.10	15.20	125200
## 2021-02-25	15.20	15.32	15.20	15.26	150368
## 2021-02-26	15.26	15.26	15.10	15.10	81200
## 2021-03-01	15.10	15.22	15.06	15.12	96000
## 2021-03-02	15.48	15.48	15.10	15.12	60400
## 2021-03-03	15.10	15.36	14.98	15.10	94826
## 2021-03-04	14.96	15.12	14.92	15.12	115200
## 2021-03-05	15.12	15.20	15.00	15.20	74413
## 2021-03-08	15.20	15.26	15.10	15.10	101600
## 2021-03-09	15.00	15.10	14.96	15.00	86400
## 2021-03-10	14.96	15.10	14.96	15.00	111025
## 2021-03-11	15.00	15.20	15.00	15.14	36000
## 2021-03-12	15.14	15.14	15.00	15.04	54254
## 2021-03-15	15.10	15.12	14.92	15.08	56000
## 2021-03-16	15.04	15.60	14.78	15.58	190719
## 2021-03-17	15.60	16.38	15.60	15.76	330102
## 2021-03-18	15.80	15.96	15.76	15.80	120000
## 2021-03-19	15.80	15.82	15.66	15.66	174777
## 2021-03-22	15.70	15.84	15.54	15.76	112000
## 2021-03-23	15.60	15.60	15.42	15.50	72670
## 2021-03-24	15.50	15.50	15.18	15.34	151600
## 2021-03-25	15.34	15.50	15.34	15.44	54000
## 2021-03-26	15.52	15.52	15.44	15.46	114800
## 2021-03-29	15.48	15.50	15.40	15.40	41600
## 2021-03-30	15.52	15.66	15.46	15.56	145600
## 2021-03-31	15.56	15.56	15.42	15.50	86587
## 2021-04-01	15.50	15.52	15.40	15.50	92000
## 2021-04-07	15.56	15.62	15.36	15.40	98400
## 2021-04-08	15.40	15.56	15.40	15.52	56813
## 2021-04-09	15.40	15.52	15.40	15.48	94802
## 2021-04-12	15.46	15.60	15.40	15.46	44031
## 2021-04-13	15.46	15.76	15.46	15.74	130800
## 2021-04-14	15.80	15.84	15.80	15.82	140800
## 2021-04-15	15.82	15.94	15.80	15.82	61270
## 2021-04-16	15.82	15.92	15.82	15.92	89600
## 2021-04-19	15.92	16.14	15.92	16.14	135096
## 2021-04-20	16.14	16.14	16.06	16.12	75242
## 2021-04-21	16.10	16.12	16.02	16.10	110081
## 2021-04-22	16.10	16.12	16.00	16.12	56400
## 2021-04-23	16.08	16.10	16.02	16.10	107200
## 2021-04-26	16.06	16.18	16.06	16.14	169601
## 2021-04-27	16.14	16.34	16.14	16.34	153430
## 2021-04-28	16.36	16.50	16.06	16.06	183616
## 2021-04-29	16.20	16.26	16.06	16.26	77200
## 2021-04-30	16.26	16.30	16.12	16.22	128000
## 2021-05-03	16.26	16.26	16.10	16.12	64400
## 2021-05-04	16.10	16.28	16.10	16.28	21636
## 2021-05-05	16.08	16.40	16.08	16.32	86400
## 2021-05-06	16.32	16.30	16.20	16.26	60401
## 2021-05-07	16.22	16.22	16.14	16.14	104572



## 2021-05-10	16.40	16.40	16.26	16.32	45600
## 2021-05-11	16.32	16.32	16.20	16.20	56800
## 2021-05-12	16.20	16.20	16.08	16.14	63286
## 2021-05-13	16.10	16.10	16.00	16.06	67711
## 2021-05-14	16.08	16.20	16.00	16.12	50400
## 2021-05-17	16.20	16.20	16.04	16.06	42800
## 2021-05-18	16.00	16.08	15.80	16.00	263920
## 2021-05-20	16.02	16.06	15.96	16.02	58000
## 2021-05-21	16.10	16.18	16.10	16.12	30400
## 2021-05-24	15.62	15.62	15.50	15.56	50876
## 2021-05-25	15.60	15.60	15.30	15.48	41200
## 2021-05-26	15.50	15.76	15.48	15.76	22800
## 2021-05-27	15.60	15.66	15.60	15.60	8400
## 2021-05-28	15.60	15.70	15.58	15.70	88800
## 2021-05-31	15.52	15.52	15.52	15.52	0
## 2021-06-01	15.50	15.50	15.44	15.44	47200
## 2021-06-02	15.50	15.68	15.44	15.44	86800
## 2021-06-03	15.50	15.50	15.40	15.40	85200
## 2021-06-04	15.38	15.54	15.38	15.50	30800
## 2021-06-07	15.54	15.54	15.42	15.42	36831
## 2021-06-08	15.42	15.48	15.40	15.46	42000
## 2021-06-09	15.50	15.50	15.32	15.42	37456
## 2021-06-10	15.42	15.46	15.40	15.46	123200
## 2021-06-11	15.58	15.58	15.40	15.42	168800
## 2021-06-15	15.42	15.42	15.12	15.32	96950
## 2021-06-16	15.36	15.32	15.14	15.24	34116
## 2021-06-17	15.12	15.24	15.12	15.24	59729
## 2021-06-18	15.28	15.28	15.12	15.26	12000
## 2021-06-21	15.14	15.18	15.12	15.14	65200
## 2021-06-22	15.14	15.20	15.14	15.14	61760
## 2021-06-23	15.14	15.18	15.10	15.18	11600
## 2021-06-24	15.20	15.26	15.14	15.14	58747
## 2021-06-25	15.10	15.18	15.06	15.18	44100
## 2021-06-28	15.18	15.24	15.12	15.12	47689
## 2021-06-29	15.12	15.20	15.10	15.16	28463
## 2021-06-30	15.16	15.22	15.10	15.18	83250
## 2021-07-02	15.18	15.20	15.00	15.16	94400
## 2021-07-05	15.02	15.26	15.18	15.22	68001
## 2021-07-06	15.20	15.22	15.18	15.22	26400
## 2021-07-07	15.20	15.46	15.20	15.40	83200
## 2021-07-08	15.40	15.40	15.10	15.20	106352
## 2021-07-09	15.10	15.20	14.90	15.00	145143
## 2021-07-12	15.00	15.26	15.00	15.02	60400
## 2021-07-13	15.08	15.14	15.06	15.12	21152
## 2021-07-14	15.00	15.12	15.00	15.10	20401
## 2021-07-15	15.10	15.20	15.10	15.20	60428
## 2021-07-16	15.00	15.20	15.00	15.18	12508
## 2021-07-19	15.18	15.18	14.98	15.00	47600
## 2021-07-20	15.00	15.00	14.88	14.92	90400
## 2021-07-21	14.92	14.92	14.68	14.88	78622
## 2021-07-22	14.88	14.94	14.88	14.88	44432
## 2021-07-23	14.90	15.00	14.84	14.90	15200
## 2021-07-26	14.94	15.08	14.78	14.80	254000
## 2021-07-27	15.00	15.00	14.50	14.68	72740
## 2021-07-28	14.68	14.80	14.50	14.62	63372
## 2021-07-29	14.62	14.68	14.60	14.60	32810

## 2021-07-30	14.60	14.60	14.48	14.50	50000
## 2021-08-02	14.46	14.58	14.36	14.50	40630
## 2021-08-03	14.42	14.50	14.22	14.50	89188
## 2021-08-04	14.32	14.60	14.32	14.60	57200
## 2021-08-05	14.42	14.76	14.42	14.54	242800
## 2021-08-06	14.52	14.70	14.52	14.70	22500
## 2021-08-09	14.70	14.70	14.54	14.54	32312
## 2021-08-10	14.54	14.58	14.44	14.58	20408
## 2021-08-11	14.58	14.60	14.44	14.52	18800
## 2021-08-12	14.50	14.62	14.50	14.60	15132
## 2021-08-13	14.64	14.64	14.46	14.50	14400
## 2021-08-16	14.50	14.66	14.50	14.54	20000
## 2021-08-17	14.72	14.72	14.50	14.56	21250
## 2021-08-18	14.56	14.62	14.56	14.62	20800
## 2021-08-19	14.56	14.56	14.48	14.52	8837
## 2021-08-20	14.46	14.46	14.16	14.20	141702
## 2021-08-23	14.24	14.54	14.20	14.36	55738
## 2021-08-24	14.36	14.32	14.28	14.28	7791
## 2021-08-25	14.24	14.28	14.14	14.24	34800
## 2021-08-26	14.26	14.30	14.24	14.30	28800
## 2021-08-27	14.26	14.30	14.26	14.30	11600
## 2021-08-30	14.30	14.42	14.20	14.42	52000
## 2021-08-31	14.40	14.50	14.22	14.36	100200
## 2021-09-01	14.36	14.48	14.36	14.46	2561
## 2021-09-02	14.50	14.50	14.20	14.44	13630
## 2021-09-03	14.50	14.50	14.28	14.36	16800
## 2021-09-06	14.30	14.30	14.22	14.30	14400
## 2021-09-07	14.30	14.32	14.16	14.22	54187
## 2021-09-08	14.22	14.40	14.22	14.28	31200
## 2021-09-09	14.28	14.28	14.28	14.28	0
## 2021-09-10	14.26	14.28	14.20	14.22	21600
## 2021-09-13	14.22	14.22	14.18	14.18	34450
## 2021-09-14	14.18	14.18	14.06	14.06	141395
## 2021-09-15	14.04	14.04	13.98	14.00	129600
## 2021-09-16	14.00	14.00	13.80	13.92	68800
## 2021-09-17	14.16	14.16	13.84	13.92	48000
## 2021-09-20	13.82	13.82	13.26	13.34	138997
## 2021-09-21	13.80	14.00	13.36	13.46	49738
## 2021-09-23	13.50	13.50	13.30	13.38	30800
## 2021-09-24	13.40	13.40	13.30	13.30	71620
## 2021-09-27	13.30	13.30	13.10	13.22	34409
## 2021-09-28	13.50	13.50	13.20	13.36	25600
## 2021-09-29	13.26	13.34	13.24	13.30	26400
## 2021-09-30	13.26	13.60	13.26	13.60	31707
## 2021-10-04	13.52	13.54	13.30	13.40	24400
## 2021-10-05	13.70	13.70	13.30	13.34	15265
## 2021-10-06	13.32	13.40	13.28	13.36	37501
## 2021-10-07	13.36	13.58	13.36	13.50	18420
## 2021-10-08	13.58	13.58	13.44	13.44	23838
## 2021-10-11	13.40	13.60	13.34	13.44	55668
## 2021-10-12	13.38	13.38	13.20	13.30	25200
## 2021-10-15	13.20	13.40	13.04	13.22	93633
## 2021-10-18	13.30	13.30	13.16	13.18	36800
## 2021-10-19	13.20	13.26	13.20	13.20	46000
## 2021-10-20	13.18	13.22	13.18	13.20	39328
## 2021-10-21	13.20	13.30	13.20	13.26	27600

## 2021-10-22	13.20	13.26	13.20	13.22	12000
## 2021-10-25	13.44	13.44	13.26	13.26	55357
## 2021-10-26	13.38	13.38	13.26	13.28	42983
## 2021-10-27	13.30	13.38	13.18	13.28	16800
## 2021-10-28	13.26	13.26	13.12	13.12	73600
## 2021-10-29	13.12	13.24	13.12	13.18	52390
## 2021-11-01	13.18	13.18	13.16	13.18	6400
## 2021-11-02	13.18	13.18	13.14	13.14	101960
## 2021-11-03	13.18	13.20	13.14	13.20	56800
## 2021-11-04	13.14	13.22	13.14	13.16	9600
## 2021-11-05	13.12	13.16	13.04	13.08	106111
## 2021-11-08	13.18	13.28	13.04	13.12	46825
## 2021-11-09	13.14	13.20	13.14	13.14	13600
## 2021-11-10	13.18	13.18	13.08	13.10	14000
## 2021-11-11	13.08	13.10	13.04	13.10	32000
## 2021-11-12	13.12	13.12	13.02	13.04	37200
## 2021-11-15	13.04	13.06	13.04	13.06	97634
## 2021-11-16	13.10	13.14	13.00	13.08	163261
## 2021-11-17	13.10	13.16	13.04	13.04	49600
## 2021-11-18	13.06	13.38	13.06	13.08	14431
## 2021-11-19	13.08	13.18	13.02	13.08	74572
## 2021-11-22	13.30	13.30	13.10	13.12	54800
## 2021-11-23	13.10	13.30	13.10	13.30	21937
## 2021-11-24	13.10	13.12	13.04	13.04	57600
## 2021-11-25	13.04	13.10	13.04	13.10	16400
## 2021-11-26	13.10	13.10	13.02	13.04	62000
## 2021-11-29	13.00	13.00	12.98	12.98	111600
## 2021-11-30	12.98	13.14	12.92	13.08	76400
## 2021-12-01	12.92	13.00	12.90	12.94	31600
## 2021-12-02	12.94	12.94	12.86	12.90	32800
## 2021-12-03	12.98	13.00	12.90	13.00	21200
## 2021-12-06	13.06	13.06	12.98	12.98	43776
## 2021-12-07	12.98	13.04	12.90	12.94	61713
## 2021-12-08	12.96	12.98	12.94	12.94	40000
## 2021-12-09	12.94	12.96	12.80	12.96	97082
## 2021-12-10	12.94	12.94	12.82	12.90	57558
## 2021-12-13	12.84	12.88	12.68	12.72	182800
## 2021-12-14	12.80	12.80	12.50	12.54	127413
## 2021-12-15	12.56	12.74	12.56	12.60	45912
## 2021-12-16	12.60	12.60	12.48	12.52	91560
## 2021-12-17	12.52	12.60	12.34	12.34	166920
## 2021-12-20	12.34	12.40	12.34	12.34	81600
## 2021-12-21	12.40	12.54	12.28	12.54	106512
## 2021-12-22	12.40	12.50	12.32	12.44	28400
## 2021-12-23	12.40	12.40	12.30	12.40	34000
## 2021-12-24	12.40	12.40	12.32	12.40	9600
## 2021-12-28	12.32	12.44	12.20	12.36	71601
## 2021-12-29	12.22	12.40	12.22	12.38	49600
## 2021-12-30	12.44	12.80	12.40	12.60	91885
## 2021-12-31	12.54	12.80	12.54	12.80	17600
## 2022-01-03	12.44	12.76	12.44	12.76	48521
## 2022-01-04	12.52	12.76	12.52	12.76	20400
## 2022-01-05	12.98	12.98	12.60	12.90	39200
## 2022-01-06	12.64	12.94	12.64	12.78	24800
## 2022-01-07	12.78	12.78	12.70	12.78	15722
## 2022-01-10	12.78	12.90	12.72	12.90	91600

## 2022-01-11	12.74	12.96	12.74	12.90	30000
## 2022-01-12	12.78	12.90	12.78	12.88	19000
## 2022-01-13	12.64	12.82	12.64	12.82	7600
## 2022-01-14	12.72	12.88	12.60	12.88	13428
## 2022-01-17	12.88	12.88	12.80	12.88	7600
## 2022-01-18	12.84	12.98	12.82	12.90	29600
## 2022-01-19	12.80	12.92	12.80	12.90	45600
## 2022-01-20	12.90	12.90	12.70	12.72	89200
## 2022-01-21	12.72	12.82	12.72	12.82	14981
## 2022-01-24	12.70	12.80	12.70	12.78	23200
## 2022-01-25	12.78	12.80	12.68	12.78	26000
## 2022-01-26	12.76	12.80	12.70	12.78	9600
## 2022-01-27	12.78	12.92	12.78	12.92	75600
## 2022-01-28	12.92	13.06	12.88	13.02	28847
## 2022-01-31	13.00	13.00	13.00	13.00	0
## 2022-02-04	13.00	13.20	13.00	13.20	60431
## 2022-02-07	13.20	13.20	13.02	13.04	40800
## 2022-02-08	13.04	13.10	12.98	13.08	47200
## 2022-02-09	13.10	13.14	13.00	13.10	26800
## 2022-02-10	13.00	13.10	13.00	13.10	96913
## 2022-02-11	13.00	13.10	12.88	13.08	40400
## 2022-02-14	13.06	13.06	12.88	13.02	18294
## 2022-02-15	13.04	13.04	12.88	13.00	31200
## 2022-02-16	12.90	13.08	12.92	12.98	47600
## 2022-02-17	12.92	13.00	12.84	13.00	17200
## 2022-02-18	13.06	13.06	12.86	12.90	14861
## 2022-02-21	13.02	13.02	12.68	12.72	73200
## 2022-02-22	12.84	12.84	12.60	12.70	27600
## 2022-02-23	12.70	12.80	12.62	12.78	36000
## 2022-02-24	12.78	12.78	12.58	12.62	47434
## 2022-02-25	12.70	12.70	12.58	12.70	22400
## 2022-02-28	12.68	12.68	12.50	12.54	26167
## 2022-03-01	12.52	12.56	12.40	12.50	25600
## 2022-03-02	12.48	12.60	12.42	12.60	40800
## 2022-03-03	12.52	12.74	12.52	12.68	29844
## 2022-03-04	12.60	12.60	12.50	12.60	24810
## 2022-03-07	12.46	12.50	12.26	12.38	52553
## 2022-03-08	12.46	12.46	12.28	12.36	17200
## 2022-03-09	12.20	12.40	12.18	12.30	112400
## 2022-03-10	12.60	12.68	12.34	12.54	10400
## 2022-03-11	12.46	12.82	12.22	12.82	43212
## 2022-03-14	12.50	12.50	12.22	12.50	37600
## 2022-03-15	12.20	12.42	12.14	12.34	97200
## 2022-03-16	12.38	12.38	12.14	12.28	61283
## 2022-03-17	12.38	12.44	12.28	12.40	54006
## 2022-03-18	12.50	12.84	12.50	12.70	158400
## 2022-03-21	12.70	13.00	12.70	12.98	136880
## 2022-03-22	13.00	13.02	12.82	13.02	61600
## 2022-03-23	13.02	13.18	12.80	13.12	172297
## 2022-03-24	13.20	13.20	13.02	13.14	36000
## 2022-03-25	13.08	13.08	12.82	12.90	62400
## 2022-03-28	13.00	13.00	12.88	12.90	17600
## 2022-03-29	13.10	13.10	12.80	12.80	34574
## 2022-03-30	12.96	12.96	12.82	12.84	74850
## 2022-03-31	12.80	12.86	12.70	12.76	75200
## 2022-04-01	12.98	12.98	12.80	12.92	36000

## 2022-04-04	12.90	13.00	12.80	12.92	96881
## 2022-04-06	12.92	12.96	12.86	12.96	84800
## 2022-04-07	13.06	13.06	12.94	12.94	42683
## 2022-04-08	13.00	13.00	12.90	12.94	11773
## 2022-04-11	12.88	12.94	12.76	12.94	53600
## 2022-04-12	12.78	13.20	12.78	13.18	149600
## 2022-04-13	13.18	13.18	12.94	12.94	17200
## 2022-04-14	12.98	13.12	12.98	13.12	62400
## 2022-04-19	13.00	13.20	13.00	13.16	81672
## 2022-04-20	13.12	13.38	13.12	13.32	60800
## 2022-04-21	13.32	13.32	13.00	13.16	43200
## 2022-04-22	13.20	13.20	13.10	13.12	37600
## 2022-04-25	13.10	13.12	12.92	12.94	14800
## 2022-04-26	12.94	13.00	12.84	12.96	21903
## 2022-04-27	12.82	12.90	12.80	12.90	41600
## 2022-04-28	12.96	13.00	12.94	13.00	14100
## 2022-04-29	12.88	13.00	12.88	13.00	30400
## 2022-05-03	12.80	13.10	12.80	13.00	16800
## 2022-05-04	12.84	12.98	12.84	12.90	14425
## 2022-05-05	12.86	12.86	12.62	12.84	58400
## 2022-05-06	12.68	12.84	12.62	12.84	82630
## 2022-05-10	12.66	12.82	12.62	12.68	17294
## 2022-05-11	12.68	12.68	12.68	12.68	5600
## 2022-05-12	12.70	12.88	12.70	12.76	18400
## 2022-05-13	12.62	12.72	12.60	12.62	62800
## 2022-05-16	12.70	12.72	12.60	12.70	38928
## 2022-05-17	12.60	12.78	12.58	12.72	32000
## 2022-05-18	12.80	12.86	12.76	12.76	50000
## 2022-05-19	12.76	12.88	12.60	12.62	41714
## 2022-05-20	12.70	12.74	12.64	12.72	62451
## 2022-05-23	12.52	12.52	12.10	12.20	84000
## 2022-05-24	12.22	12.28	12.12	12.24	49840
## 2022-05-25	12.30	12.38	12.18	12.20	24000
## 2022-05-26	12.18	12.34	12.00	12.26	88800
## 2022-05-27	12.26	12.28	12.12	12.26	26000
## 2022-05-30	12.36	12.36	12.20	12.28	23200
## 2022-05-31	12.32	12.32	12.20	12.20	52000
## 2022-06-01	12.30	12.30	12.22	12.26	22616
## 2022-06-02	12.12	12.30	12.12	12.20	18969
## 2022-06-06	12.18	12.28	12.18	12.22	23200
## 2022-06-07	12.22	12.30	12.22	12.22	5600
## 2022-06-08	12.22	12.30	12.20	12.26	50574
## 2022-06-09	12.24	12.26	12.20	12.22	38081
## 2022-06-10	12.18	12.26	11.98	12.16	568529
## 2022-06-13	12.10	12.10	12.02	12.10	41600
## 2022-06-14	12.00	12.02	12.00	12.02	35600
## 2022-06-15	12.02	12.02	11.98	12.00	40400
## 2022-06-16	12.00	12.00	11.88	11.92	134400
## 2022-06-17	12.00	12.00	11.84	11.90	47330
## 2022-06-20	11.90	11.96	11.84	11.92	25600
## 2022-06-21	11.84	11.94	11.84	11.90	14800
## 2022-06-22	11.94	11.94	11.84	11.92	17449
## 2022-06-23	11.92	11.92	11.84	11.90	21200
## 2022-06-24	11.88	11.88	11.80	11.84	102800
## 2022-06-27	11.84	11.90	11.84	11.90	36325
## 2022-06-28	11.96	11.96	11.86	11.90	25600

## 2022-06-29	11.92	11.92	11.78	11.86	86400
## 2022-06-30	11.86	11.86	11.76	11.80	56755
## 2022-07-04	11.80	11.80	11.74	11.74	63233
## 2022-07-05	11.74	11.74	11.72	11.74	12400
## 2022-07-06	11.72	11.72	11.68	11.70	44400
## 2022-07-07	11.68	11.68	11.44	11.52	147200
## 2022-07-08	11.50	11.50	11.48	11.50	38458
## 2022-07-11	11.48	11.60	11.46	11.48	78001
## 2022-07-12	11.46	11.50	11.46	11.50	8800
## 2022-07-13	11.42	11.50	11.40	11.50	38000
## 2022-07-14	11.40	11.40	11.40	11.40	3244
## 2022-07-15	11.40	11.40	11.36	11.36	8800
## 2022-07-18	11.38	11.38	11.28	11.28	56000
## 2022-07-19	11.28	11.28	10.88	11.22	78409
## 2022-07-20	11.50	11.50	11.20	11.28	49496
## 2022-07-21	11.28	11.28	11.22	11.28	18000
## 2022-07-22	11.24	11.48	11.20	11.20	20735
## 2022-07-25	11.10	11.20	10.90	11.12	44400
## 2022-07-26	11.12	11.20	10.90	10.92	29200
## 2022-07-27	10.92	10.94	10.88	10.94	86579
## 2022-07-28	10.94	10.94	10.70	10.86	55183
## 2022-07-29	10.76	10.80	10.60	10.66	181200
## 2022-08-01	10.62	10.64	10.46	10.46	153388
## 2022-08-02	10.44	10.44	10.32	10.40	126400
## 2022-08-03	10.42	10.60	10.42	10.48	34800
## 2022-08-04	10.60	10.60	10.44	10.46	53360
## 2022-08-05	10.74	10.96	10.54	10.76	55380
## 2022-08-08	10.76	10.80	10.64	10.80	8000
## 2022-08-09	10.86	11.08	10.82	10.96	92153
## 2022-08-10	10.94	10.98	10.80	10.80	36800
## 2022-08-11	10.86	10.88	10.74	10.88	13132
## 2022-08-12	10.88	10.88	10.76	10.86	32000
## 2022-08-15	10.86	10.94	10.80	10.92	15600
## 2022-08-16	10.96	10.96	10.92	10.96	26400
## 2022-08-17	10.90	11.00	10.90	10.96	36400
## 2022-08-18	10.98	11.02	10.96	11.00	75277
## 2022-08-19	10.80	10.82	10.72	10.72	86745
## 2022-08-22	10.72	10.90	10.62	10.84	53284
## 2022-08-23	10.72	10.90	10.72	10.72	38800
## 2022-08-24	10.74	10.76	10.62	10.62	50864
## 2022-08-25	10.62	10.62	10.62	10.62	0
## 2022-08-26	10.62	10.66	10.62	10.66	22400
## 2022-08-29	10.62	10.80	10.62	10.78	2000
## 2022-08-30	10.64	10.80	10.64	10.78	2000
## 2022-08-31	10.54	10.84	10.54	10.84	14400
## 2022-09-01	10.56	10.62	10.50	10.62	28000
## 2022-09-02	10.54	10.60	10.54	10.60	5600
## 2022-09-05	10.52	10.60	10.44	10.60	22000
## 2022-09-06	10.56	10.60	10.44	10.58	2400
## 2022-09-07	10.58	10.58	10.44	10.52	17347
## 2022-09-08	10.60	10.60	10.48	10.48	8000
## 2022-09-09	10.48	10.48	10.40	10.44	28800
## 2022-09-13	10.44	10.54	10.44	10.54	5200
## 2022-09-14	10.36	10.62	10.30	10.46	57594
## 2022-09-15	10.44	10.44	10.24	10.42	40800
## 2022-09-16	10.28	10.36	10.28	10.36	18752

## 2022-09-19	10.34	10.34	10.18	10.24	46000
## 2022-09-20	10.24	10.24	10.10	10.20	90009
## 2022-09-21	10.16	10.30	10.04	10.30	13200
## 2022-09-22	10.28	10.28	10.04	10.10	15584
## 2022-09-23	10.04	10.10	10.02	10.08	14800
## 2022-09-26	10.08	10.10	10.00	10.06	33600
## 2022-09-27	10.00	10.06	9.91	10.00	45600
## 2022-09-28	9.90	9.99	9.77	9.78	58222
## 2022-09-29	9.92	9.95	9.55	9.78	78306
## 2022-09-30	9.75	9.74	9.51	9.60	108581
## 2022-10-03	9.56	9.56	9.42	9.51	32445
## 2022-10-05	9.62	9.71	9.55	9.71	43321
## 2022-10-06	9.70	9.70	9.50	9.70	9200
## 2022-10-07	9.47	9.60	9.39	9.60	27200
## 2022-10-10	9.64	9.64	9.38	9.48	49763
## 2022-10-11	9.48	9.48	9.28	9.40	9200
## 2022-10-12	9.27	9.36	9.23	9.30	34800
## 2022-10-13	9.23	9.23	9.11	9.18	19600
## 2022-10-14	9.21	9.26	9.12	9.20	43200
## 2022-10-17	9.20	9.20	9.00	9.10	76000
## 2022-10-18	9.01	9.10	9.00	9.10	44600
## 2022-10-19	9.10	9.10	9.03	9.03	9208
## 2022-10-20	8.95	9.03	8.89	9.03	139200
## 2022-10-21	9.02	9.02	8.90	9.00	25600
## 2022-10-24	8.85	8.85	8.55	8.71	79478
## 2022-10-25	8.71	8.71	8.56	8.69	95785
## 2022-10-26	8.55	8.73	8.55	8.73	42051
## 2022-10-27	8.82	8.82	8.60	8.80	19600
## 2022-10-28	8.65	8.73	8.50	8.71	35041
## 2022-10-31	8.50	8.55	8.22	8.29	127800
## 2022-11-01	8.40	8.40	8.30	8.38	23200
## 2022-11-02	8.39	8.40	8.39	8.40	5600
## 2022-11-03	8.31	8.31	8.20	8.30	58800
## 2022-11-04	8.30	8.40	8.20	8.40	43623
## 2022-11-07	8.48	8.51	8.43	8.43	68928
## 2022-11-08	8.55	8.79	8.51	8.53	28400
## 2022-11-09	8.53	8.53	8.46	8.46	22800
## 2022-11-10	8.58	8.58	8.32	8.38	16000
## 2022-11-11	8.45	8.65	8.41	8.46	111600
## 2022-11-14	8.57	8.68	8.56	8.59	42000
## 2022-11-15	8.51	8.70	8.50	8.67	53118
## 2022-11-16	8.67	8.75	8.67	8.75	46000
## 2022-11-17	8.65	8.73	8.60	8.73	24800
## 2022-11-18	8.80	8.88	8.75	8.79	42000
## 2022-11-21	8.80	8.80	8.50	8.50	34677
## 2022-11-22	8.51	8.70	8.51	8.56	5200
## 2022-11-23	8.57	8.80	8.50	8.73	20289
## 2022-11-24	8.82	8.90	8.62	8.70	32614
## 2022-11-25	9.72	9.72	8.73	8.98	36800
## 2022-11-28	8.94	8.94	8.82	8.83	10400
## 2022-11-29	8.70	8.90	8.70	8.90	6800
## 2022-11-30	9.00	9.02	9.00	9.03	22400
## 2022-12-01	9.13	9.28	9.04	9.22	28000
## 2022-12-02	9.16	9.19	9.16	9.16	14800
## 2022-12-05	9.38	9.40	9.28	9.28	28858
## 2022-12-06	9.30	9.39	9.30	9.31	14000

## 2022-12-07	9.40	9.46	9.33	9.35	37408
## 2022-12-08	9.37	9.52	9.37	9.52	35600
## 2022-12-09	9.52	9.52	9.43	9.52	49374
## 2022-12-12	9.52	9.52	9.49	9.50	17601
## 2022-12-13	9.60	10.00	9.59	9.98	214800
## 2022-12-14	10.12	11.00	10.04	10.66	411200
## 2022-12-15	10.60	10.70	10.34	10.44	53487
## 2022-12-16	10.42	10.46	10.22	10.28	44800
## 2022-12-19	10.60	10.60	10.26	10.30	48400
## 2022-12-20	10.22	10.58	10.22	10.30	32000
## 2022-12-21	10.52	10.52	10.32	10.46	3034
## 2022-12-22	10.38	10.44	10.30	10.44	62400
## 2022-12-23	10.52	10.78	10.34	10.68	46460
## 2022-12-28	10.98	11.00	10.70	10.90	110403
## 2022-12-29	10.94	10.94	10.46	10.86	53200
## 2022-12-30	11.00	11.44	10.54	11.38	78000
## 2023-01-03	11.04	11.32	10.66	11.16	82800
## 2023-01-04	11.00	11.24	11.00	11.10	44176
## 2023-01-05	11.10	11.28	11.10	11.16	28818
## 2023-01-06	11.16	11.26	11.00	11.16	30625
## 2023-01-09	11.20	11.28	11.18	11.20	81270
## 2023-01-10	11.20	11.20	10.82	11.06	57200
## 2023-01-11	11.00	11.22	11.00	11.02	34800
## 2023-01-12	11.10	11.10	10.96	11.08	21694
## 2023-01-13	11.16	11.28	11.08	11.10	65200
## 2023-01-16	11.10	11.18	11.04	11.08	36488
## 2023-01-17	11.20	11.20	11.02	11.06	6400
## 2023-01-18	11.20	11.20	10.90	10.94	57600
## 2023-01-19	10.94	11.08	10.90	11.08	26800
## 2023-01-20	11.08	11.08	11.00	11.04	23600
## 2023-01-26	11.04	11.20	11.04	11.20	53022
## 2023-01-27	11.10	11.30	11.10	11.26	74908
## 2023-01-30	11.38	11.38	11.18	11.20	57112
## 2023-01-31	11.20	11.28	11.18	11.20	16000
## 2023-02-01	11.20	11.34	11.20	11.30	28400
## 2023-02-02	11.34	11.36	11.22	11.26	6800
## 2023-02-03	11.22	11.36	11.12	11.36	24400
## 2023-02-06	11.28	11.36	11.18	11.36	40536
## 2023-02-07	11.36	11.40	11.34	11.36	11668
## 2023-02-08	11.36	11.40	11.22	11.36	17020
## 2023-02-09	11.42	11.50	11.28	11.40	33600
## 2023-02-10	11.52	11.52	11.22	11.50	25600
## 2023-02-13	11.24	11.40	11.22	11.30	17593
## 2023-02-14	11.46	11.46	11.32	11.32	8400
## 2023-02-15	11.32	11.32	11.30	11.30	12400
## 2023-02-16	11.30	11.30	11.16	11.26	33485
## 2023-02-17	11.24	11.26	11.18	11.24	32000
## 2023-02-20	11.24	11.24	11.18	11.20	62018
## 2023-02-21	11.24	11.24	11.16	11.22	5419
## 2023-02-22	11.24	11.24	11.08	11.10	12800
## 2023-02-23	11.08	11.18	11.06	11.08	24413
## 2023-02-24	11.08	11.08	11.08	11.08	0
## 2023-02-27	11.10	11.10	10.64	10.88	33200
## 2023-02-28	10.88	11.06	10.88	10.94	3600
## 2023-03-01	11.18	11.18	11.08	11.18	23200
## 2023-03-02	11.20	10.94	10.80	10.92	12400



## 2023-03-03	10.92	10.98	10.90	11.00	43200
## 2023-03-06	11.22	11.22	10.92	10.98	12800
## 2023-03-07	10.80	10.98	10.80	10.90	42760
## 2023-03-08	10.84	10.86	10.82	10.86	16400
## 2023-03-09	10.84	10.84	10.80	10.82	11200
## 2023-03-10	11.08	11.08	10.78	10.76	19200
## 2023-03-13	10.76	10.76	10.70	10.72	9334
## 2023-03-14	10.72	10.80	10.60	10.60	11200
## 2023-03-15	10.66	10.66	10.42	10.44	57918
## 2023-03-16	10.50	10.50	10.50	10.50	28400
## 2023-03-17	10.50	10.78	10.36	10.76	14400
## 2023-03-20	10.48	10.66	10.48	10.48	14400
## 2023-03-21	10.40	10.48	10.36	10.48	3432
## 2023-03-22	10.30	10.58	10.30	10.50	52400
## 2023-03-23	10.40	10.52	10.22	10.30	12400
## 2023-03-24	10.72	10.72	10.44	10.58	108924
## 2023-03-27	10.58	10.58	10.34	10.50	133600
## 2023-03-28	10.52	10.68	10.44	10.58	18400
## 2023-03-29	10.62	10.80	10.58	10.72	15600
## 2023-03-30	10.62	10.66	10.30	10.60	68005
## 2023-03-31	10.68	10.74	10.30	10.60	108328
## 2023-04-03	10.98	10.98	10.56	10.60	9200
## 2023-04-04	10.48	10.60	10.48	10.60	4630
## 2023-04-06	10.60	10.62	10.38	10.60	46740
## 2023-04-11	10.82	10.82	10.64	10.66	18800
## 2023-04-12	10.68	10.68	10.56	10.62	55953
## 2023-04-13	10.60	10.60	10.46	10.56	36400
## 2023-04-14	10.50	10.62	10.50	10.62	19200
## 2023-04-17	10.58	10.62	10.32	10.56	72432
## 2023-04-18	10.56	10.58	10.44	10.58	30462
## 2023-04-19	10.56	10.58	10.54	10.58	9600
## 2023-04-20	10.58	10.58	10.42	10.58	5152
## 2023-04-21	10.44	10.50	10.32	10.50	32400
## 2023-04-24	10.50	10.50	10.30	10.38	63600
## 2023-04-25	10.38	10.38	10.28	10.32	16800
## 2023-04-26	10.26	10.32	10.24	10.30	41888
## 2023-04-27	10.26	10.30	10.18	10.28	103200
## 2023-04-28	10.34	10.38	10.18	10.38	40800
## 2023-05-02	10.40	10.52	10.20	10.48	45600
## 2023-05-03	10.40	10.40	10.30	10.40	2400
## 2023-05-04	10.40	10.50	10.30	10.50	7200
## 2023-05-05	10.50	10.52	10.40	10.50	35152
## 2023-05-08	10.50	10.60	10.50	10.54	28047
## 2023-05-09	10.54	10.74	10.52	10.54	31258
## 2023-05-10	10.54	10.54	10.50	10.54	1200
## 2023-05-11	10.76	10.76	10.60	10.64	11200
## 2023-05-12	10.72	10.90	10.70	10.70	46800
## 2023-05-15	10.62	10.70	10.48	10.70	7852
## 2023-05-16	10.52	10.58	10.52	10.58	125255
## 2023-05-17	10.60	10.60	10.54	10.60	11200
## 2023-05-18	10.50	10.66	10.36	10.64	59655
## 2023-05-19	10.66	10.66	10.54	10.54	56000
## 2023-05-22	10.36	10.40	9.80	9.98	42424
## 2023-05-23	9.90	9.97	9.85	9.95	42800
## 2023-05-24	9.95	9.95	9.90	9.90	11200
## 2023-05-25	9.90	9.90	9.83	9.85	21174

## 2023-05-29	9.86	9.86	9.86	9.86	12000
## 2023-05-30	9.90	10.52	9.86	10.50	283231
## 2023-05-31	10.50	10.50	10.08	10.08	84000
## 2023-06-01	10.02	10.10	9.89	10.06	30000
## 2023-06-02	10.50	10.50	9.96	10.20	8400
## 2023-06-05	10.20	10.22	9.90	10.18	37800
## 2023-06-06	10.00	10.00	9.90	10.00	5600
## 2023-06-07	10.00	10.18	9.90	10.04	31626
## 2023-06-08	10.00	10.00	9.95	10.00	43600
## 2023-06-09	10.30	10.30	9.95	10.00	30800
## 2023-06-12	10.00	10.00	9.88	10.00	21335
## 2023-06-13	9.90	10.00	9.89	10.00	16588
## 2023-06-14	9.90	9.95	9.88	9.90	101200
## 2023-06-15	9.87	9.98	9.87	9.96	17945
## 2023-06-16	9.95	9.95	9.86	9.88	45855
## 2023-06-19	9.90	9.91	9.84	9.89	65660
## 2023-06-20	9.92	9.95	9.85	9.95	37200
## 2023-06-21	9.95	9.95	9.82	9.89	7348
## 2023-06-23	9.95	9.95	9.82	9.90	14000
## 2023-06-26	9.89	9.94	9.80	9.92	21200
## 2023-06-27	9.90	9.90	9.74	9.76	20800
## 2023-06-28	9.77	9.81	9.77	9.85	16816
## 2023-06-29	9.68	9.85	9.68	9.85	16000
## 2023-06-30	9.75	10.02	9.75	9.90	34384
## 2023-07-03	9.90	10.10	9.76	10.00	30193
## 2023-07-04	10.00	10.06	9.90	10.00	82151
## 2023-07-05	10.00	10.00	9.94	9.99	29600
## 2023-07-06	9.95	10.00	9.74	9.94	114400
## 2023-07-07	9.90	9.98	9.75	9.83	35299
## 2023-07-10	9.80	9.93	9.80	9.93	3600
## 2023-07-11	9.80	10.00	9.80	9.92	44119
## 2023-07-12	9.93	9.93	9.88	9.91	36937
## 2023-07-13	10.00	10.00	9.94	10.00	42900
## 2023-07-14	9.94	10.50	9.91	10.40	206270
## 2023-07-18	10.40	10.64	10.34	10.36	147200
## 2023-07-19	10.28	10.36	10.28	10.36	15639
## 2023-07-20	10.40	10.40	10.30	10.38	33204
## 2023-07-21	10.40	10.40	10.30	10.36	51304
## 2023-07-24	10.30	10.40	10.28	10.34	23600
## 2023-07-25	10.20	10.24	10.02	10.24	132800
## 2023-07-26	10.24	10.24	10.06	10.10	27600
## 2023-07-27	10.12	10.14	9.98	10.10	156577
## 2023-07-28	10.10	10.12	10.00	10.08	25200
## 2023-07-31	10.10	10.12	9.99	10.04	101404
## 2023-08-01	10.02	10.10	9.99	10.10	67200
## 2023-08-02	10.10	10.10	9.98	10.08	40400
## 2023-08-03	10.08	10.34	10.00	10.30	16040
## 2023-08-04	10.14	10.30	10.12	10.12	18000
## 2023-08-07	10.12	10.20	10.12	10.20	39647
## 2023-08-08	10.22	10.26	10.18	10.20	31721
## 2023-08-09	10.08	10.10	10.08	10.10	12115
## 2023-08-10	10.16	10.20	10.08	10.16	11600
## 2023-08-11	10.16	10.32	10.12	10.30	44400
## 2023-08-14	10.20	10.60	10.00	10.30	167886
## 2023-08-15	10.30	10.40	10.30	10.36	52400
## 2023-08-16	10.30	10.36	10.18	10.36	36000

## 2023-08-17	10.36	10.40	10.10	10.40	51332
## 2023-08-18	10.40	10.48	10.40	10.42	131600
## 2023-08-21	10.50	10.58	10.20	10.26	56282
## 2023-08-22	10.26	10.30	10.10	10.26	30459
## 2023-08-23	10.26	10.26	10.18	10.18	23600
## 2023-08-24	10.30	10.30	10.14	10.24	28800
## 2023-08-25	10.24	10.30	10.02	10.12	70800
## 2023-08-28	10.12	10.20	10.06	10.14	52000
## 2023-08-29	10.14	10.20	10.14	10.16	43200
## 2023-08-30	10.20	10.20	10.12	10.16	16400
## 2023-08-31	10.20	10.20	10.10	10.18	31200
## 2023-09-04	9.90	10.00	9.80	10.00	40454
## 2023-09-05	9.90	10.00	9.90	10.00	5200
## 2023-09-06	10.00	10.00	9.81	10.00	35600
## 2023-09-07	9.99	10.06	9.84	10.06	96000
## 2023-09-11	10.18	10.18	9.83	10.00	7600
## 2023-09-12	9.94	10.00	9.83	10.00	85864
## 2023-09-13	9.90	10.00	9.85	10.00	4000
## 2023-09-14	10.00	10.00	9.81	9.98	10241
## 2023-09-15	9.98	9.98	9.85	9.95	19293
## 2023-09-18	9.82	9.98	9.80	9.92	47600
## 2023-09-19	9.92	10.00	9.88	10.00	84522
## 2023-09-20	10.00	10.08	9.88	10.08	58623
## 2023-09-21	9.90	9.90	9.80	9.90	57168
## 2023-09-22	9.90	9.95	9.69	9.95	55600
## 2023-09-25	9.90	9.90	9.85	9.90	22050
## 2023-09-26	9.85	9.90	9.72	9.90	42800
## 2023-09-27	9.88	9.89	9.81	9.88	15200
## 2023-09-28	9.88	9.88	9.75	9.85	8400
## 2023-09-29	9.80	9.90	9.75	9.85	40345
## 2023-10-03	9.85	9.85	9.74	9.84	7600
## 2023-10-04	9.85	9.85	9.73	9.85	2000
## 2023-10-05	9.85	9.86	9.85	9.86	8400
## 2023-10-06	9.85	9.85	9.75	9.84	16800
## 2023-10-09	9.85	9.90	9.80	9.80	10800
## 2023-10-10	9.80	9.82	9.74	9.80	23200
## 2023-10-11	9.80	9.80	9.75	9.80	18800
## 2023-10-12	9.78	9.82	9.78	9.85	6000
## 2023-10-13	9.85	9.85	9.85	9.85	0
## 2023-10-16	9.80	9.81	9.71	9.71	75200
## 2023-10-17	9.78	9.89	9.67	9.89	16000
## 2023-10-18	9.69	9.85	9.68	9.81	60400
## 2023-10-19	9.70	9.81	9.66	9.77	51200
## 2023-10-20	9.70	9.75	9.70	9.75	2400
## 2023-10-24	9.60	9.85	9.57	9.72	3303
## 2023-10-25	9.57	9.70	9.57	9.60	31600
## 2023-10-26	9.57	9.68	9.56	9.61	12400
## 2023-10-27	9.57	9.57	9.37	9.55	20000
## 2023-10-30	9.52	9.55	9.52	9.55	2000
## 2023-10-31	9.43	9.59	9.43	9.56	42435
## 2023-11-01	9.56	9.56	9.35	9.53	20400
## 2023-11-02	9.55	9.55	9.37	9.51	6832
## 2023-11-03	9.59	9.74	9.59	9.60	11200
## 2023-11-06	9.60	9.60	9.50	9.60	20000
## 2023-11-07	9.50	9.50	9.43	9.50	10070
## 2023-11-08	9.60	9.60	8.61	9.50	63518

## 2023-11-09	9.50	9.50	9.27	9.48	73200
## 2023-11-10	9.35	9.48	9.30	9.48	21600
## 2023-11-13	9.30	9.48	9.30	9.47	12000
## 2023-11-14	9.31	9.44	9.30	9.44	15501
## 2023-11-15	9.39	9.44	9.26	9.44	67000
## 2023-11-16	9.33	9.43	9.30	9.43	24663
## 2023-11-17	9.43	9.43	9.43	9.43	0
## 2023-11-20	9.32	9.37	9.31	9.37	24000
## 2023-11-21	9.37	9.41	9.31	9.33	20504
## 2023-11-22	9.32	9.45	9.32	9.35	8000
## 2023-11-23	9.45	9.45	9.45	9.45	1200
## 2023-11-24	9.34	9.40	9.29	9.40	11015
## 2023-11-27	9.40	9.40	9.34	9.40	8400
## 2023-11-28	9.31	9.45	9.31	9.40	4800
## 2023-11-29	9.33	9.40	9.33	9.40	7200
## 2023-11-30	9.31	9.40	9.31	9.38	26000
## 2023-12-01	9.32	9.38	9.31	9.38	29332
## 2023-12-04	9.18	9.38	9.18	9.38	10400
## 2023-12-05	9.20	9.29	9.00	9.12	117953
## 2023-12-06	9.12	9.21	9.10	9.12	24250
## 2023-12-07	9.13	9.13	9.08	9.13	6672
## 2023-12-08	9.13	9.14	9.00	9.14	6000
## 2023-12-11	9.07	9.28	9.06	9.28	12800
## 2023-12-12	9.20	9.20	9.20	9.20	0
## 2023-12-13	9.15	9.15	9.15	9.14	2000
## 2023-12-14	9.20	9.28	9.20	9.28	5600
## 2023-12-15	9.28	9.28	9.16	9.24	67200
## 2023-12-18	9.20	9.38	9.02	9.38	70000
## 2023-12-19	9.28	9.50	9.12	9.49	53600
## 2023-12-20	9.40	9.45	9.33	9.45	13200
## 2023-12-21	9.26	9.40	9.15	9.38	3879
## 2023-12-22	9.43	9.45	9.28	9.43	30000
## 2023-12-27	9.44	9.44	9.35	9.39	15200
## 2023-12-28	9.40	9.40	9.38	9.40	38805
## 2023-12-29	9.42	9.42	9.42	9.42	800
## 2024-01-02	9.42	9.42	9.28	9.28	145342
## 2024-01-03	9.27	9.29	9.27	9.29	196984
## 2024-01-04	9.28	9.29	9.28	9.28	22800
## 2024-01-05	9.29	9.29	9.13	9.28	59440
## 2024-01-08	9.19	9.31	9.18	9.30	14918
## 2024-01-09	9.20	9.31	9.20	9.31	23564
## 2024-01-10	9.31	9.31	9.31	9.31	0
## 2024-01-11	9.35	9.35	9.30	9.35	20800
## 2024-01-12	9.32	9.33	9.30	9.30	20000
## 2024-01-15	9.30	9.30	9.30	9.30	0
## 2024-01-16	9.45	9.46	9.30	9.41	29200
## 2024-01-17	9.30	9.31	9.26	9.26	44800
## 2024-01-18	9.26	9.26	9.16	9.26	34800
## 2024-01-19	9.16	9.24	9.15	9.16	27810
## 2024-01-22	9.20	9.20	9.00	9.10	58279
## 2024-01-23	8.78	9.20	8.34	9.17	109885
## 2024-01-24	9.17	9.20	9.16	9.18	13600
## 2024-01-25	9.19	9.20	9.12	9.20	23183
## 2024-01-26	9.18	9.20	9.11	9.18	11600
## 2024-01-29	9.11	9.16	9.06	9.09	128800
## 2024-01-30	9.15	9.15	9.00	9.09	64000

## 2024-01-31	9.09	9.09	9.07	9.07	800
## 2024-02-01	9.00	9.02	8.92	9.00	23795
## 2024-02-02	8.99	9.00	8.90	9.00	25600
## 2024-02-05	8.99	9.00	8.99	9.00	7200
## 2024-02-06	9.00	9.20	9.00	9.00	73200
## 2024-02-07	9.00	9.00	9.00	9.00	59320
## 2024-02-08	8.99	9.00	8.99	9.00	47200
## 2024-02-09	9.00	9.00	9.00	9.00	0
## 2024-02-14	9.00	9.00	8.80	9.00	14930
## 2024-02-15	9.00	9.00	8.90	9.00	12400
## 2024-02-16	9.00	9.00	8.90	9.00	170978
## 2024-02-19	9.00	9.00	8.83	9.00	26800
## 2024-02-20	9.00	9.00	9.00	9.00	0
## 2024-02-21	9.00	9.00	8.90	8.99	76116
## 2024-02-22	8.90	8.98	8.89	8.98	26400
## 2024-02-23	8.90	8.99	8.90	8.99	30358
## 2024-02-26	8.99	8.99	8.85	8.99	36889
## 2024-02-27	8.90	8.99	8.81	8.99	76848
## 2024-02-28	9.00	9.00	8.85	8.98	43828
## 2024-02-29	9.00	9.00	8.90	8.98	49600
## 2024-03-01	8.90	8.92	8.80	8.88	68800
## 2024-03-04	8.80	8.90	8.80	8.89	34000
## 2024-03-05	8.85	8.90	8.80	8.90	102633
## 2024-03-06	8.86	8.92	8.81	8.88	53427
## 2024-03-07	8.90	8.90	8.83	8.88	7310
## 2024-03-08	8.88	8.88	8.88	8.98	24503
## 2024-03-11	8.98	8.99	8.90	8.98	29200
## 2024-03-12	8.98	8.99	8.93	8.99	32000
## 2024-03-13	8.97	8.99	8.87	8.99	27875
## 2024-03-14	8.94	8.99	8.86	8.97	68000
## 2024-03-15	8.91	9.00	8.82	9.00	123907
## 2024-03-18	8.98	8.98	8.92	8.96	60800
## 2024-03-19	8.86	9.00	8.86	8.98	18800
## 2024-03-20	8.93	8.98	8.93	8.98	11200
## 2024-03-21	8.98	9.00	8.84	8.97	85124
## 2024-03-22	9.00	9.02	8.94	9.00	380800
## 2024-03-25	9.00	9.06	8.96	9.00	437618
## 2024-03-26	9.00	9.00	8.98	9.00	112400
## 2024-03-27	8.98	9.00	8.96	9.00	60727
## 2024-03-28	9.00	9.00	8.96	9.00	20000
## 2024-04-02	9.00	9.00	8.98	8.99	150400
## 2024-04-03	8.88	8.99	8.88	8.99	20400
## 2024-04-05	8.99	8.99	8.92	8.96	84517
## 2024-04-08	8.96	8.98	8.93	8.98	25733
## 2024-04-09	8.96	8.99	8.95	8.99	51032
## 2024-04-10	8.99	9.00	8.93	9.00	42549
## 2024-04-11	8.91	8.99	8.88	8.95	31342
## 2024-04-12	8.92	8.93	8.90	8.91	102000
## 2024-04-15	8.90	8.95	8.89	8.93	35600
## 2024-04-16	8.92	8.92	8.82	8.86	174800
## 2024-04-17	8.88	8.89	8.86	8.89	18400
## 2024-04-18	8.89	8.92	8.86	8.90	25600
## 2024-04-19	8.90	8.92	8.86	8.92	29200
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## 2015-01-02	11.192545				
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## 2015-01-06	11.520578
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## 2015-01-15	11.625551
## 2015-01-16	11.586187
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## 2015-01-22	11.586187
## 2015-01-23	11.927343
## 2015-01-26	12.320985
## 2015-01-27	12.478440
## 2015-01-28	12.412835
## 2015-01-29	12.242258
## 2015-01-30	12.530928
## 2015-02-02	12.727747
## 2015-02-03	12.740870
## 2015-02-04	12.622780
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## 2015-02-06	12.570293
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## 2015-02-12	12.386591
## 2015-02-13	12.124164
## 2015-02-16	11.887980
## 2015-02-17	12.176649
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## 2015-02-24	12.124164
## 2015-02-25	12.006073
## 2015-02-26	11.835494
## 2015-02-27	11.992949
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## 2015-03-04	11.927343
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## 2015-03-06	11.992949
## 2015-03-09	12.006073
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## 2015-03-11	11.992949
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## 2015-03-25	12.465321
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## 2015-03-27	12.176649
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## 2015-04-02	12.320985
## 2015-04-08	12.242258
## 2015-04-09	12.347229
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## 2015-04-13	12.491563
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## 2015-04-16	12.465321
## 2015-04-17	12.412835
## 2015-04-20	12.320985
## 2015-04-21	12.307862
## 2015-04-22	12.478440
## 2015-04-23	12.491563
## 2015-04-24	12.478440
## 2015-04-27	12.491563
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## 2015-04-30	12.675261
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## 2015-05-07	12.557166
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## 2015-05-14	12.675261
## 2015-05-15	12.662142
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## 2015-05-19	12.727747
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## 2015-06-02	12.691527
## 2015-06-03	13.087290
## 2015-06-04	13.005406
## 2015-06-05	12.978109
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## 2015-06-11	12.868938
## 2015-06-12	12.773412
## 2015-06-15	12.718823
## 2015-06-16	12.909878
## 2015-06-17	12.950817
## 2015-06-18	12.978109
## 2015-06-19	13.169168

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## 2015-06-24	13.100934
## 2015-06-25	13.087290
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## 2015-06-29	13.046347
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## 2015-07-15	13.987977
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## 2015-07-17	14.295030
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## 2015-07-22	14.636198
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## 2015-07-31	14.431495
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## 2015-08-17	15.045600
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## 2015-08-21	14.295030
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## 2015-08-25	14.090326
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## 2015-08-28	14.056209
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## 2015-09-02	13.817391
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## 2015-09-30	14.195719
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## 2015-10-26	13.918728
## 2015-10-27	13.918728
## 2015-10-28	14.195719
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## 2015-11-09	14.299588
## 2015-11-10	14.299588
## 2015-11-11	14.299588
## 2015-11-12	14.299588
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## 2015-11-17	14.230340
## 2015-11-18	14.264963
## 2015-11-19	14.368836
## 2015-11-20	14.299588
## 2015-11-23	14.576578
## 2015-11-24	14.611204
## 2015-11-25	14.541952
## 2015-11-26	14.299588
## 2015-11-27	14.161095
## 2015-11-30	14.299588
## 2015-12-01	14.230340

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## 2015-12-04	14.057221
## 2015-12-07	14.057221
## 2015-12-08	14.299588
## 2015-12-09	14.299588
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## 2023-03-03	10.169391
## 2023-03-06	10.150901
## 2023-03-07	10.076942
## 2023-03-08	10.039962

## 2023-03-09	10.002982
## 2023-03-10	9.947515
## 2023-03-13	9.910534
## 2023-03-14	9.799595
## 2023-03-15	9.651676
## 2023-03-16	9.707147
## 2023-03-17	9.947515
## 2023-03-20	9.688656
## 2023-03-21	9.688656
## 2023-03-22	9.707147
## 2023-03-23	9.522248
## 2023-03-24	9.781105
## 2023-03-27	9.707147
## 2023-03-28	9.781105
## 2023-03-29	9.910534
## 2023-03-30	9.799595
## 2023-03-31	9.799595
## 2023-04-03	9.799595
## 2023-04-04	9.799595
## 2023-04-06	9.799595
## 2023-04-11	9.855064
## 2023-04-12	9.818086
## 2023-04-13	9.762616
## 2023-04-14	9.818086
## 2023-04-17	9.762616
## 2023-04-18	9.781105
## 2023-04-19	9.781105
## 2023-04-20	9.781105
## 2023-04-21	9.707147
## 2023-04-24	9.596208
## 2023-04-25	9.540737
## 2023-04-26	9.522248
## 2023-04-27	9.503757
## 2023-04-28	9.596208
## 2023-05-02	9.688656
## 2023-05-03	9.614697
## 2023-05-04	9.707147
## 2023-05-05	9.707147
## 2023-05-08	9.744125
## 2023-05-09	9.744125
## 2023-05-10	9.744125
## 2023-05-11	9.836576
## 2023-05-12	9.892044
## 2023-05-15	9.892044
## 2023-05-16	9.781105
## 2023-05-17	9.799595
## 2023-05-18	9.836576
## 2023-05-19	9.744125
## 2023-05-22	9.685893
## 2023-05-23	9.656777
## 2023-05-24	9.608251
## 2023-05-25	9.559726
## 2023-05-29	9.569430
## 2023-05-30	10.190570
## 2023-05-31	9.782947
## 2023-06-01	9.763536

## 2023-06-02	9.899410
## 2023-06-05	9.880000
## 2023-06-06	9.705304
## 2023-06-07	9.744125
## 2023-06-08	9.705304
## 2023-06-09	9.705304
## 2023-06-12	9.705304
## 2023-06-13	9.705304
## 2023-06-14	9.608251
## 2023-06-15	9.666483
## 2023-06-16	9.588840
## 2023-06-19	9.598546
## 2023-06-20	9.656777
## 2023-06-21	9.598546
## 2023-06-23	9.608251
## 2023-06-26	9.627662
## 2023-06-27	9.472378
## 2023-06-28	9.559726
## 2023-06-29	9.559726
## 2023-06-30	9.608251
## 2023-07-03	9.705304
## 2023-07-04	9.705304
## 2023-07-05	9.695599
## 2023-07-06	9.647072
## 2023-07-07	9.540315
## 2023-07-10	9.637367
## 2023-07-11	9.627662
## 2023-07-12	9.617956
## 2023-07-13	9.705304
## 2023-07-14	10.093516
## 2023-07-18	10.054695
## 2023-07-19	10.054695
## 2023-07-20	10.074106
## 2023-07-21	10.054695
## 2023-07-24	10.035285
## 2023-07-25	9.938231
## 2023-07-26	9.802358
## 2023-07-27	9.802358
## 2023-07-28	9.782947
## 2023-07-31	9.744125
## 2023-08-01	9.802358
## 2023-08-02	9.782947
## 2023-08-03	9.996464
## 2023-08-04	9.821768
## 2023-08-07	9.899410
## 2023-08-08	9.899410
## 2023-08-09	9.802358
## 2023-08-10	9.860589
## 2023-08-11	9.996464
## 2023-08-14	9.996464
## 2023-08-15	10.054695
## 2023-08-16	10.054695
## 2023-08-17	10.093516
## 2023-08-18	10.112927
## 2023-08-21	9.957643
## 2023-08-22	9.957643

## 2023-08-23	9.880000
## 2023-08-24	9.938231
## 2023-08-25	9.821768
## 2023-08-28	9.841179
## 2023-08-29	9.860589
## 2023-08-30	9.860589
## 2023-08-31	9.880000
## 2023-09-04	10.000000
## 2023-09-05	10.000000
## 2023-09-06	10.000000
## 2023-09-07	10.060000
## 2023-09-11	10.000000
## 2023-09-12	10.000000
## 2023-09-13	10.000000
## 2023-09-14	9.980000
## 2023-09-15	9.950000
## 2023-09-18	9.920000
## 2023-09-19	10.000000
## 2023-09-20	10.080000
## 2023-09-21	9.900000
## 2023-09-22	9.950000
## 2023-09-25	9.900000
## 2023-09-26	9.900000
## 2023-09-27	9.880000
## 2023-09-28	9.850000
## 2023-09-29	9.850000
## 2023-10-03	9.840000
## 2023-10-04	9.850000
## 2023-10-05	9.860000
## 2023-10-06	9.840000
## 2023-10-09	9.800000
## 2023-10-10	9.800000
## 2023-10-11	9.800000
## 2023-10-12	9.850000
## 2023-10-13	9.850000
## 2023-10-16	9.710000
## 2023-10-17	9.890000
## 2023-10-18	9.810000
## 2023-10-19	9.770000
## 2023-10-20	9.750000
## 2023-10-24	9.720000
## 2023-10-25	9.600000
## 2023-10-26	9.610000
## 2023-10-27	9.550000
## 2023-10-30	9.550000
## 2023-10-31	9.560000
## 2023-11-01	9.530000
## 2023-11-02	9.510000
## 2023-11-03	9.600000
## 2023-11-06	9.600000
## 2023-11-07	9.500000
## 2023-11-08	9.500000
## 2023-11-09	9.480000
## 2023-11-10	9.480000
## 2023-11-13	9.470000
## 2023-11-14	9.440000

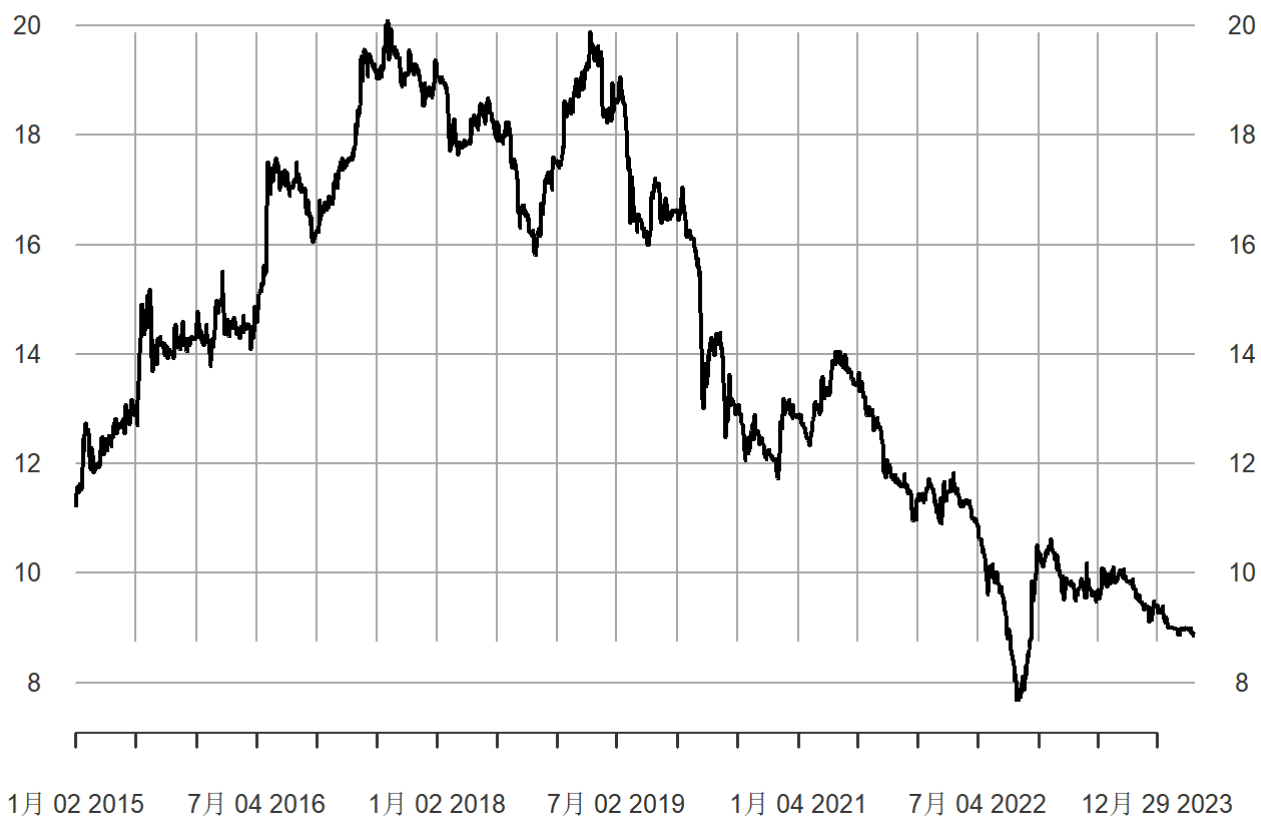
## 2023-11-15	9.440000
## 2023-11-16	9.430000
## 2023-11-17	9.430000
## 2023-11-20	9.370000
## 2023-11-21	9.330000
## 2023-11-22	9.350000
## 2023-11-23	9.450000
## 2023-11-24	9.400000
## 2023-11-27	9.400000
## 2023-11-28	9.400000
## 2023-11-29	9.400000
## 2023-11-30	9.380000
## 2023-12-01	9.380000
## 2023-12-04	9.380000
## 2023-12-05	9.120000
## 2023-12-06	9.120000
## 2023-12-07	9.130000
## 2023-12-08	9.140000
## 2023-12-11	9.280000
## 2023-12-12	9.200000
## 2023-12-13	9.140000
## 2023-12-14	9.280000
## 2023-12-15	9.240000
## 2023-12-18	9.380000
## 2023-12-19	9.490000
## 2023-12-20	9.450000
## 2023-12-21	9.380000
## 2023-12-22	9.430000
## 2023-12-27	9.390000
## 2023-12-28	9.400000
## 2023-12-29	9.420000
## 2024-01-02	9.280000
## 2024-01-03	9.290000
## 2024-01-04	9.280000
## 2024-01-05	9.280000
## 2024-01-08	9.300000
## 2024-01-09	9.310000
## 2024-01-10	9.310000
## 2024-01-11	9.350000
## 2024-01-12	9.300000
## 2024-01-15	9.300000
## 2024-01-16	9.410000
## 2024-01-17	9.260000
## 2024-01-18	9.260000
## 2024-01-19	9.160000
## 2024-01-22	9.100000
## 2024-01-23	9.170000
## 2024-01-24	9.180000
## 2024-01-25	9.200000
## 2024-01-26	9.180000
## 2024-01-29	9.090000
## 2024-01-30	9.090000
## 2024-01-31	9.070000
## 2024-02-01	9.000000
## 2024-02-02	9.000000
## 2024-02-05	9.000000

## 2024-02-06	9.000000
## 2024-02-07	9.000000
## 2024-02-08	9.000000
## 2024-02-09	9.000000
## 2024-02-14	9.000000
## 2024-02-15	9.000000
## 2024-02-16	9.000000
## 2024-02-19	9.000000
## 2024-02-20	9.000000
## 2024-02-21	8.990000
## 2024-02-22	8.980000
## 2024-02-23	8.990000
## 2024-02-26	8.990000
## 2024-02-27	8.990000
## 2024-02-28	8.980000
## 2024-02-29	8.980000
## 2024-03-01	8.880000
## 2024-03-04	8.890000
## 2024-03-05	8.900000
## 2024-03-06	8.880000
## 2024-03-07	8.880000
## 2024-03-08	8.980000
## 2024-03-11	8.980000
## 2024-03-12	8.990000
## 2024-03-13	8.990000
## 2024-03-14	8.970000
## 2024-03-15	9.000000
## 2024-03-18	8.960000
## 2024-03-19	8.980000
## 2024-03-20	8.980000
## 2024-03-21	8.970000
## 2024-03-22	9.000000
## 2024-03-25	9.000000
## 2024-03-26	9.000000
## 2024-03-27	9.000000
## 2024-03-28	9.000000
## 2024-04-02	8.990000
## 2024-04-03	8.990000
## 2024-04-05	8.960000
## 2024-04-08	8.980000
## 2024-04-09	8.990000
## 2024-04-10	9.000000
## 2024-04-11	8.950000
## 2024-04-12	8.910000
## 2024-04-15	8.930000
## 2024-04-16	8.860000
## 2024-04-17	8.890000
## 2024-04-18	8.900000
## 2024-04-19	8.920000

```
TI=TI$"0062.HK.Adjusted"  
plot(TI)
```

TI

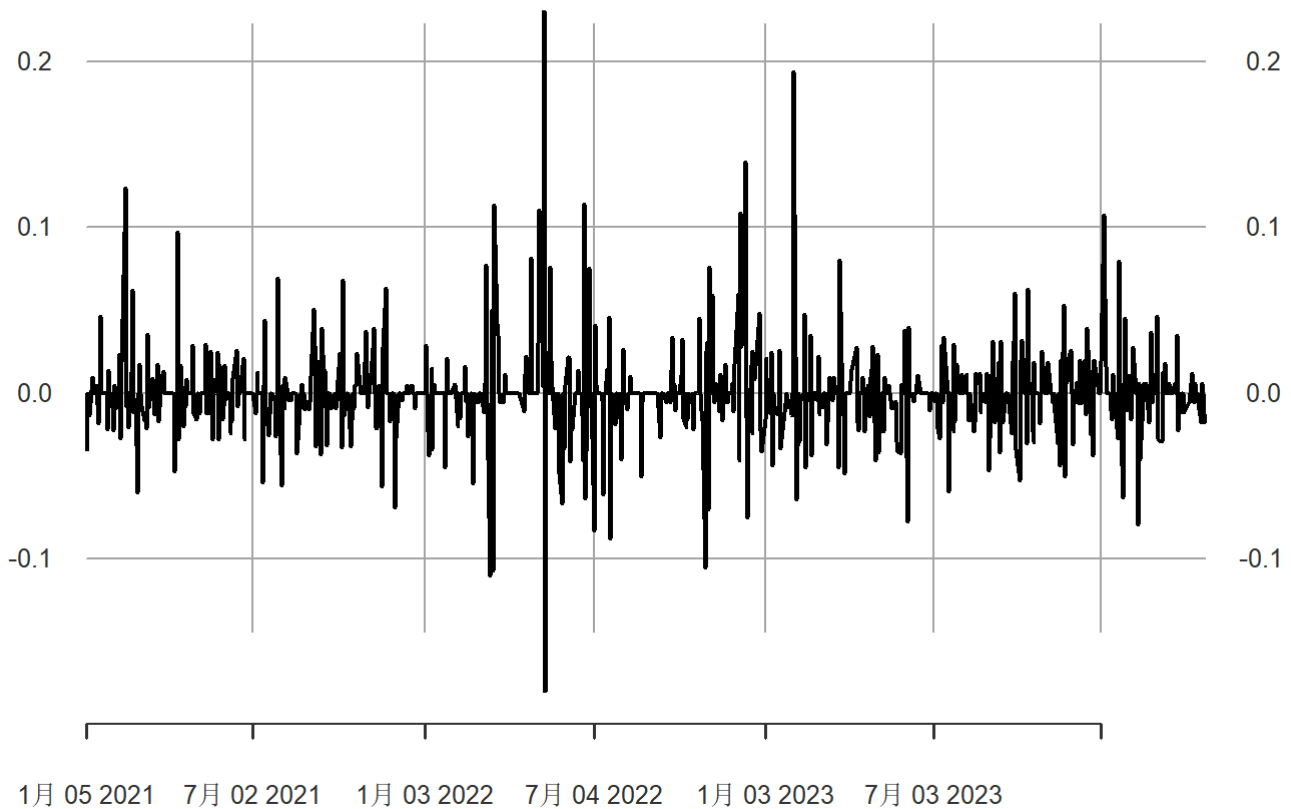
2015-01-02 / 2024-04-19



```
##### KC
library(forecast)
# 差分+平稳性检验
KC_dr = diff(KC) / lag(KC)
KC_dr = na.omit(KC_dr)
plot(KC_dr)
```

KC\_dr

2021-01-05 / 2024-04-19



```
ndiffs(KC_dr) # 差分0次
```

```
## [1] 0
```

```
length(KC_dr)
```

```
## [1] 809
```

```
library(tseries)
pp.test(KC_dr) # < 0.05 则平稳
```

```
## Warning in pp.test(KC_dr): p-value smaller than printed p-value
```

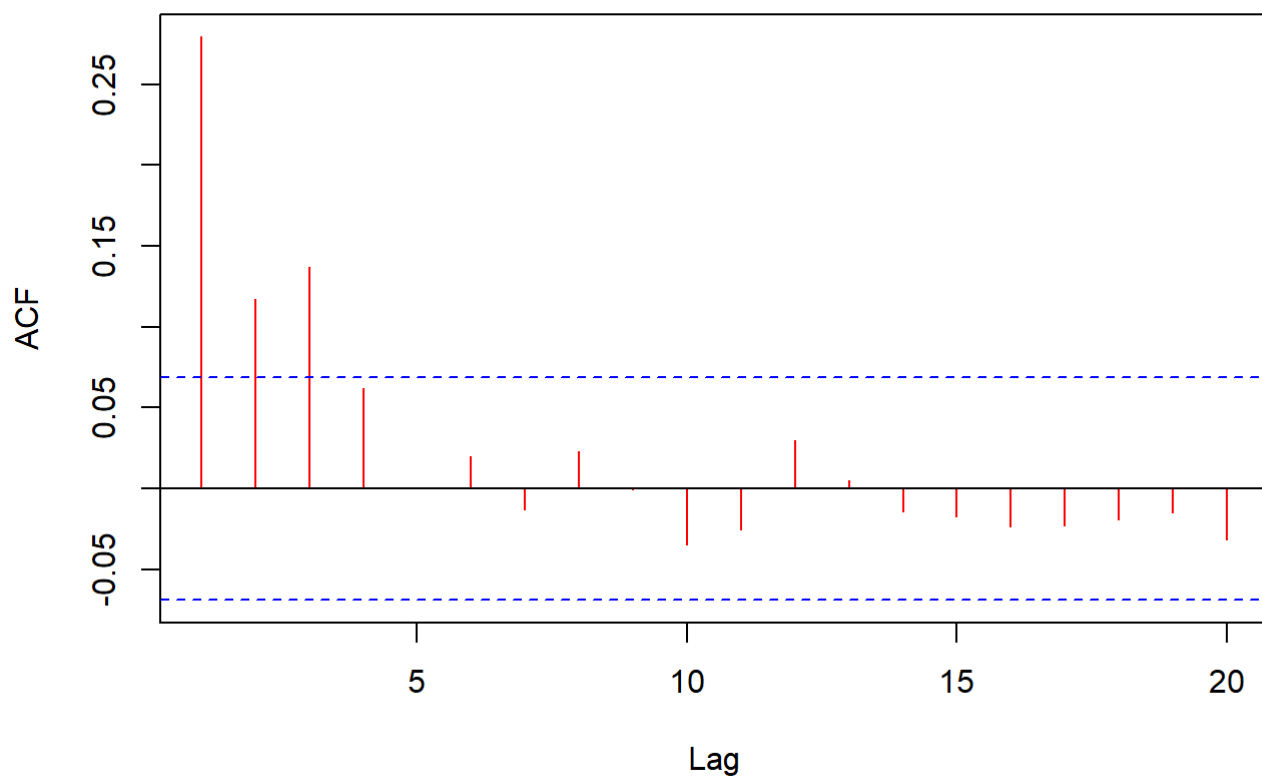
```
##
## Phillips-Perron Unit Root Test
##
## data: KC_dr
## Dickey-Fuller Z(alpha) = -880.95, Truncation lag parameter = 6, p-value
## = 0.01
## alternative hypothesis: stationary
```



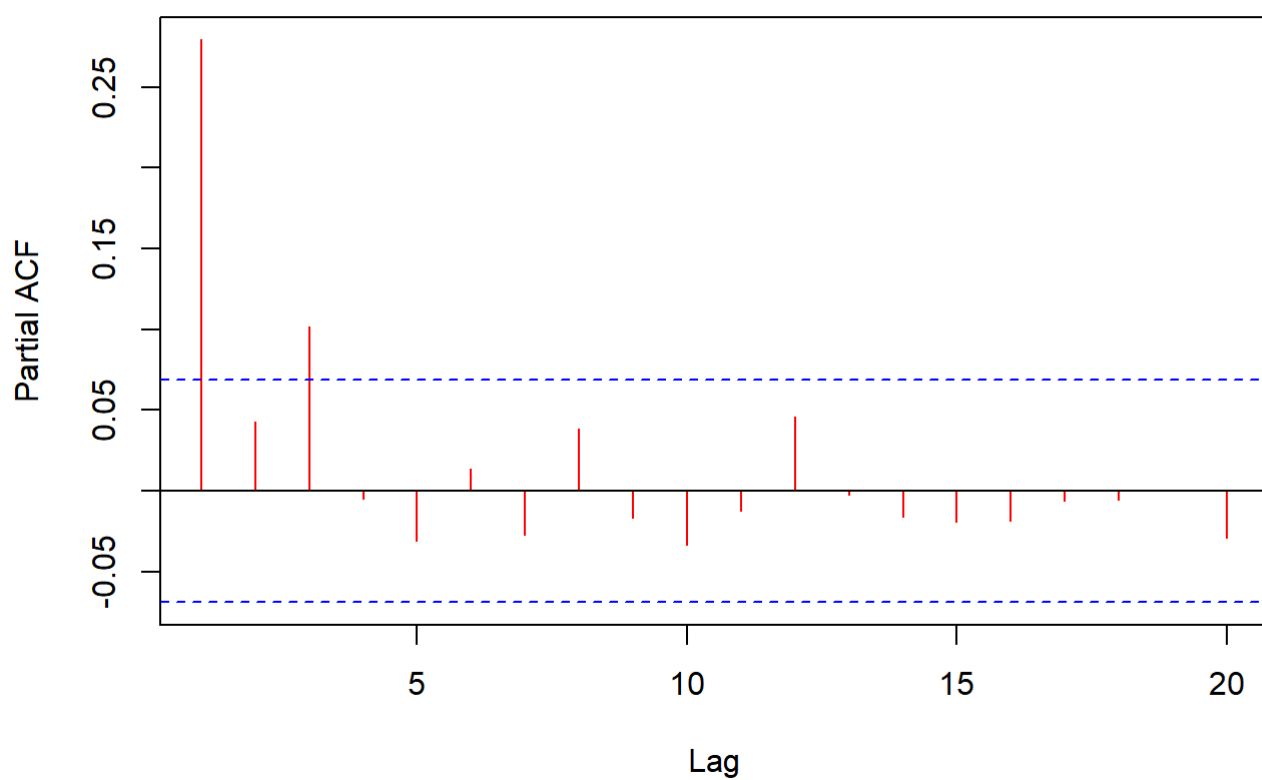
```
# 白噪声检验
for( i in c(2,5,9,11) ){
  print(Box.test(KC_dr, lag=i, type="Ljung-Box"))
} # < 0.05 则非白噪声, 有意义
```

```
##
## Box-Ljung test
##
## data: KC_dr
## X-squared = 14.958, df = 2, p-value = 0.0005647
##
##
## Box-Ljung test
##
## data: KC_dr
## X-squared = 15.839, df = 5, p-value = 0.00732
##
##
## Box-Ljung test
##
## data: KC_dr
## X-squared = 19.121, df = 9, p-value = 0.02418
##
##
## Box-Ljung test
##
## data: KC_dr
## X-squared = 19.202, df = 11, p-value = 0.05757
```

```
# ARCH效应检验
KC_dr_at=KC_dr-mean(KC_dr)
acf(KC_dr_at^2, 20, main="", col="red")
```



```
pacf(KC_dr_at^2, 20, main="", col="red")
```



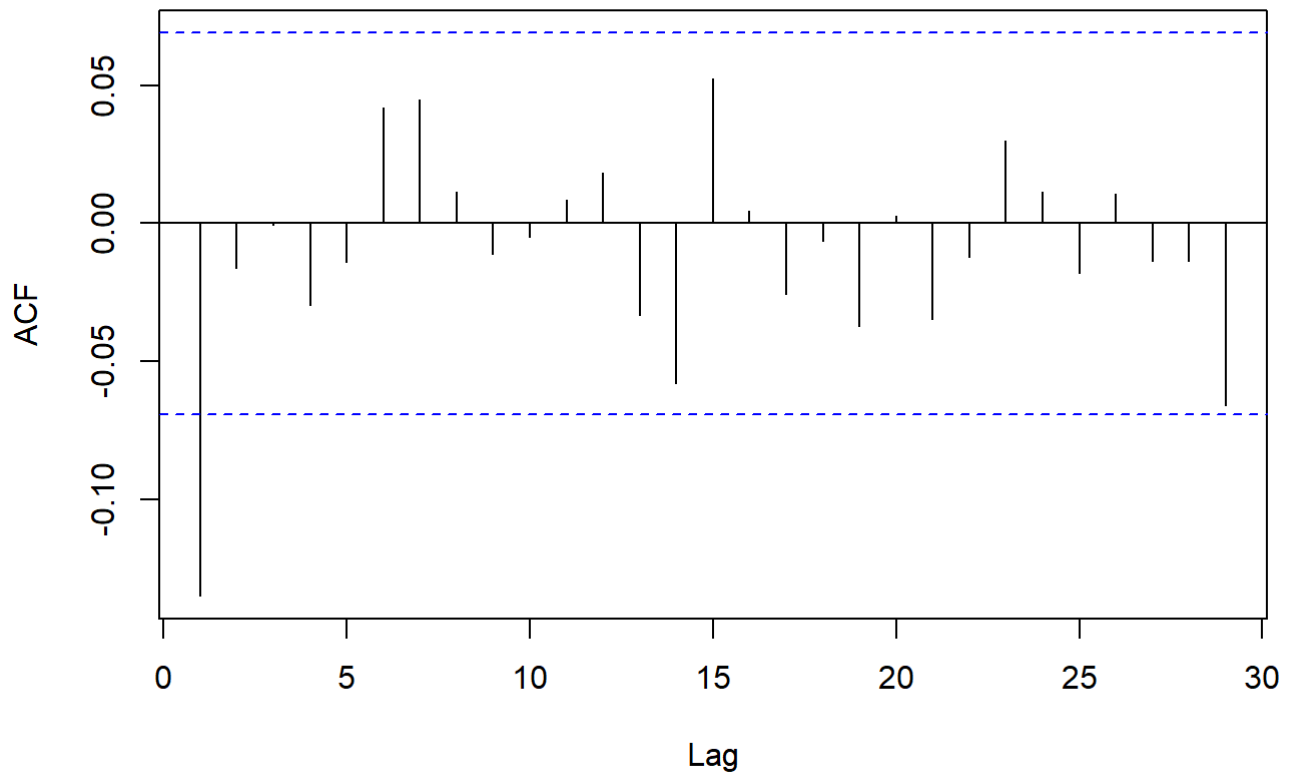
```
for( i in c(2,5,9,11) ){  
  print(Box.test(KC_dr_at^2, lag=i, type="Ljung-Box"))  
} # 若无ARCH效应, 应>0.05
```

```
##  
## Box-Ljung test  
##  
## data: KC_dr_at^2  
## X-squared = 74.613, df = 2, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: KC_dr_at^2  
## X-squared = 92.985, df = 5, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: KC_dr_at^2  
## X-squared = 93.873, df = 9, p-value = 2.22e-16  
##  
##  
## Box-Ljung test  
##  
## data: KC_dr_at^2  
## X-squared = 95.4, df = 11, p-value = 1.443e-15
```

```
# 存在ARCH效应
```

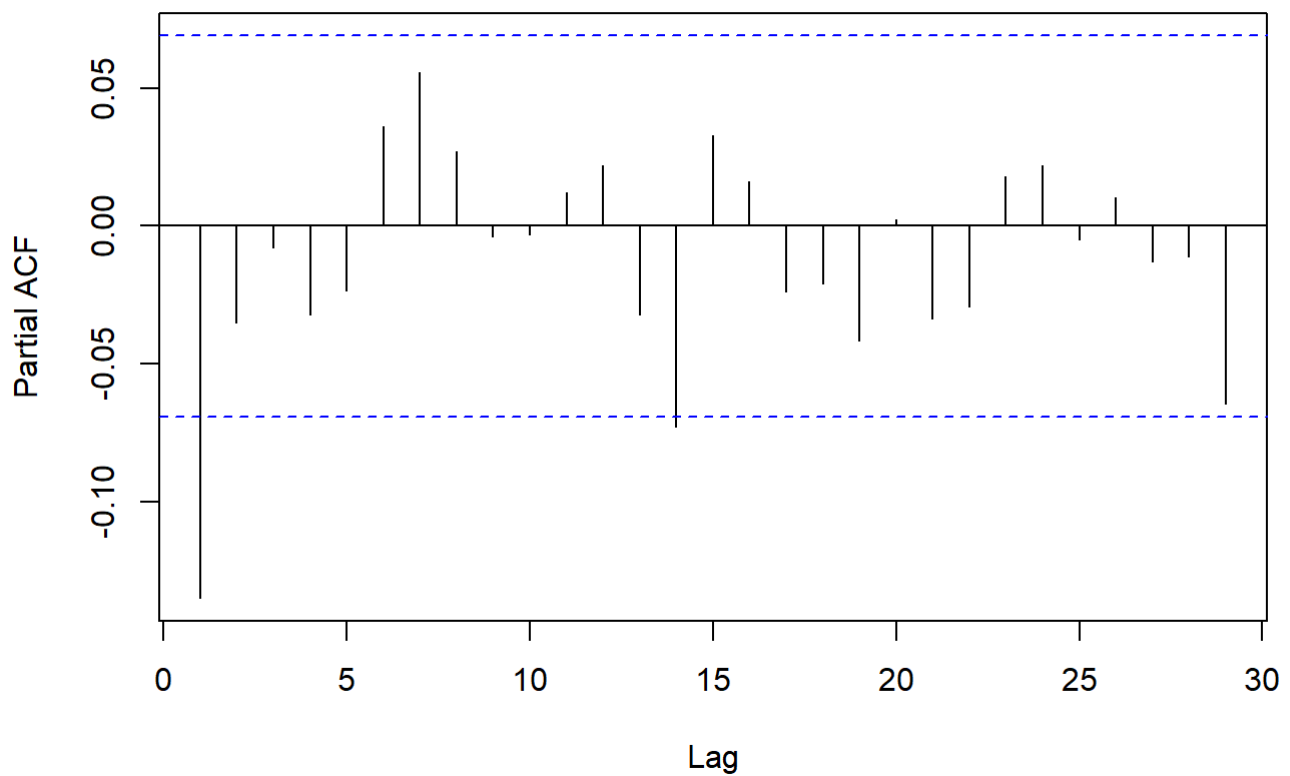
```
# ARMA模型识别  
acf(KC_dr)
```

**Series KC\_dr**



`pacf(KC_dr)`

**Series KC\_dr**



```
library(TSA)
eacf(KC_dr)
```

```
## AR/MA
##   0 1 2 3 4 5 6 7 8 9 10 11 12 13
## 0 x o o o o o o o o o o o o o
## 1 x o o o o o o o o o o o o o
## 2 x o o o o o o o o o o o o o
## 3 x x x o o o o o o o o o o
## 4 x x x o o o o o o o o o o
## 5 x x x x x o o o o o o o o
## 6 x x x o o o o o o o o o o
## 7 x x x x o o x o o o o o o
```

```
auto.arima(KC_dr, trace = T)
```

```
##
## Fitting models using approximations to speed things up...
##
## ARIMA(2,0,2) with non-zero mean : -3482.303
## ARIMA(0,0,0) with non-zero mean : -3474.608
## ARIMA(1,0,0) with non-zero mean : -3487.999
## ARIMA(0,0,1) with non-zero mean : -3488.263
## ARIMA(0,0,0) with zero mean      : -3476.618
## ARIMA(1,0,1) with non-zero mean : -3487.277
## ARIMA(0,0,2) with non-zero mean : -3486.544
## ARIMA(1,0,2) with non-zero mean : -3485.269
## ARIMA(0,0,1) with zero mean      : -3490.277
## ARIMA(1,0,1) with zero mean      : -3489.297
## ARIMA(0,0,2) with zero mean      : -3488.563
## ARIMA(1,0,0) with zero mean      : -3490.013
## ARIMA(1,0,2) with zero mean      : -3487.178
##
## Now re-fitting the best model(s) without approximations...
##
## ARIMA(0,0,1) with zero mean      : -3490.29
##
## Best model: ARIMA(0,0,1) with zero mean
```

```
## Series: KC_dr
## ARIMA(0,0,1) with zero mean
##
## Coefficients:
##           ma1
##        -0.1427
## s.e.      0.0356
##
## sigma^2 = 0.0007802: log likelihood = 1747.15
## AIC=-3490.3   AICc=-3490.29   BIC=-3480.91
```

```
Arima(KC_dr, order = c(0,0,1), include.drift = T)$aic
```

```
## [1] -3486.354
```

```
Arima(KC_dr, order = c(0,0,2), include.drift = T)$aic
```

```
## [1] -3484.658
```

```
Arima(KC_dr, order = c(1,0,1), include.drift = T)$aic
```

```
## [1] -3484.716
```

```
Arima(KC_dr, order = c(1,0,2), include.drift = T)$aic
```

```
## [1] -3482.783
```

```
Arima(KC_dr, order = c(2,0,1), include.drift = T)$aic
```

```
## [1] -3482.799
```

```
Arima(KC_dr, order = c(2,0,2), include.drift = T)$aic
```

```
## [1] -3480.751
```

```
# ARMA参数估计  
# 使用forecast包里的Arima(), 包含漂移项的影响  
KC_md = Arima(KC_dr, order = c(0,0,1), include.drift = T)
```

```
# ARMA参数显著性检验  
# t统计量  
t = abs(KC_md$coef)/sqrt(diag(KC_md$var.coef))  
# 自由度  
df_t = length(KC_dr)-length(KC_md$coef)  
# pt()  
pt(t, df_t, lower.tail = F)
```

```
##          ma1      intercept          drift  
## 3.276288e-05 4.305900e-01 4.912205e-01
```

```
# p<0.05, 则显著  
# intercept, ma2, drift不显著
```

```
## 残差检验
# library(stats)
# tsdiag(KC_md)

## ARCH效应验证
# library(aTSA)
# tent = arima(KC_dr, order = c(0,0,1), method = 'ML')
# arch.test(tent, output = T) # 上半残差序列及平方序列的散点图, 下半PQ检验和LM检验的P值, p小拒绝
# 原假设, 具备异方差性, 考虑低阶GARCH

# ARMA-EGARCH 拟合
library(fGarch)
library(rugarch)
KC_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),
                    mean.model=list(armaOrder=c(0,1), include.mean = TRUE),
                    distribution.model = "sstd")

KC_md_2=ugarchfit(spec=KC_spec, data=KC_dr)
KC_md_2  ### 去除不显著部分alpha1
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error   t value Pr(>|t|)
## mu      -0.000928    0.000385  -2.41027 0.015941
## mal     -0.081765    0.025737  -3.17688 0.001489
## omega   -1.074257    0.208733  -5.14657 0.000000
## alpha1   0.093732    0.203218   0.46124 0.644629
## betal    0.792976    0.046493  17.05599 0.000000
## gamma1   1.992712    0.259941   7.66603 0.000000
## skew     0.977040    0.024690  39.57227 0.000000
## shape    2.029620    0.002113 960.31523 0.000000
##
## Robust Standard Errors:
##      Estimate  Std. Error   t value Pr(>|t|)
## mu      -0.000928    0.000334  -2.77571 0.005508
## mal     -0.081765    0.023765  -3.44057 0.000580
## omega   -1.074257    0.294449  -3.64836 0.000264
## alpha1   0.093732    0.283108   0.33108 0.740583
## betal    0.792976    0.062541  12.67924 0.000000
## gamma1   1.992712    0.408799   4.87455 0.000001
## skew     0.977040    0.018239  53.56963 0.000000
## shape    2.029620    0.002901 699.65240 0.000000
##
## LogLikelihood : 2062.058
##
## Information Criteria
## -----
##
## Akaike      -5.0780
## Bayes       -5.0316
## Shibata     -5.0782
## Hannan-Quinn -5.0602
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##              statistic p-value
## Lag[1]              0.04342 0.8349
## Lag[2*(p+q)+(p+q)-1][2] 2.00103 0.2130
## Lag[4*(p+q)+(p+q)-1][5] 3.38061 0.3419
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----

```



```

##                                statistic p-value
## Lag[1]                        0.4867  0.4854
## Lag[2*(p+q)+(p+q)-1][5]      0.7790  0.9073
## Lag[4*(p+q)+(p+q)-1][9]      1.0581  0.9837
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##           Statistic Shape Scale P-Value
## ARCH Lag[3]    0.2579 0.500 2.000  0.6115
## ARCH Lag[5]    0.5255 1.440 1.667  0.8761
## ARCH Lag[7]    0.6448 2.315 1.543  0.9635
##
## Nyblom stability test
## -----
## Joint Statistic:  1.4959
## Individual Statistics:
## mu      0.04753
## mal     0.21575
## omega   0.38237
## alpha1  0.16101
## beta1   0.35770
## gamma1  0.07751
## skew    0.13976
## shape   0.31429
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.89 2.11 2.59
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##           t-value   prob sig
## Sign Bias      0.4994 0.6176
## Negative Sign Bias 1.2580 0.2088
## Positive Sign Bias 0.4859 0.6272
## Joint Effect    1.8275 0.6090
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20      680.8  4.162e-132
## 2    30      797.4  4.064e-149
## 3    40      816.5  3.857e-146
## 4    50      884.6  1.005e-153
##
##
## Elapsed time : 0.955447

```

```
KC_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),  
                    mean.model=list(armaOrder=c(0,1), include.mean = TRUE),  
                    distribution.model = "sstd", fixed.pars = c(alpha1 = 0))
```

```
KC_md_2=ugarchfit(spec=KC_spec, data=KC_dr)
```

```
KC_md_2
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error  t value Pr(>|t|)
## mu      -0.001123    0.000526  -2.1360 0.032682
## mal      -0.080011    0.027381  -2.9222 0.003476
## omega    -1.220427    0.324506  -3.7609 0.000169
## alpha1    0.000000         NA         NA         NA
## beta1     0.808370    0.050883  15.8868 0.000000
## gamma1    1.000000    0.185456   5.3921 0.000000
## skew      0.968709    0.028698  33.7557 0.000000
## shape     2.099821    0.031398  66.8775 0.000000
##
## Robust Standard Errors:
##      Estimate  Std. Error  t value Pr(>|t|)
## mu      -0.001123    0.000601  -1.8675 0.061826
## mal      -0.080011    0.025045  -3.1947 0.001400
## omega    -1.220427    0.405790  -3.0075 0.002634
## alpha1    0.000000         NA         NA         NA
## beta1     0.808370    0.065407  12.3591 0.000000
## gamma1    1.000000    0.158729   6.3000 0.000000
## skew      0.968709    0.027577  35.1273 0.000000
## shape     2.099821    0.015028 139.7302 0.000000
##
## LogLikelihood : 2060.063
##
## Information Criteria
## -----
##
## Akaike      -5.0756
## Bayes       -5.0349
## Shibata     -5.0757
## Hannan-Quinn -5.0600
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##              statistic p-value
## Lag[1]              0.06792 0.7944
## Lag[2*(p+q)+(p+q)-1][2] 2.21661 0.1495
## Lag[4*(p+q)+(p+q)-1][5] 3.73056 0.2716
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----

```

```

##                                statistic p-value
## Lag[1]                        0.3780  0.5386
## Lag[2*(p+q)+(p+q)-1][5]      0.5899  0.9430
## Lag[4*(p+q)+(p+q)-1][9]      0.8360  0.9921
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##           Statistic Shape Scale P-Value
## ARCH Lag[3]    0.1821 0.500 2.000  0.6696
## ARCH Lag[5]    0.4209 1.440 1.667  0.9067
## ARCH Lag[7]    0.5127 2.315 1.543  0.9772
##
## Nyblom stability test
## -----
## Joint Statistic:  4.6807
## Individual Statistics:
## mu      0.0474
## mal     0.2073
## omega   0.3522
## betal   0.3309
## gamma1  0.2154
## skew    0.1389
## shape   0.3581
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.69 1.9 2.35
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##           t-value    prob sig
## Sign Bias      1.6898 0.09146  *
## Negative Sign Bias 0.0424 0.96619
## Positive Sign Bias 0.8337 0.40468
## Joint Effect     4.0898 0.25193
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20      617.8  8.931e-119
## 2    30      814.0  1.324e-152
## 3    40      768.5  3.278e-136
## 4    50      847.7  3.920e-146
##
##
## Elapsed time : 1.951127

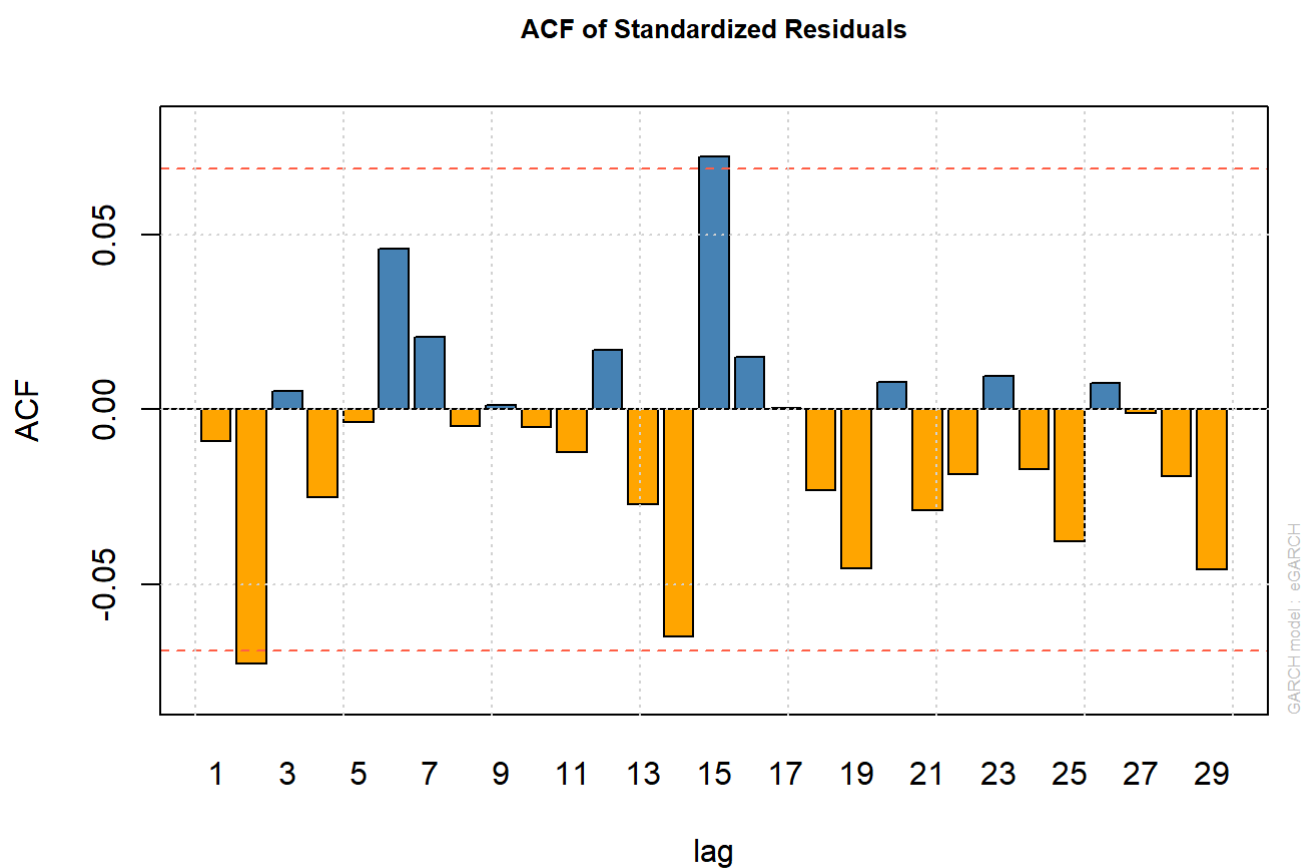
```

```

# model: ARMA(0,1)-EGARCH(1,1)
#  $r_t = \mu_t + a_t$ 
#  $\mu_t = \mu_0 - \theta_1 * a_{t-1}$ 
#  $a_t = \sigma_t * \varepsilon_t$ 
#  $\ln[(\sigma_t)^2] = \alpha_0 + [\alpha_1 * (\varepsilon_{t-1}) + \gamma_1(|\varepsilon_{t-1}| - E|\varepsilon_{t-1}|)] + \beta_1 * \ln[(\sigma_{t-1})^2]$ 
# where  $\mu_0 = -0.001123$ ,  $\theta_1 = -0.080011$ ,  $\alpha_0 = -1.220427$ ,  $\alpha_1 = 0$ ,  $\beta_1 = 0.808370$ ,  $\gamma_1 = 1.00000$ 
# skew > 0, 分布右偏; shape < 3, 扁平
#  $\alpha_1 = 0$ , 不存在杠杆效应

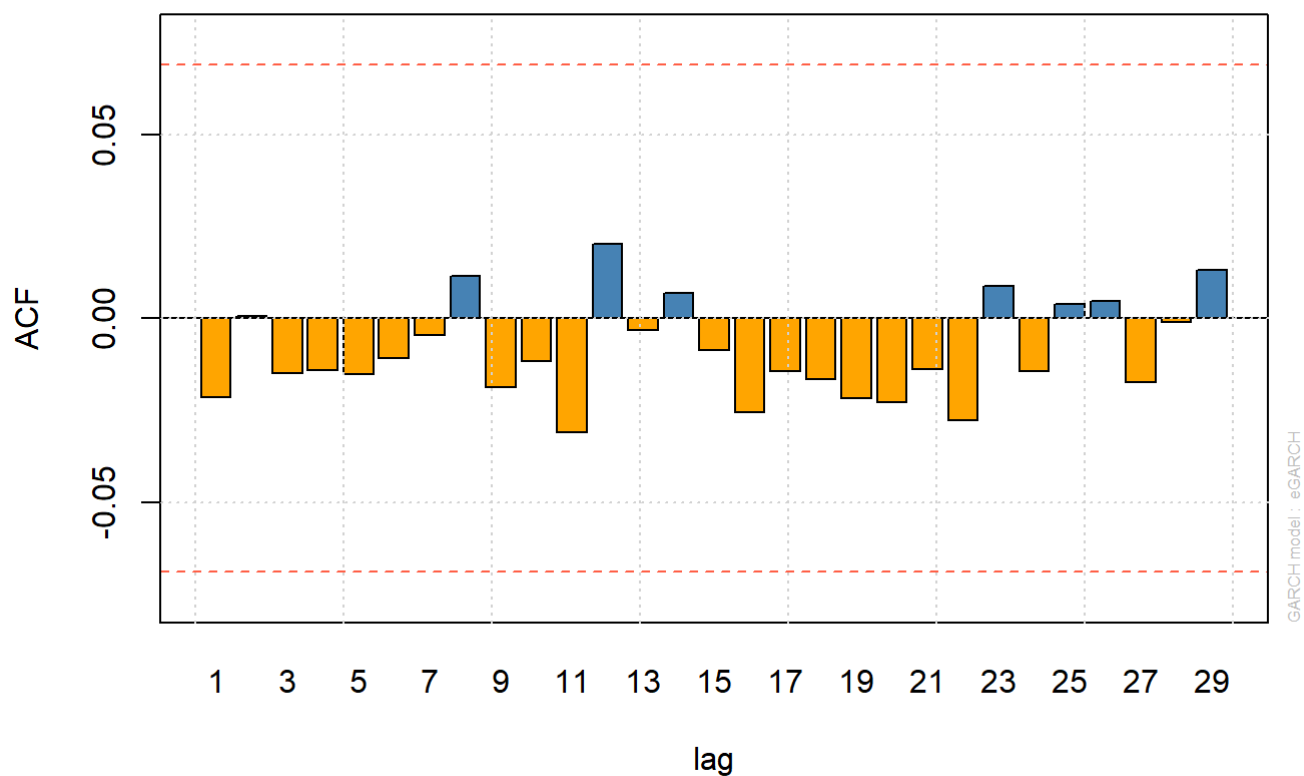
```

```
plot(KC_md_2, which = 10)
```



```
plot(KC_md_2, which = 11)
```

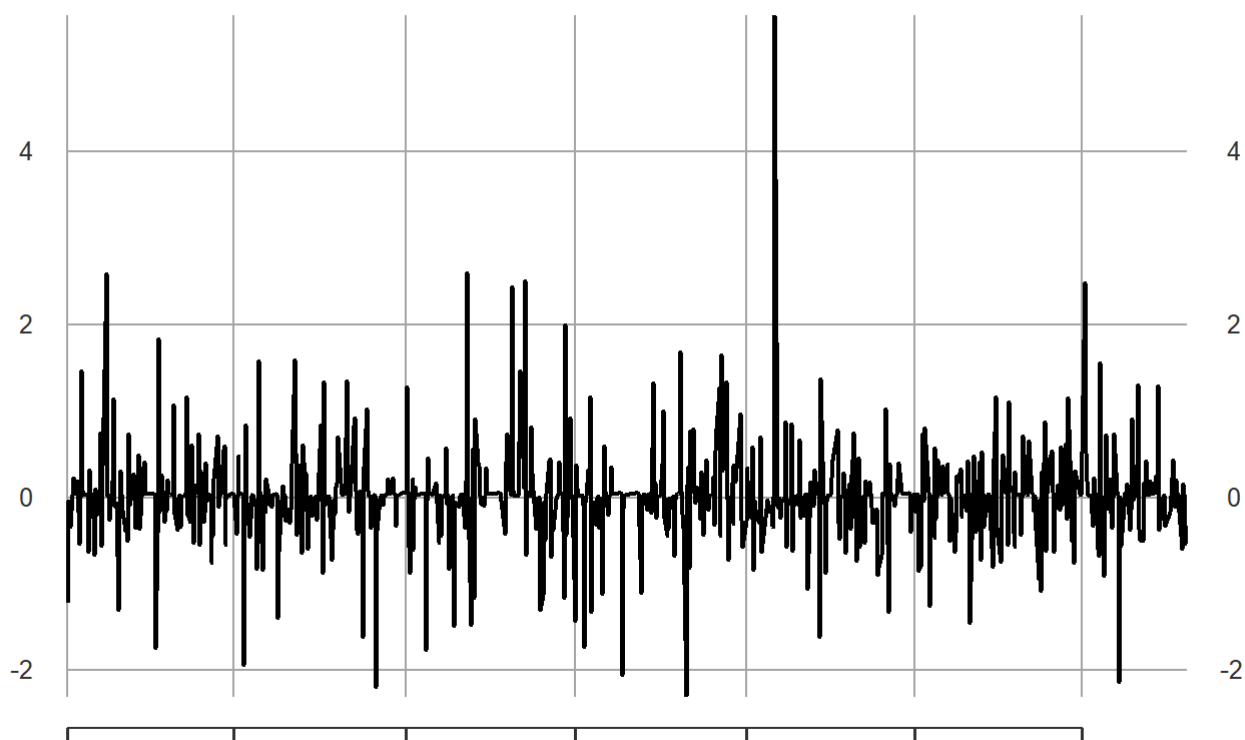
ACF of Squared Standardized Residuals



```
KC_stresi=residuals(KC_md_2,standardize=T)
plot(KC_stresi,type="l")
```

KC\_stresi

2021-01-05 / 2024-04-19



1月 05 2021 7月 02 2021 1月 03 2022 7月 04 2022 1月 03 2023 7月 03 2023

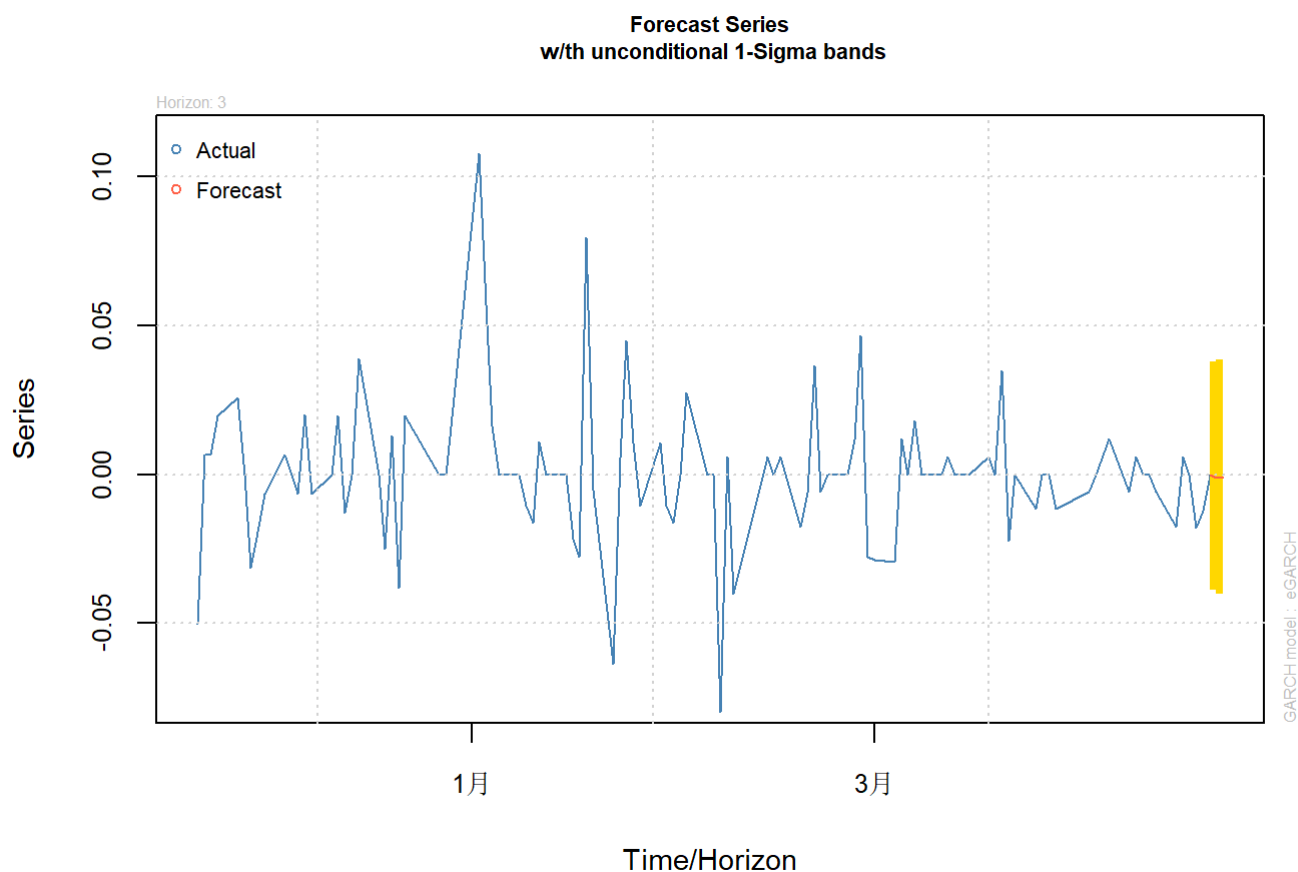
```
Box.test(KC_stresi, 808, type="Ljung-Box", fitdf = 4) # p-value > 0.05, white noise
```

```
##  
## Box-Ljung test  
##  
## data: KC_stresi  
## X-squared = 760.56, df = 804, p-value = 0.8614
```

```
Box.test(KC_stresi^2, 808, type="Ljung-Box", fitdf = 4) # p-value > 0.05, remains no ARCH effect
```

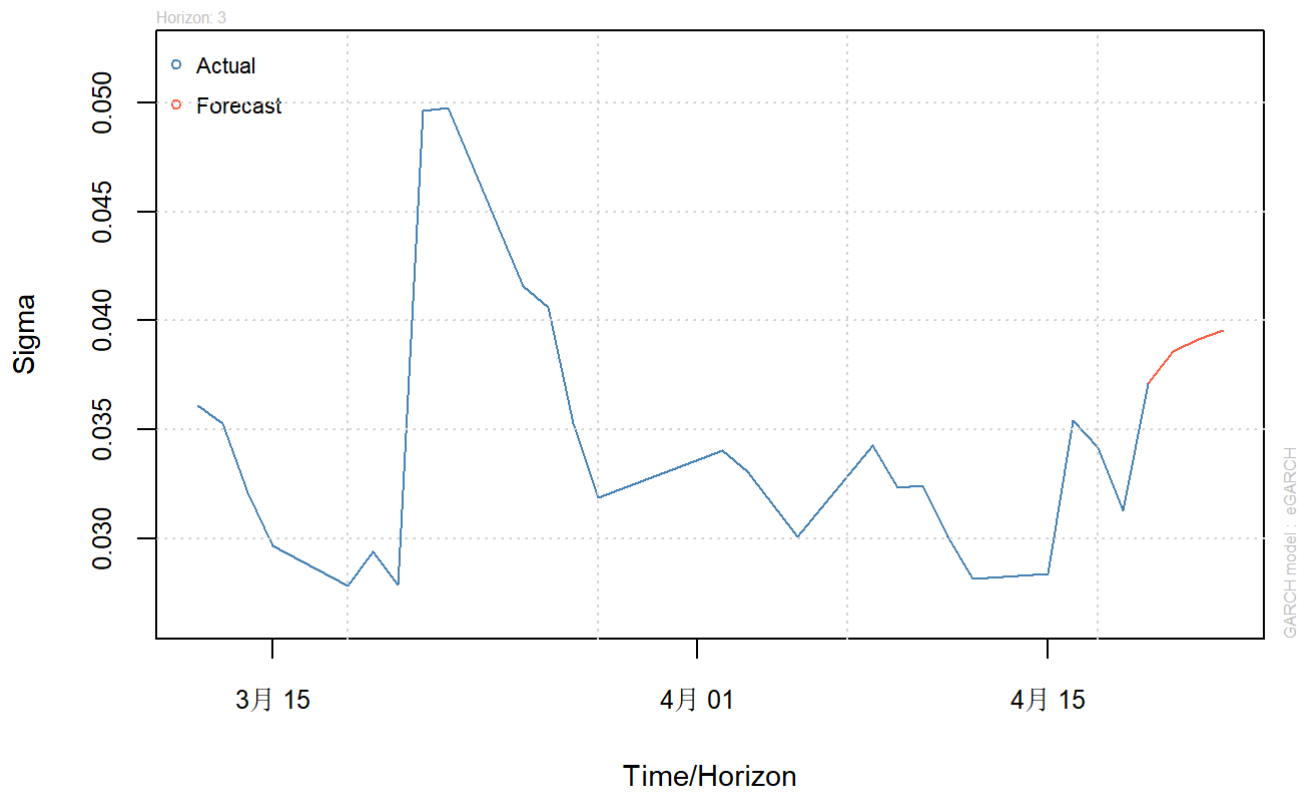
```
##  
## Box-Ljung test  
##  
## data: KC_stresi^2  
## X-squared = 365.42, df = 804, p-value = 1
```

```
# 模型预测  
forecast = ugarchforecast(KC_md_2, n.ahead = 3, data=KC_dr)  
plot(forecast, which = 1)
```



```
plot(forecast, which = 3)
```

# Forecast Unconditional Sigma (n.roll = 0)

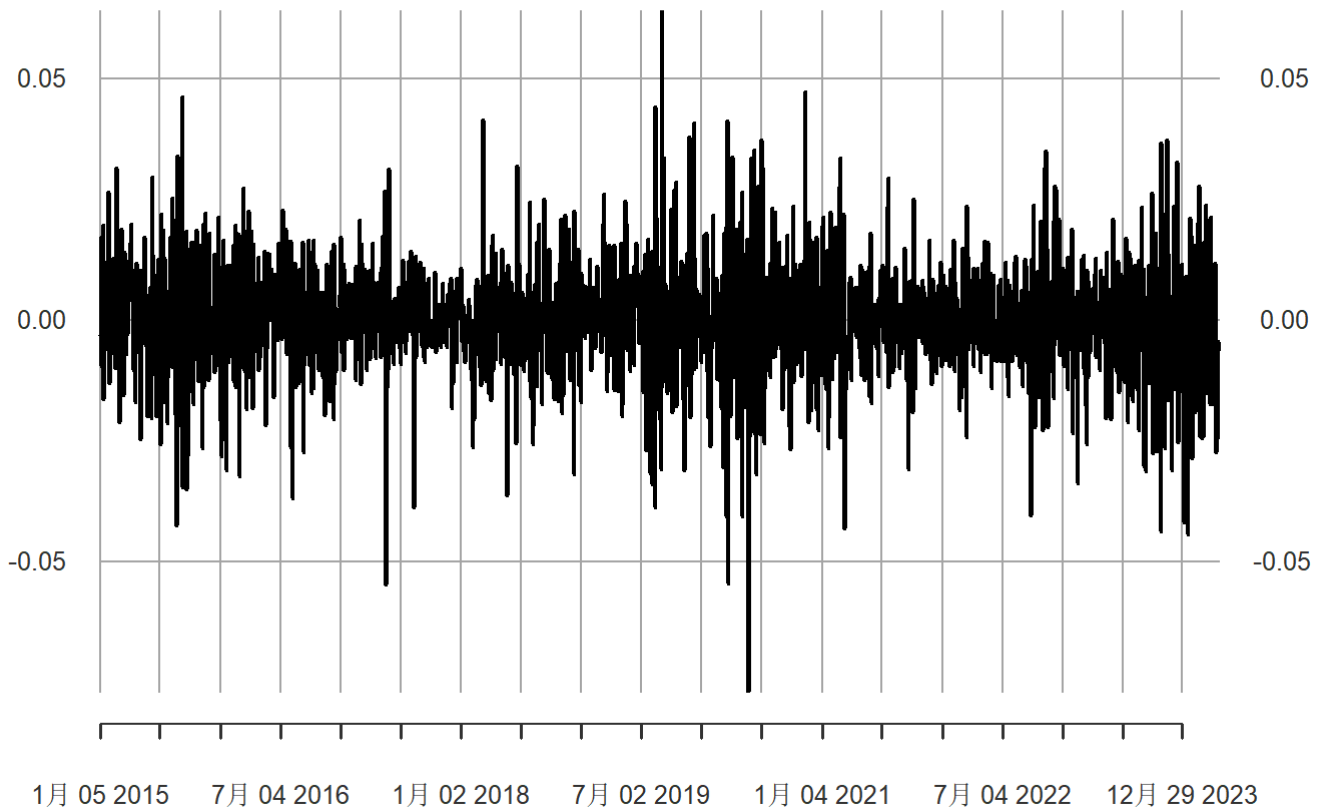


```
##### MTR
# 差分+平稳性检验
MTR_dr = diff(MTR) / lag(MTR)
MTR_dr = na.omit(MTR_dr)
plot(MTR_dr)
```



MTR\_dr

2015-01-05 / 2024-04-19



```
ndiffs(MTR_dr) # 差分一次
```

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

```
MTR_dr_1 = diff(MTR_dr)
MTR_dr_1 = na.omit(MTR_dr_1)
length(MTR_dr_1)
```

```
## [1] 2289
```

```
pp.test(MTR_dr_1) # < 0.05 则平稳
```

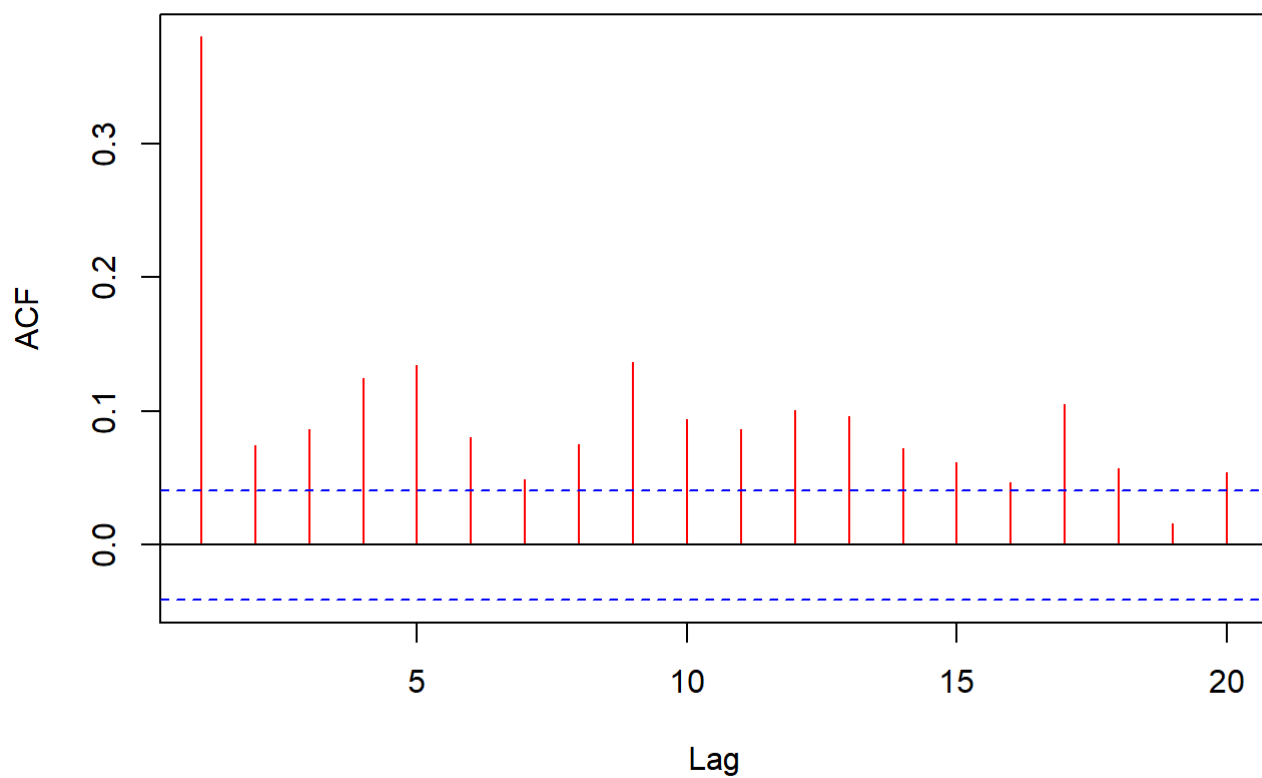
```
## Warning in pp.test(MTR_dr_1): p-value smaller than printed p-value
```

```
##
## Phillips-Perron Unit Root Test
##
## data: MTR_dr_1
## Dickey-Fuller Z(alpha) = -2805, Truncation lag parameter = 8, p-value =
## 0.01
## alternative hypothesis: stationary
```

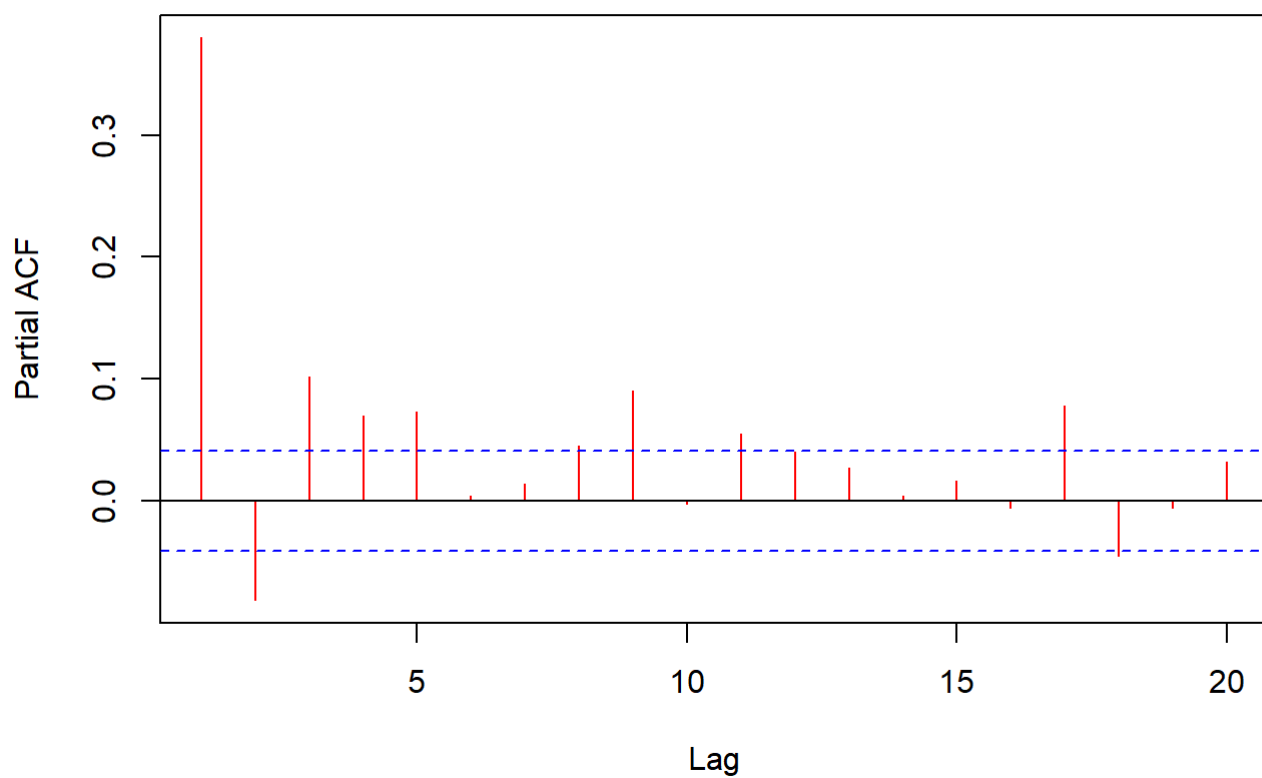
```
# 白噪声检验
for( i in c(2,5,9,11) ){
  print(Box.test(MTR_dr_1, lag=i, type="Ljung-Box"))
} # < 0.05 则非白噪声, 有意义
```

```
##
## Box-Ljung test
##
## data: MTR_dr_1
## X-squared = 623.07, df = 2, p-value < 2.2e-16
##
##
## Box-Ljung test
##
## data: MTR_dr_1
## X-squared = 630.35, df = 5, p-value < 2.2e-16
##
##
## Box-Ljung test
##
## data: MTR_dr_1
## X-squared = 653, df = 9, p-value < 2.2e-16
##
##
## Box-Ljung test
##
## data: MTR_dr_1
## X-squared = 658.89, df = 11, p-value < 2.2e-16
```

```
# ARCH效应检验
MTR_dr_1_at=MTR_dr_1-mean(MTR_dr_1)
acf(MTR_dr_1_at^2, 20, main="", col="red")
```



```
pacf(MTR_dr_1_at^2, 20, main="", col="red")
```



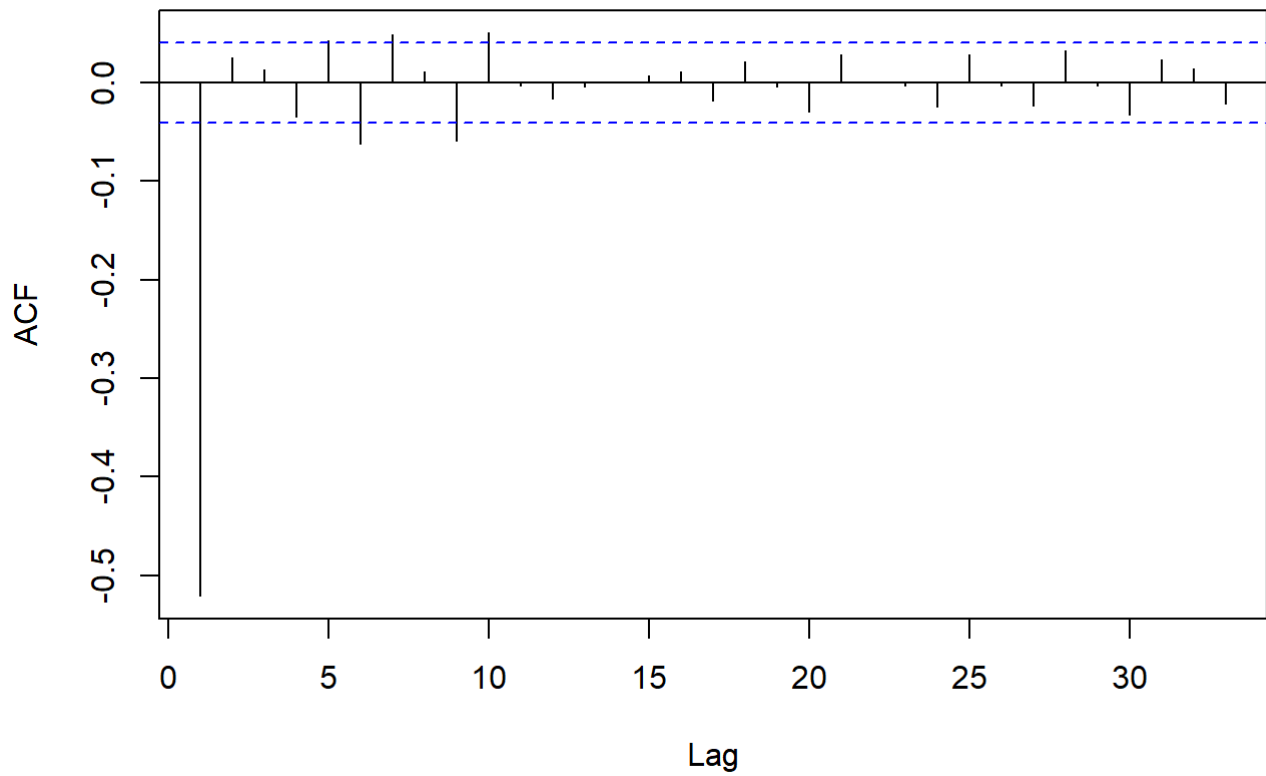
```
for( i in c(2,5,9,11) ){  
  print(Box.test(MTR_dr_1_at^2, lag=i, type="Ljung-Box"))  
} # 若无ARCH效应, 应>0.05
```

```
##  
## Box-Ljung test  
##  
## data: MTR_dr_1_at^2  
## X-squared = 343.2, df = 2, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: MTR_dr_1_at^2  
## X-squared = 437.28, df = 5, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: MTR_dr_1_at^2  
## X-squared = 513.92, df = 9, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: MTR_dr_1_at^2  
## X-squared = 551.47, df = 11, p-value < 2.2e-16
```

```
# 存在ARCH效应
```

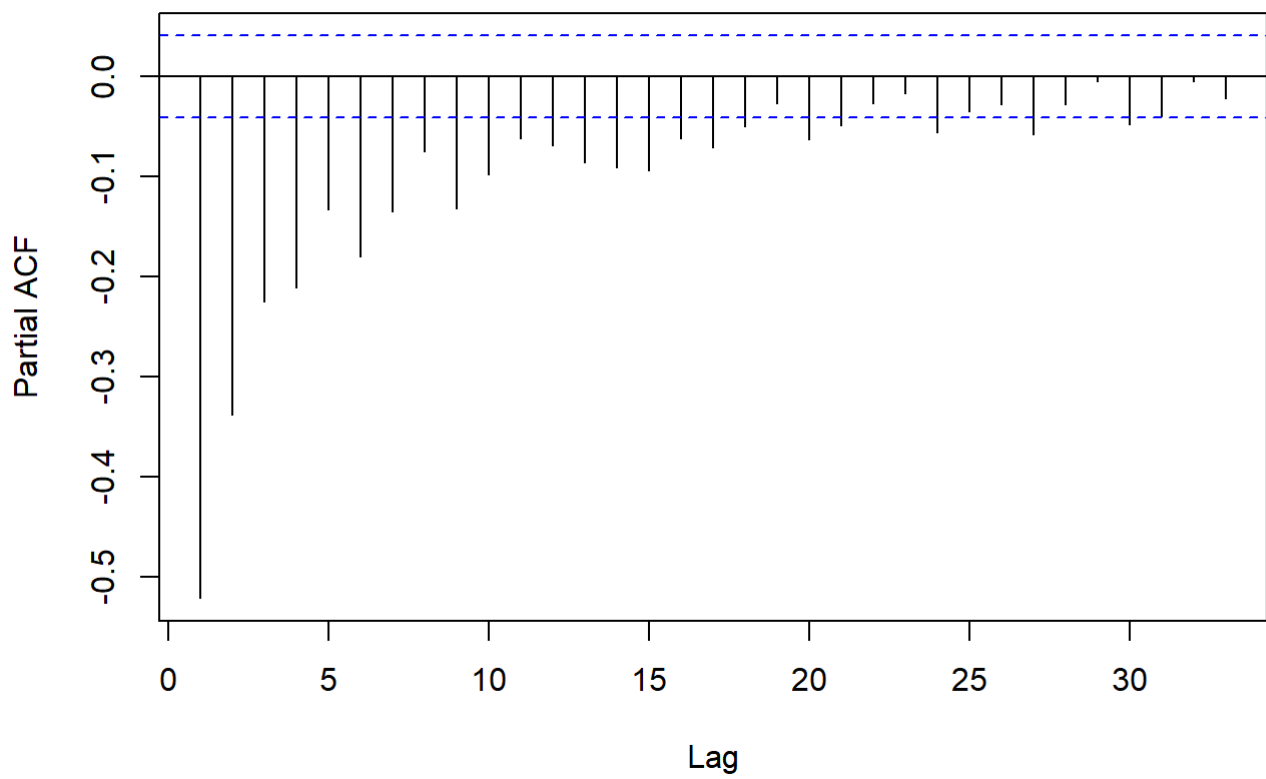
```
# ARMA模型识别  
acf(MTR_dr_1)
```

**Series MTR\_dr\_1**



```
pacf(MTR_dr_1)
```

**Series MTR\_dr\_1**



```
eacf(MTR_dr_1)
```

```
## AR/MA
##   0 1 2 3 4 5 6 7 8 9 10 11 12 13
## 0 x o o o x x x o x x o o o o
## 1 x x o o o o x o x x o o o o
## 2 x x x o o o o o o o o o o o
## 3 x x x x o o o o o o o o o o
## 4 x x x x x o o o o o o o o o
## 5 x x x x x x o o o o o o o o
## 6 x x x o x x x o o o o o o o
## 7 x x x x o x x o o o o o o o
```

```
Arima(MTR_dr_1, order = c(0,0,1), include.drift = T)$aic
```

```
## [1] -13903.34
```

```
Arima(MTR_dr_1, order = c(0,0,2), include.drift = T)$aic
```

```
## [1] -13903.24
```

```
Arima(MTR_dr_1, order = c(1,0,2), include.drift = T)$aic
```

```
## [1] -13899.42
```

```
# ARMA参数估计
# 使用forecast包里的Arima(), 不包含漂移项的影响
MTR_md = Arima(MTR_dr_1, order = c(0,0,1), include.drift = F)
```

```
# ARMA参数显著性检验
# t统计量
t = abs(MTR_md$coef)/sqrt(diag(MTR_md$var.coef))
# 自由度
df_t = length(MTR_dr_1)-length(MTR_md$coef)
# pt()
pt(t, df_t, lower.tail = F)
```

```
##           mal intercept
## 0.0000000 0.4826332
```

```
# p<0.05, 则显著
# intercept不显著
```

```
# # 残差检验
# library(stats)
# tsdiag(MTR_md)

# # ARCH效应验证
# library(aTSA)
# tent = arima(MTR_dr_1, order = c(0, 0, 1), method = 'ML')
# arch.test(tent, output = T) # 上半残差序列及平方序列的散点图, 下半PQ检验和LM检验的P值, p小拒绝
# 原假设, 具备异方差性, 考虑低阶GARCH
```

```
# ARMA-EGARCH 拟合
MTR_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),
                    mean.model=list(armaOrder=c(0,1), include.mean = TRUE),
                    distribution.model = "sstd")

MTR_md_2=ugarchfit(spec=MTR_spec, data=MTR_dr_1)
MTR_md_2  ### 去除不显著部分mu和alpha1
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error    t value Pr(>|t|)
## mu      -0.000001   0.000001    -1.7881  0.07376
## mal     -0.990270   0.000061 -16367.7129  0.00000
## omega   -0.201133   0.015935   -12.6224  0.00000
## alpha1  -0.014943   0.012170    -1.2278  0.21951
## beta1    0.977733   0.001752   558.1208  0.00000
## gamma1   0.172533   0.024911     6.9259  0.00000
## skew     0.983667   0.028853    34.0928  0.00000
## shape    6.209875   0.779937     7.9620  0.00000
##
## Robust Standard Errors:
##      Estimate  Std. Error    t value Pr(>|t|)
## mu      -0.000001   0.000001    -1.2506  0.21108
## mal     -0.990270   0.000066 -15047.3761  0.00000
## omega   -0.201133   0.005846   -34.4043  0.00000
## alpha1  -0.014943   0.013640    -1.0955  0.27329
## beta1    0.977733   0.000655  1492.2010  0.00000
## gamma1   0.172533   0.028003     6.1612  0.00000
## skew     0.983667   0.031354    31.3731  0.00000
## shape    6.209875   0.793756     7.8234  0.00000
##
## LogLikelihood : 7157.803
##
## Information Criteria
## -----
##
## Akaike      -6.2471
## Bayes       -6.2271
## Shibata     -6.2471
## Hannan-Quinn -6.2398
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##              statistic p-value
## Lag[1]              1.195 0.27426
## Lag[2*(p+q)+(p+q)-1][2] 2.741 0.05817
## Lag[4*(p+q)+(p+q)-1][5] 3.958 0.23224
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----

```



```

##                                statistic p-value
## Lag[1]                        0.5083  0.4759
## Lag[2*(p+q)+(p+q)-1][5]      1.8486  0.6546
## Lag[4*(p+q)+(p+q)-1][9]      2.5710  0.8271
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##           Statistic Shape Scale P-Value
## ARCH Lag[3]    0.7932 0.500 2.000  0.3731
## ARCH Lag[5]    1.1201 1.440 1.667  0.6976
## ARCH Lag[7]    1.4708 2.315 1.543  0.8272
##
## Nyblom stability test
## -----
## Joint Statistic:  1.8853
## Individual Statistics:
## mu      0.1564
## mal     0.6841
## omega   0.1345
## alpha1  0.2635
## beta1   0.1285
## gamma1  0.1105
## skew    0.2310
## shape   0.2969
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.89 2.11 2.59
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##           t-value   prob sig
## Sign Bias      0.8268 0.4084
## Negative Sign Bias 0.6976 0.4855
## Positive Sign Bias 0.2023 0.8397
## Joint Effect    0.8113 0.8468
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20     14.01     0.78336
## 2    30     29.31     0.44905
## 3    40     38.99     0.47051
## 4    50     74.46     0.01099
##
##
## Elapsed time : 0.8791392

```

```
MTR_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),  
                    mean.model=list(armaOrder=c(0,1), include.mean = FALSE),  
                    distribution.model = "sstd", fixed.pars = c(mu = 0, alpha1 = 0))
```

```
MTR_md_2=ugarchfit(spec=MTR_spec, data=MTR_dr_1)
```

```
MTR_md_2
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error   t value Pr(>|t|)
## mal      -0.99060    0.000248 -3993.7031    0
## omega    -0.21898    0.019413  -11.2805    0
## alpha1    0.00000         NA         NA     NA
## beta1     0.97578    0.002157  452.3470    0
## gamma1    0.18287    0.027698   6.6023    0
## skew      0.98953    0.031938  30.9828    0
## shape     6.22146    0.846535   7.3493    0
##
## Robust Standard Errors:
##      Estimate  Std. Error   t value Pr(>|t|)
## mal      -0.99060    0.000223 -4446.1496    0
## omega    -0.21898    0.008124  -26.9560    0
## alpha1    0.00000         NA         NA     NA
## beta1     0.97578    0.001019  957.3107    0
## gamma1    0.18287    0.032709   5.5908    0
## skew      0.98953    0.038863  25.4621    0
## shape     6.22146    0.925712   6.7207    0
##
## LogLikelihood : 7157.274
##
## Information Criteria
## -----
##
## Akaike          -6.2484
## Bayes           -6.2333
## Shibata         -6.2484
## Hannan-Quinn   -6.2429
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##                                statistic p-value
## Lag[1]                                1.017 0.31320
## Lag[2*(p+q)+(p+q)-1][2]          2.653 0.06865
## Lag[4*(p+q)+(p+q)-1][5]          3.942 0.23487
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----
##                                statistic p-value
## Lag[1]                                0.524 0.4691

```

```

## Lag[2*(p+q)+(p+q)-1][5]      1.509  0.7377
## Lag[4*(p+q)+(p+q)-1][9]      2.217  0.8776
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##           Statistic Shape Scale P-Value
## ARCH Lag[3]      0.6884 0.500 2.000  0.4067
## ARCH Lag[5]      0.9152 1.440 1.667  0.7583
## ARCH Lag[7]      1.3276 2.315 1.543  0.8552
##
## Nyblom stability test
## -----
## Joint Statistic:  1.3959
## Individual Statistics:
## mal      0.5523
## omega    0.1519
## betal    0.1459
## gamma1   0.1149
## skew     0.2512
## shape    0.2866
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.49 1.68 2.12
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##           t-value   prob sig
## Sign Bias      0.8206 0.4119
## Negative Sign Bias 0.8347 0.4040
## Positive Sign Bias 0.3892 0.6972
## Joint Effect    0.9262 0.8191
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20      10.02    0.952416
## 2    30      22.86    0.782862
## 3    40      34.34    0.682316
## 4    50      78.39    0.004834
##
##
## Elapsed time : 0.5610321

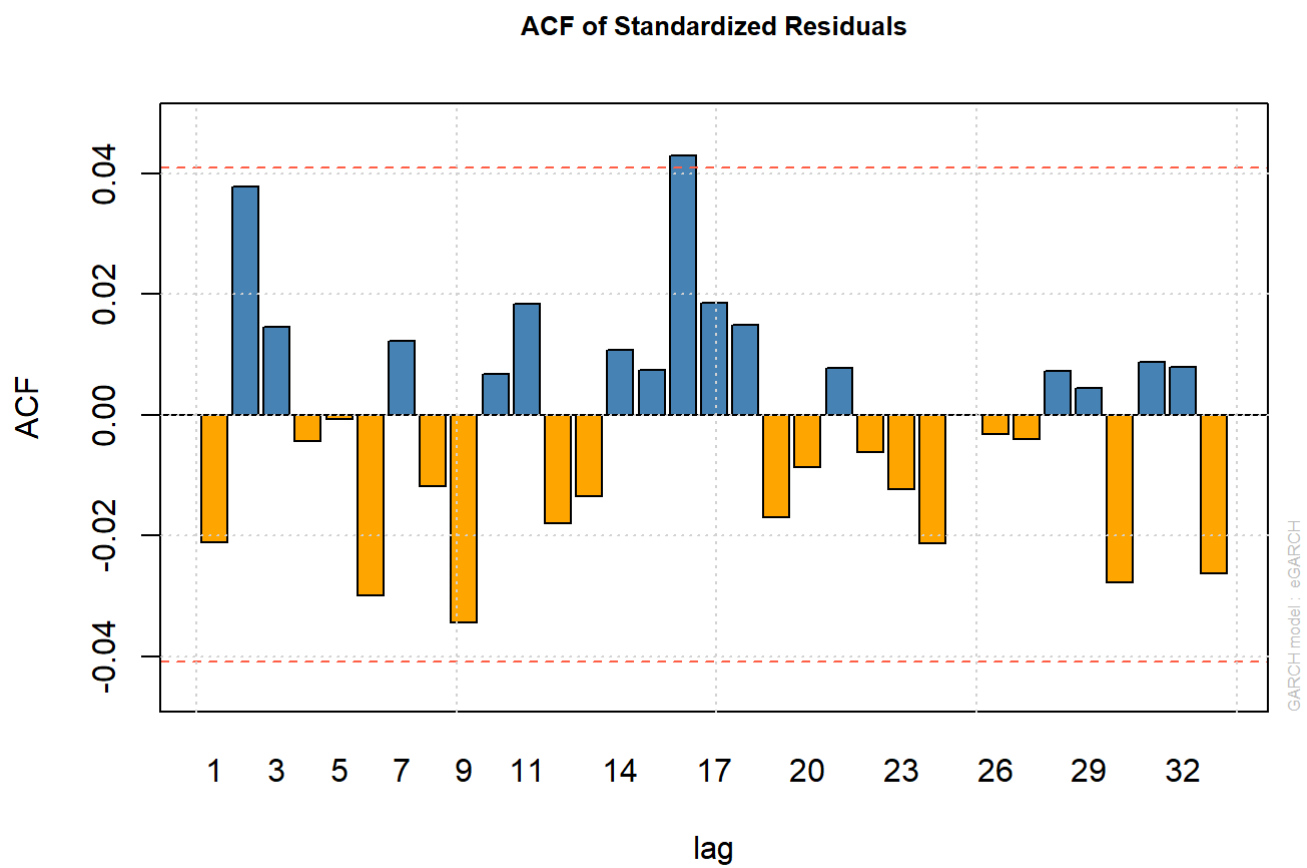
```

```

# model: ARMA(0,1)-EGARCH(1,1)
# r_t =  $\mu_t + a_t$ 
#  $\mu_t = \mu_0 - \theta_1 * a_{t-1}$ 
#  $a_t = \sigma_t * \varepsilon_t$ 
#  $\ln[(\sigma_t)^2] = \alpha_0 + [\alpha_1 * (\varepsilon_{t-1}) + \gamma_1 (|\varepsilon_{t-1}| - E|\varepsilon_{t-1}|)] + \beta_1 \ln[(\sigma_{t-1})^2]$ 
# where  $\mu_0 = 0$ ,  $\theta_1 = -0.99060$ ,  $\alpha_0 = -0.21897$ ,  $\alpha_1 = 0$ ,  $\beta_1 = 0.97578$ ,  $\gamma_1 = 0.18286$ 
# skew > 0, 分布右偏; shape > 3, 尖峰
#  $\alpha_1 = 0$ , 不存在杠杆效应

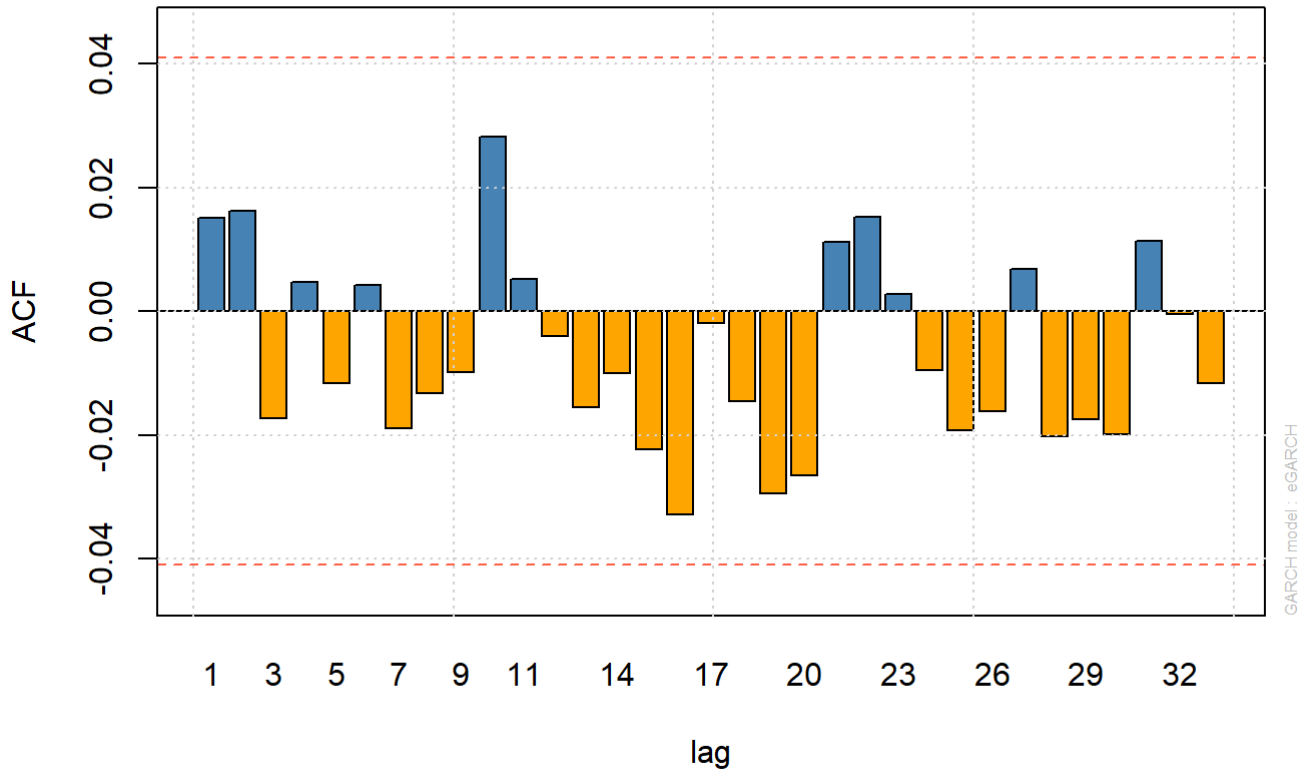
```

```
plot(MTR_md_2, which = 10)
```



```
plot(MTR_md_2, which = 11)
```

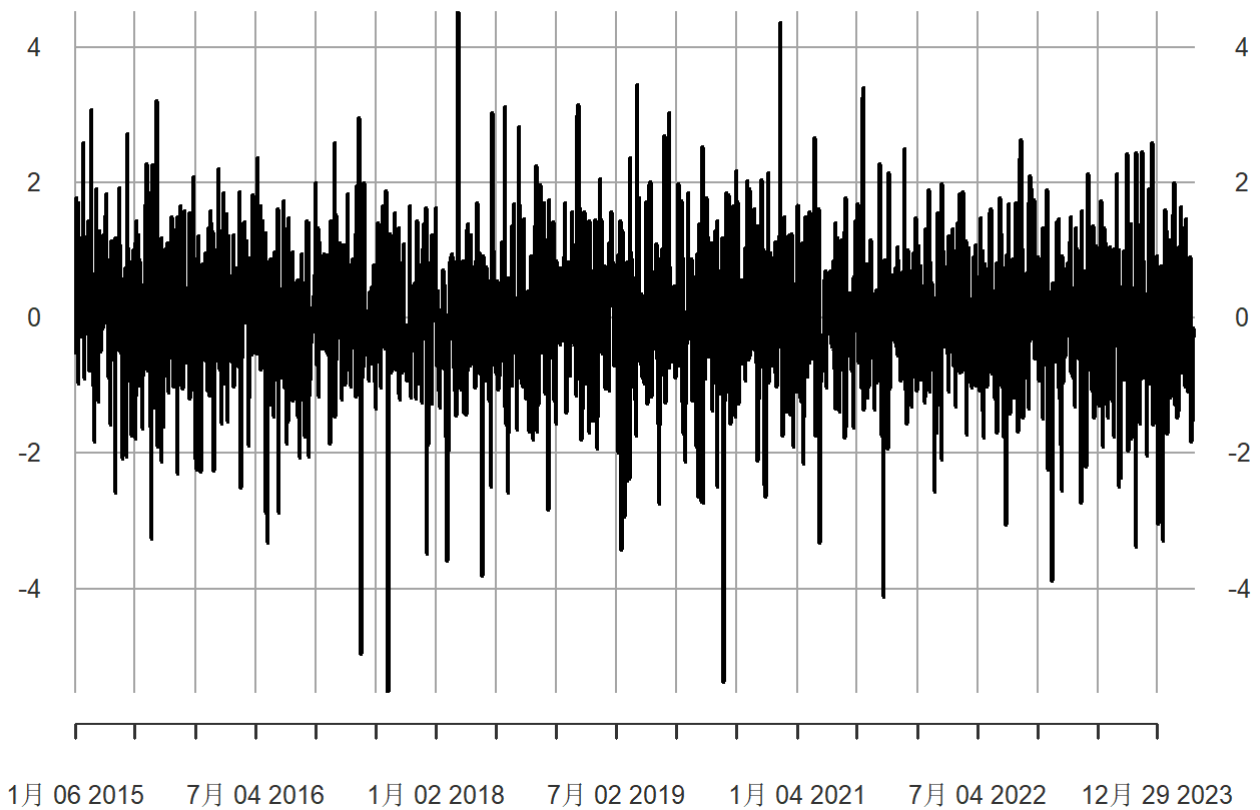
ACF of Squared Standardized Residuals



```
MTR_stresi=residuals(MTR_md_2,standardize=T)
plot(MTR_stresi,type="l")
```

MTR\_stresi

2015-01-06 / 2024-04-19



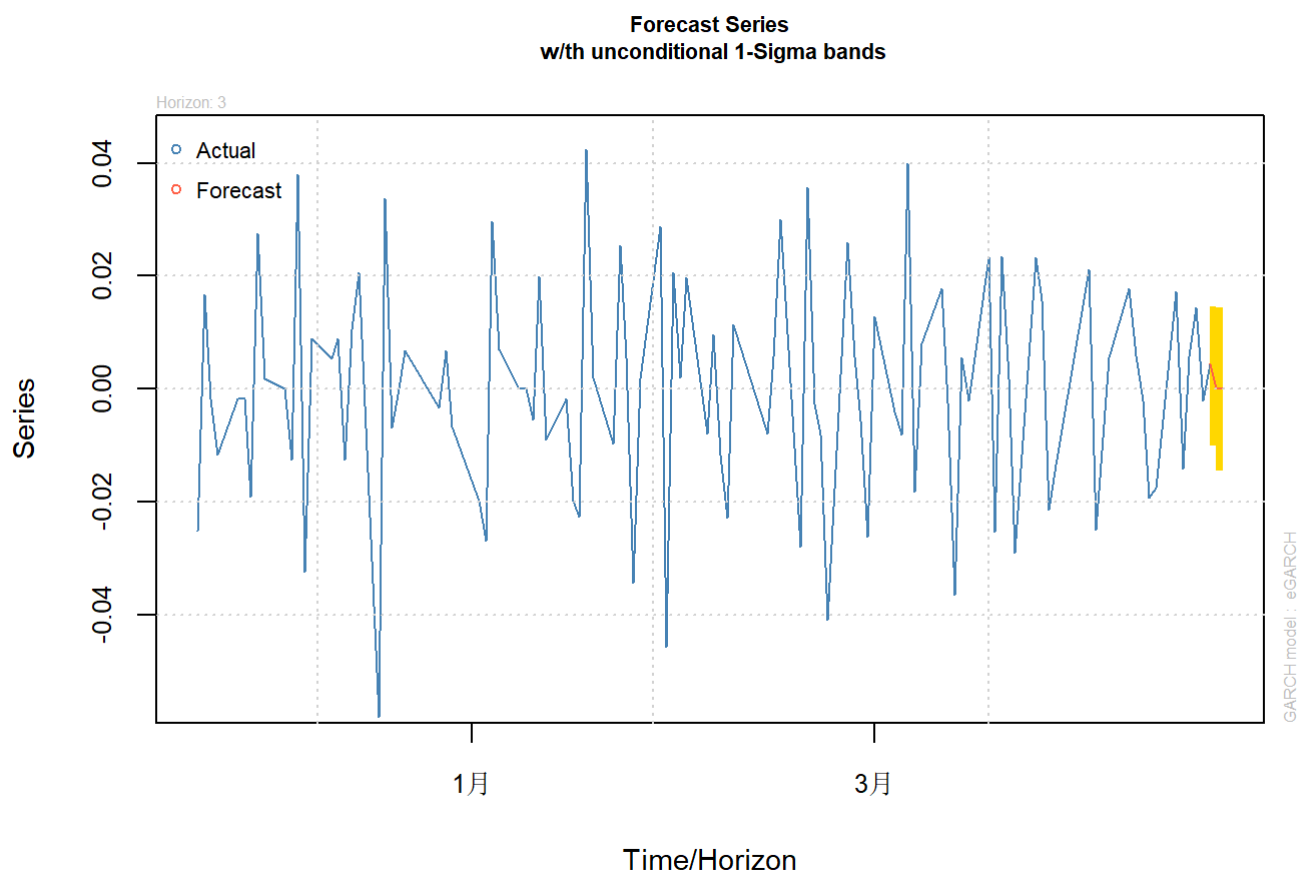
```
Box.test(MTR_stresi, 2288, type="Ljung-Box", fitdf = 4) # p-value > 0.05, white noise
```

```
##  
## Box-Ljung test  
##  
## data: MTR_stresi  
## X-squared = 2358.4, df = 2284, p-value = 0.1358
```

```
Box.test(MTR_stresi^2, 2288, type="Ljung-Box", fitdf = 4) # p-value > 0.05, remains no ARCH effect
```

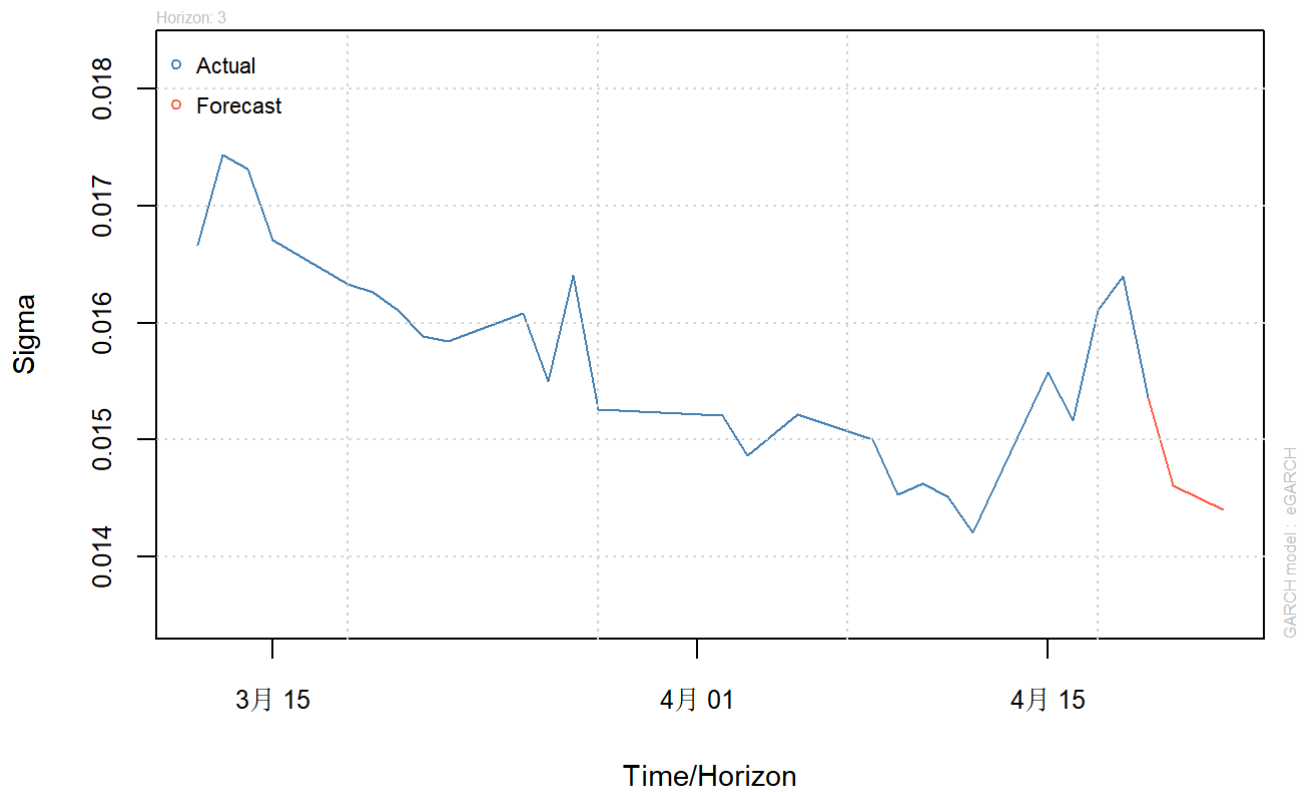
```
##  
## Box-Ljung test  
##  
## data: MTR_stresi^2  
## X-squared = 1824.5, df = 2284, p-value = 1
```

```
# 模型预测  
forecast = ugarchforecast(MTR_md_2, n.ahead = 3, data=MTR_dr_1)  
plot(forecast, which = 1)
```



```
plot(forecast, which = 3)
```

# Forecast Unconditional Sigma (n.roll = 0)

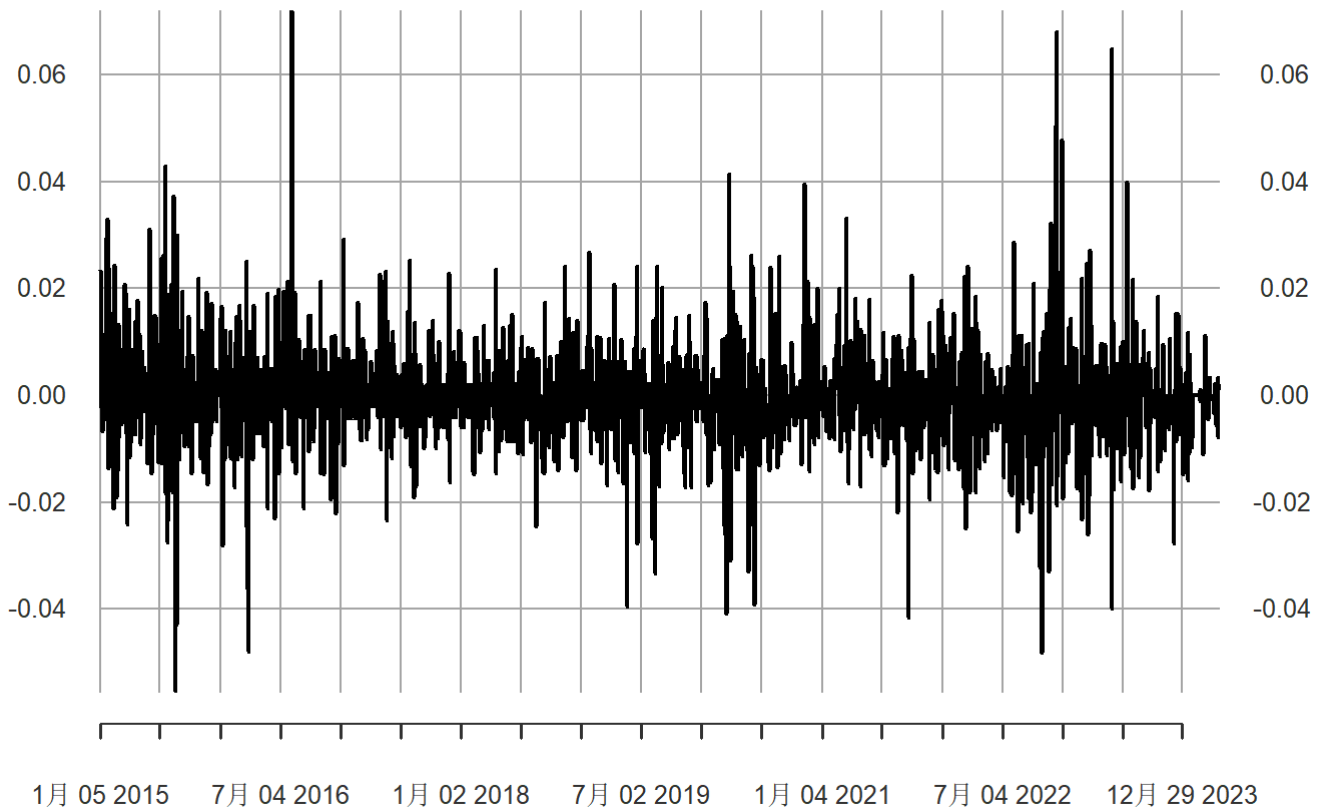


```
##### TI
# 差分+平稳性检验
TI_dr = diff(TI) / lag(TI)
TI_dr = na.omit(TI_dr)
plot(TI_dr)
```



TI\_dr

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```
ndiffs(TI_dr) # 差分一次
```

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

```
TI_dr_1 = diff(TI_dr)
TI_dr_1 = na.omit(TI_dr_1)
length(TI_dr_1)
```

```
## [1] 2289
```

```
pp.test(TI_dr_1) # < 0.05 则平稳
```

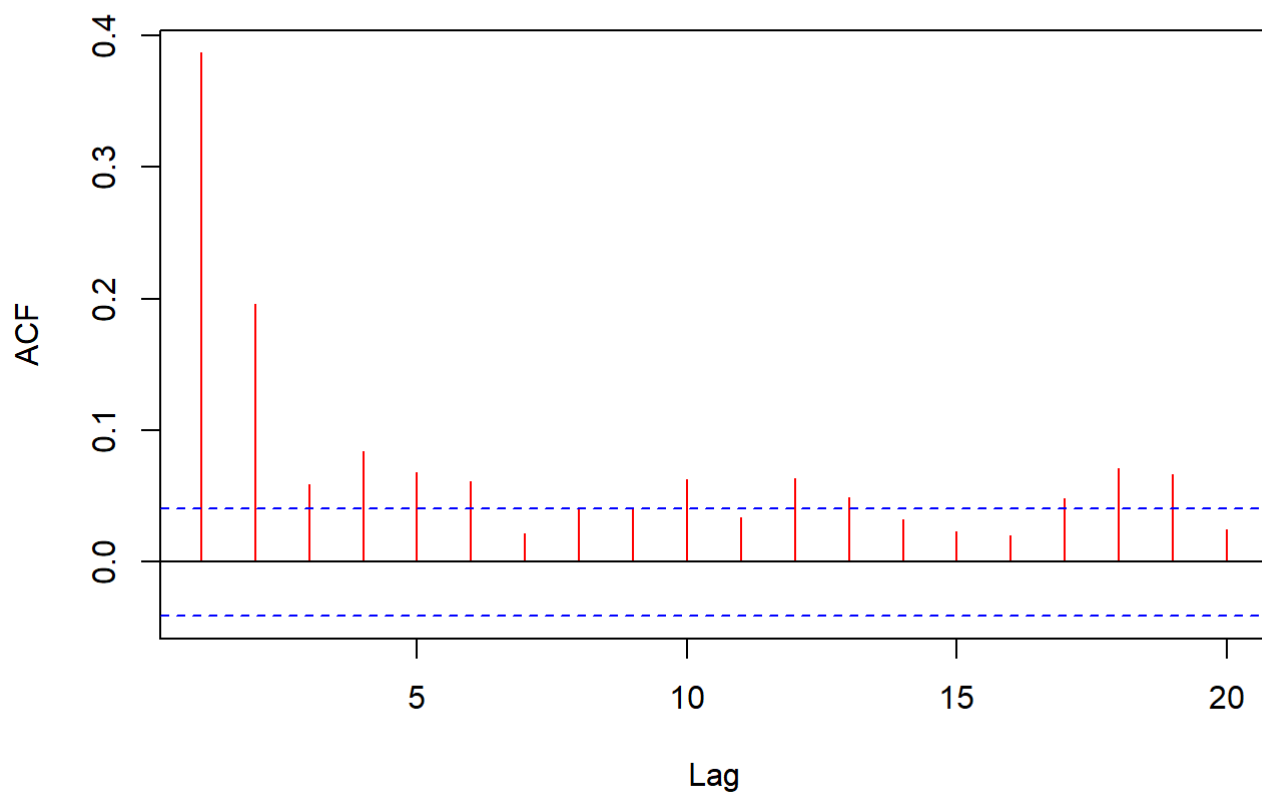
```
## Warning in pp.test(TI_dr_1): p-value smaller than printed p-value
```

```
##
## Phillips-Perron Unit Root Test
##
## data: TI_dr_1
## Dickey-Fuller Z(alpha) = -2728, Truncation lag parameter = 8, p-value =
## 0.01
## alternative hypothesis: stationary
```

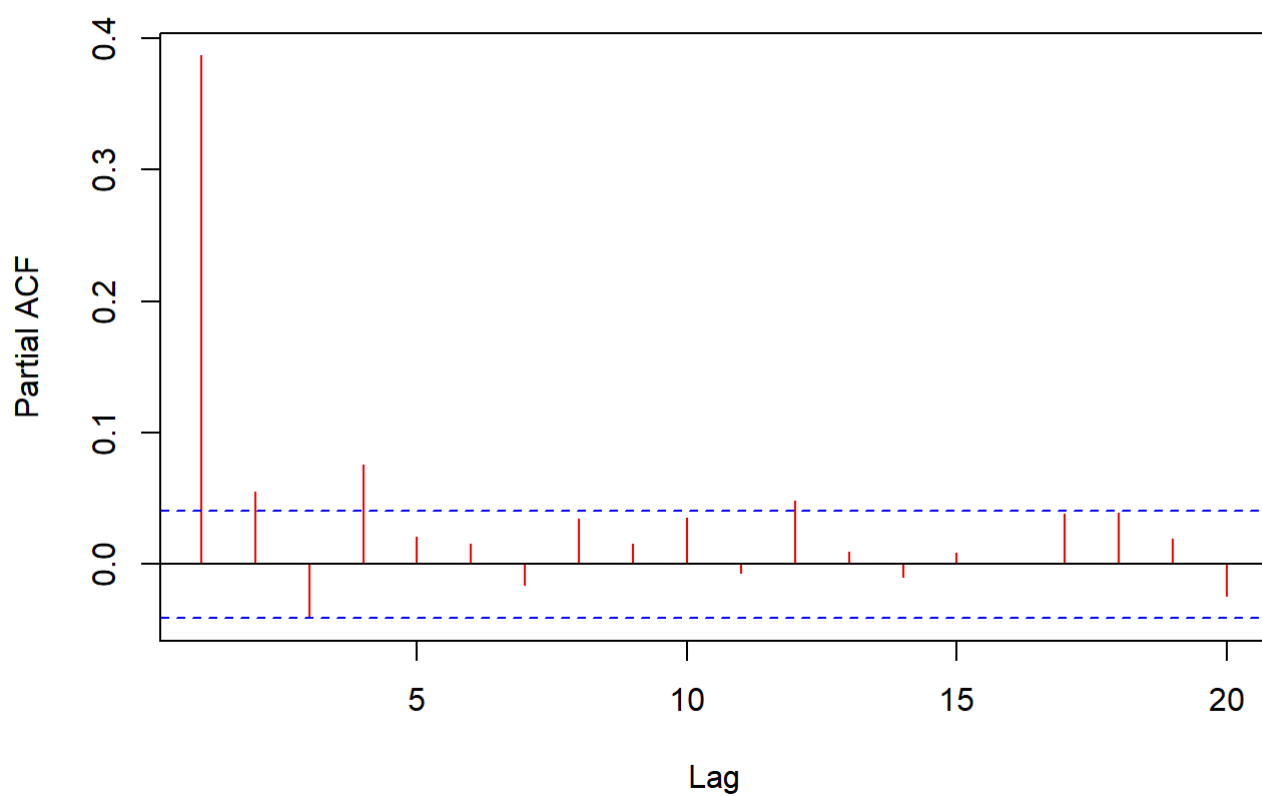
```
# 白噪声检验
for( i in c(2,5,9,11) ){
  print(Box.test(TI_dr_1, lag=i, type="Ljung-Box"))
} # < 0.05 则非白噪声, 有意义
```

```
##
## Box-Ljung test
##
## data: TI_dr_1
## X-squared = 575.77, df = 2, p-value < 2.2e-16
##
## Box-Ljung test
##
## data: TI_dr_1
## X-squared = 583.66, df = 5, p-value < 2.2e-16
##
## Box-Ljung test
##
## data: TI_dr_1
## X-squared = 585.91, df = 9, p-value < 2.2e-16
##
## Box-Ljung test
##
## data: TI_dr_1
## X-squared = 587.87, df = 11, p-value < 2.2e-16
```

```
# ARCH效应检验
TI_dr_1_at=TI_dr_1-mean(TI_dr_1)
acf(TI_dr_1_at^2, 20, main="", col="red")
```



```
pacf(TI_dr_l_at^2, 20, main="", col="red")
```



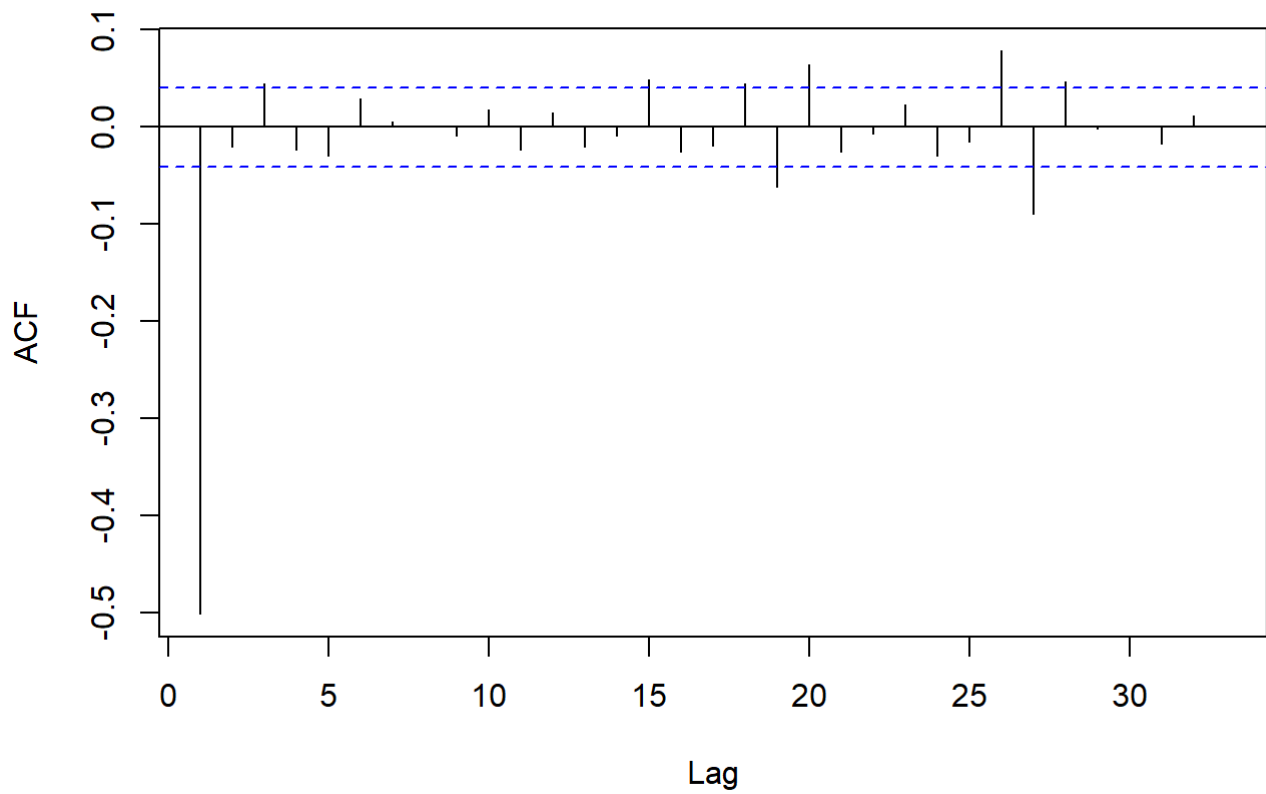
```
for( i in c(2,5,9,11) ){  
  print(Box.test(TI_dr_1_at^2, lag=i, type="Ljung-Box"))  
} # 若无ARCH效应, 应>0.05
```

```
##  
## Box-Ljung test  
##  
## data: TI_dr_1_at^2  
## X-squared = 430.78, df = 2, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: TI_dr_1_at^2  
## X-squared = 465.45, df = 5, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: TI_dr_1_at^2  
## X-squared = 482.73, df = 9, p-value < 2.2e-16  
##  
##  
## Box-Ljung test  
##  
## data: TI_dr_1_at^2  
## X-squared = 494.36, df = 11, p-value < 2.2e-16
```

```
# 存在ARCH效应
```

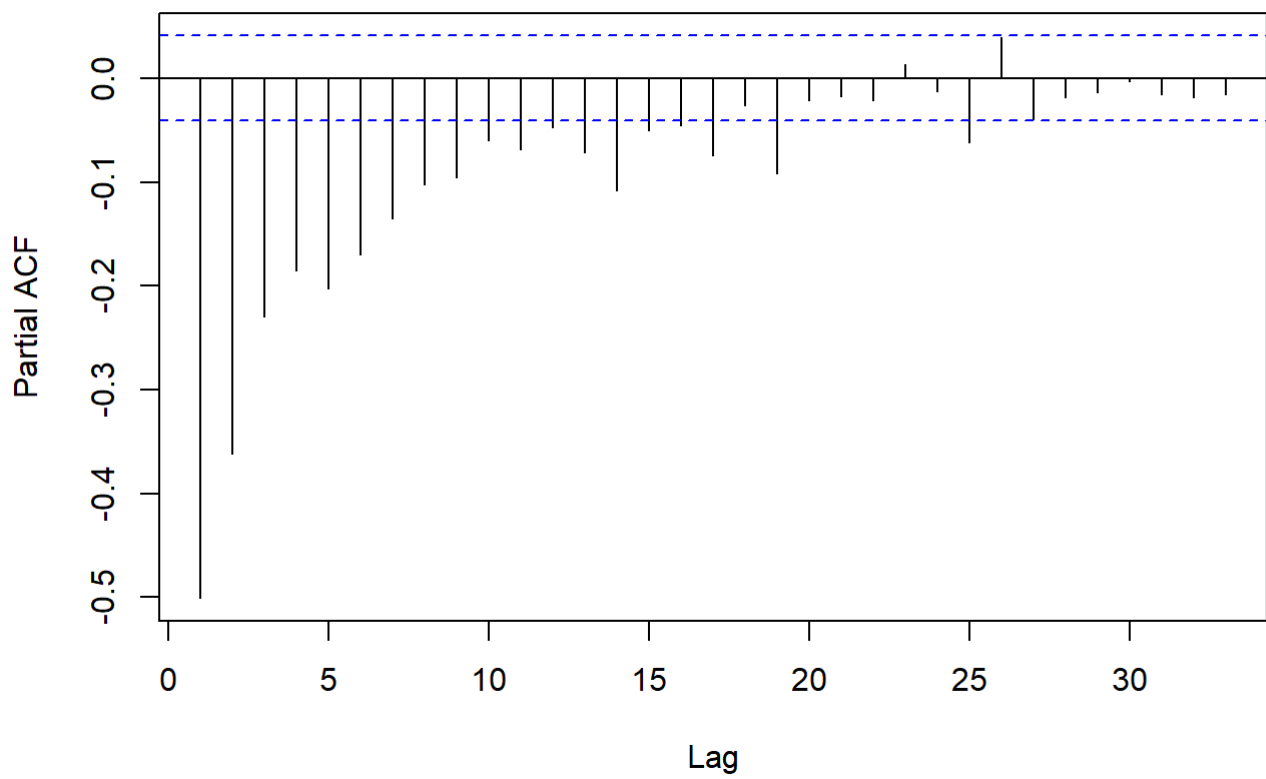
```
# ARMA模型识别  
acf(TI_dr_1)
```

Series TI\_dr\_1



```
pacf(TI_dr_1)
```

Series TI\_dr\_1



```
eacf(TI_dr_1)
```

```
## AR/MA
##   0 1 2 3 4 5 6 7 8 9 10 11 12 13
## 0 x o x o o o o o o o o o o o
## 1 x x x o x o o o o o o o o o
## 2 x x x o o o o o o o o o o o
## 3 x x x x o o o o o o o o o o
## 4 x x x x x o o o o o o o o o
## 5 x x o x x x o o o o o o o o
## 6 x x o x x x x o o o o o o o
## 7 x x x x o x o o o o o o o o
```

```
Arima(TI_dr_1, order = c(0,0,1), include.drift = T)$aic
```

```
## [1] -14794.99
```

```
Arima(TI_dr_1, order = c(0,0,3), include.drift = T)$aic
```

```
## [1] -14791.79
```

```
Arima(TI_dr_1, order = c(1,0,3), include.drift = T)$aic
```

```
## [1] -14789.6
```

```
Arima(TI_dr_1, order = c(2,0,3), include.drift = T)$aic
```

```
## [1] -14791.68
```

```
# ARMA参数估计
# 使用forecast包里的Arima(), 不包含漂移项的影响
TI_md = Arima(TI_dr_1, order = c(0,0,1), include.drift = F)

# ARMA参数显著性检验
# t统计量
t = abs(TI_md$coef)/sqrt(diag(TI_md$var.coef))
# 自由度
df_t = length(TI_dr_1)-length(TI_md$coef)
# pt()
pt(t, df_t, lower.tail = F)
```

```
##           mal intercept
## 0.0000000 0.4858268
```

```
# p<0.05, 则显著
# intercept不显著
```

```
# # 残差检验
# library(stats)
# tsdiag(TI_md)

# # ARCH效应验证
# library(aTSA)
# tent = arima(TI_dr_1, order = c(0, 0, 1), method = 'ML')
# arch.test(tent, output = T) # 上半残差序列及平方序列的散点图, 下半PQ检验和LM检验的P值, p小拒绝
# 原假设, 具备异方差性, 考虑低阶GARCH
```

```
# ARMA-EGARCH 拟合
TI_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),
                    mean.model=list(armaOrder=c(0, 1), include.mean = TRUE),
                    distribution.model = "sstd")

TI_md_2=ugarchfit(spec=TI_spec, data=TI_dr_1)
TI_md_2  ### 去除不显著部分mu和alpha1
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error    t value Pr(>|t|)
## mu      -0.000006   0.000005   -1.12490 0.260632
## mal     -0.964202   0.000693 -1390.98706 0.000000
## omega   -0.997536   0.209110   -4.77039 0.000002
## alpha1  -0.001384   0.012632   -0.10959 0.912731
## beta1    0.893062   0.022296   40.05559 0.000000
## gamma1   0.448576   0.048114    9.32313 0.000000
## skew     1.053126   0.026729   39.40033 0.000000
## shape    3.372115   0.267219   12.61930 0.000000
##
## Robust Standard Errors:
##      Estimate  Std. Error    t value Pr(>|t|)
## mu      -0.000006   0.000005   -1.09431 0.273820
## mal     -0.964202   0.000902 -1068.42391 0.000000
## omega   -0.997536   0.249885   -3.99198 0.000066
## alpha1  -0.001384   0.010107   -0.13698 0.891050
## beta1    0.893062   0.026706   33.44003 0.000000
## gamma1   0.448576   0.043826   10.23536 0.000000
## skew     1.053126   0.025862   40.72157 0.000000
## shape    3.372115   0.272255   12.38587 0.000000
##
## LogLikelihood : 7767.792
##
## Information Criteria
## -----
##
## Akaike      -6.7801
## Bayes       -6.7600
## Shibata     -6.7801
## Hannan-Quinn -6.7728
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##              statistic p-value
## Lag[1]              0.6532 0.4190
## Lag[2*(p+q)+(p+q)-1][2] 0.7343 0.8827
## Lag[4*(p+q)+(p+q)-1][5] 4.3750 0.1718
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----

```



```

##                                statistic p-value
## Lag[1]                        0.007698  0.9301
## Lag[2*(p+q)+(p+q)-1][5]      2.029725  0.6114
## Lag[4*(p+q)+(p+q)-1][9]      2.836473  0.7856
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##              Statistic Shape Scale P-Value
## ARCH Lag[3]      1.169 0.500 2.000  0.2796
## ARCH Lag[5]      1.430 1.440 1.667  0.6110
## ARCH Lag[7]      1.696 2.315 1.543  0.7814
##
## Nyblom stability test
## -----
## Joint Statistic:  4.1324
## Individual Statistics:
## mu      0.2357
## mal     2.0255
## omega   0.2802
## alphas  0.4862
## betas   0.2676
## gammas  0.1473
## skew    0.4087
## shape   0.7093
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.89 2.11 2.59
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##              t-value   prob sig
## Sign Bias      1.4922 0.1358
## Negative Sign Bias 0.5192 0.6037
## Positive Sign Bias 0.8154 0.4149
## Joint Effect    4.4047 0.2209
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20      30.87   0.041730
## 2    30      43.10   0.044598
## 3    40      63.70   0.007528
## 4    50      73.23   0.014028
##
##
## Elapsed time : 0.5908

```

```
TI_spec=ugarchspec(variance.model=list(model="eGARCH", garchOrder = c(1, 1)),  
                    mean.model=list(armaOrder=c(0,1), include.mean = FALSE),  
                    distribution.model = "sstd", fixed.pars = c(mu = 0, alpha1 = 0))
```

```
TI_md_2=ugarchfit(spec=TI_spec, data=TI_dr_1)
```

```
TI_md_2
```

```

##
## *-----*
## *          GARCH Model Fit          *
## *-----*
##
## Conditional Variance Dynamics
## -----
## GARCH Model   : eGARCH(1,1)
## Mean Model    : ARFIMA(0,0,1)
## Distribution   : sstd
##
## Optimal Parameters
## -----
##      Estimate  Std. Error   t value Pr(>|t|)
## mal      -0.96347    0.001387 -694.8447   0e+00
## omega    -0.98667    0.205542  -4.8003    2e-06
## alpha1    0.00000         NA         NA         NA
## beta1     0.89402    0.021937  40.7534    0e+00
## gamma1    0.44815    0.049798   8.9995    0e+00
## skew      1.06854    0.023396  45.6718    0e+00
## shape     3.35991    0.272332  12.3376    0e+00
##
## Robust Standard Errors:
##      Estimate  Std. Error   t value Pr(>|t|)
## mal      -0.96347    0.000591 -1631.3625  0.0e+00
## omega    -0.98667    0.235125  -4.1964    2.7e-05
## alpha1    0.00000         NA         NA         NA
## beta1     0.89402    0.025266  35.3837    0.0e+00
## gamma1    0.44815    0.052128   8.5971    0.0e+00
## skew      1.06854    0.021659  49.3357    0.0e+00
## shape     3.35991    0.265703  12.6454    0.0e+00
##
## LogLikelihood : 7767.214
##
## Information Criteria
## -----
##
## Akaike          -6.7813
## Bayes           -6.7663
## Shibata         -6.7813
## Hannan-Quinn   -6.7758
##
## Weighted Ljung-Box Test on Standardized Residuals
## -----
##                      statistic p-value
## Lag[1]                0.7270  0.3939
## Lag[2*(p+q)+(p+q)-1][2] 0.8213  0.8405
## Lag[4*(p+q)+(p+q)-1][5] 4.4138  0.1669
## d.o.f=1
## H0 : No serial correlation
##
## Weighted Ljung-Box Test on Standardized Squared Residuals
## -----
##                      statistic p-value
## Lag[1]                0.006981  0.9334

```

```

## Lag[2*(p+q)+(p+q)-1][5]  2.078579  0.6000
## Lag[4*(p+q)+(p+q)-1][9]  2.896968  0.7759
## d.o.f=2
##
## Weighted ARCH LM Tests
## -----
##           Statistic Shape Scale P-Value
## ARCH Lag[3]      1.206 0.500 2.000  0.2721
## ARCH Lag[5]      1.460 1.440 1.667  0.6029
## ARCH Lag[7]      1.736 2.315 1.543  0.7730
##
## Nyblom stability test
## -----
## Joint Statistic:   3.5893
## Individual Statistics:
## mal      2.0635
## omega    0.2832
## betal    0.2708
## gammal   0.1526
## skew     0.3860
## shape    0.7284
##
## Asymptotic Critical Values (10% 5% 1%)
## Joint Statistic:      1.49 1.68 2.12
## Individual Statistic:  0.35 0.47 0.75
##
## Sign Bias Test
## -----
##           t-value   prob sig
## Sign Bias      1.5703 0.1165
## Negative Sign Bias 0.5338 0.5935
## Positive Sign Bias 0.8355 0.4035
## Joint Effect    4.7962 0.1873
##
##
## Adjusted Pearson Goodness-of-Fit Test:
## -----
##   group statistic p-value(g-1)
## 1    20      30.34      0.04757
## 2    30      37.09      0.14383
## 3    40      57.12      0.03054
## 4    50      66.24      0.05083
##
##
## Elapsed time : 0.8441291

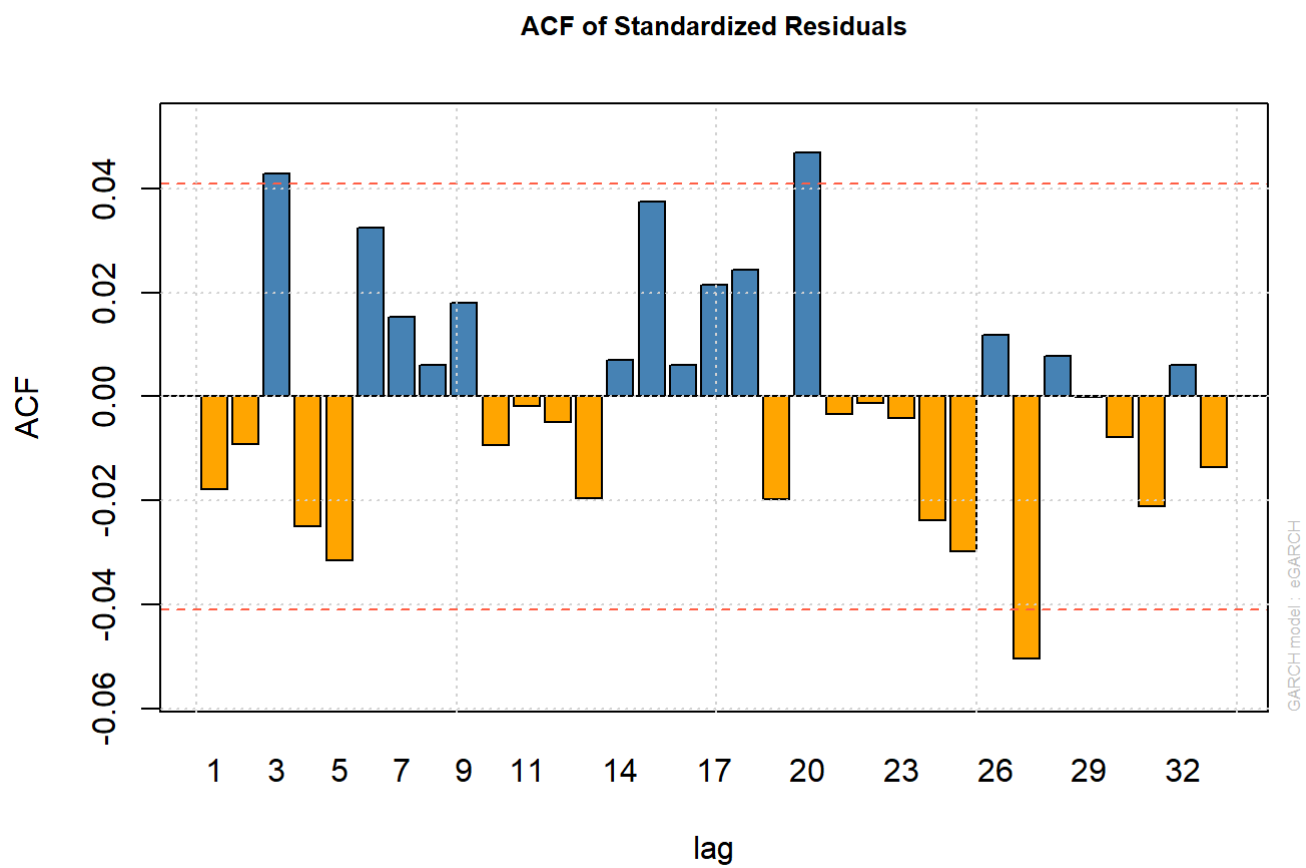
```

```

# model: ARMA(0,1)-EGARCH(1,1)
# r_t =  $\mu_t + a_t$ 
#  $\mu_t = \mu_0 - \theta_1 * a_{t-1}$ 
#  $a_t = \sigma_t * \varepsilon_t$ 
#  $\ln[(\sigma_t)^2] = \alpha_0 + [\alpha_1 * (\varepsilon_{t-1}) + \gamma_1 (|\varepsilon_{t-1}| - E|\varepsilon_{t-1}|)] + \beta_1 * \ln[(\sigma_{t-1})^2]$ 
# where  $\mu_0 = 0$ ,  $\theta_1 = -0.96347$ ,  $\alpha_0 = -0.98647$ ,  $\alpha_1 = 0$ ,  $\beta_1 = 0.89404$ ,  $\gamma_1 = 0.44817$ 
# skew > 0, 分布右偏; shape > 3, 尖峰
#  $\alpha_1 = 0$ , 不存在杠杆效应

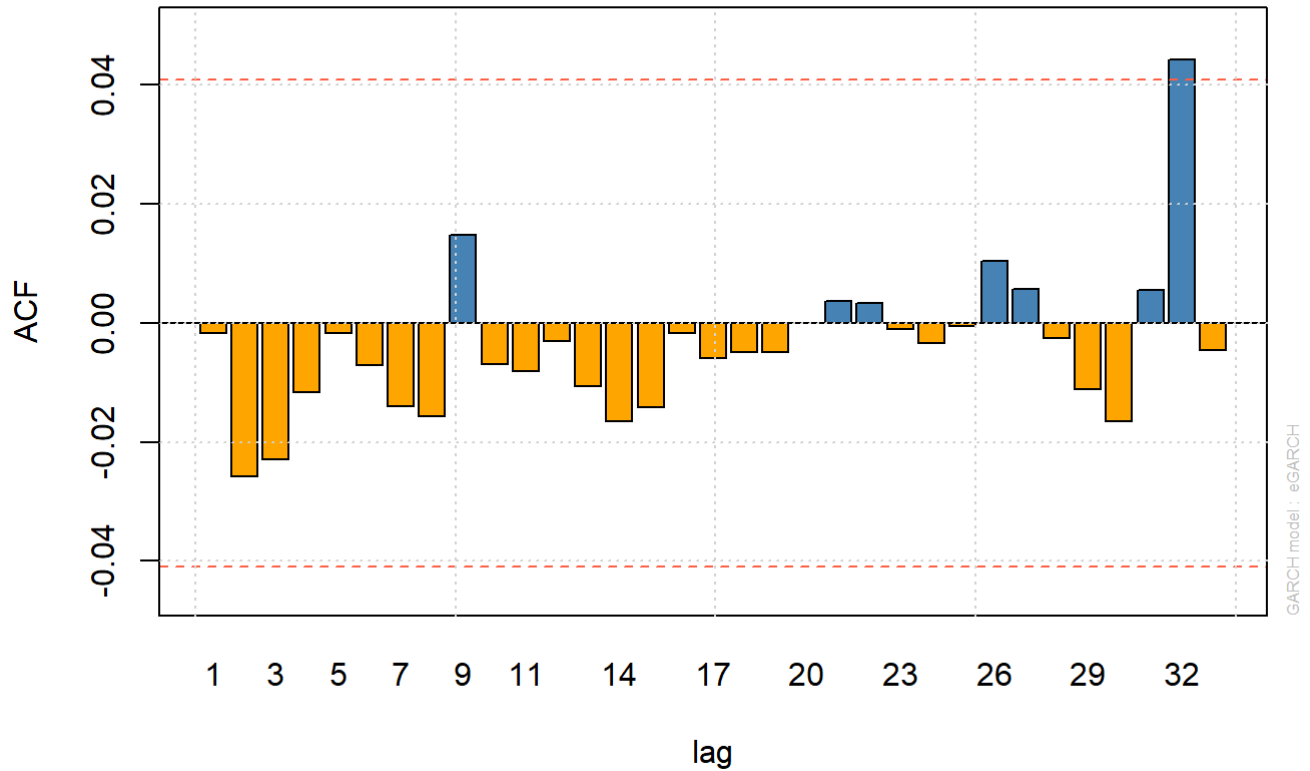
```

```
plot(TI_md_2, which = 10)
```



```
plot(TI_md_2, which = 11)
```

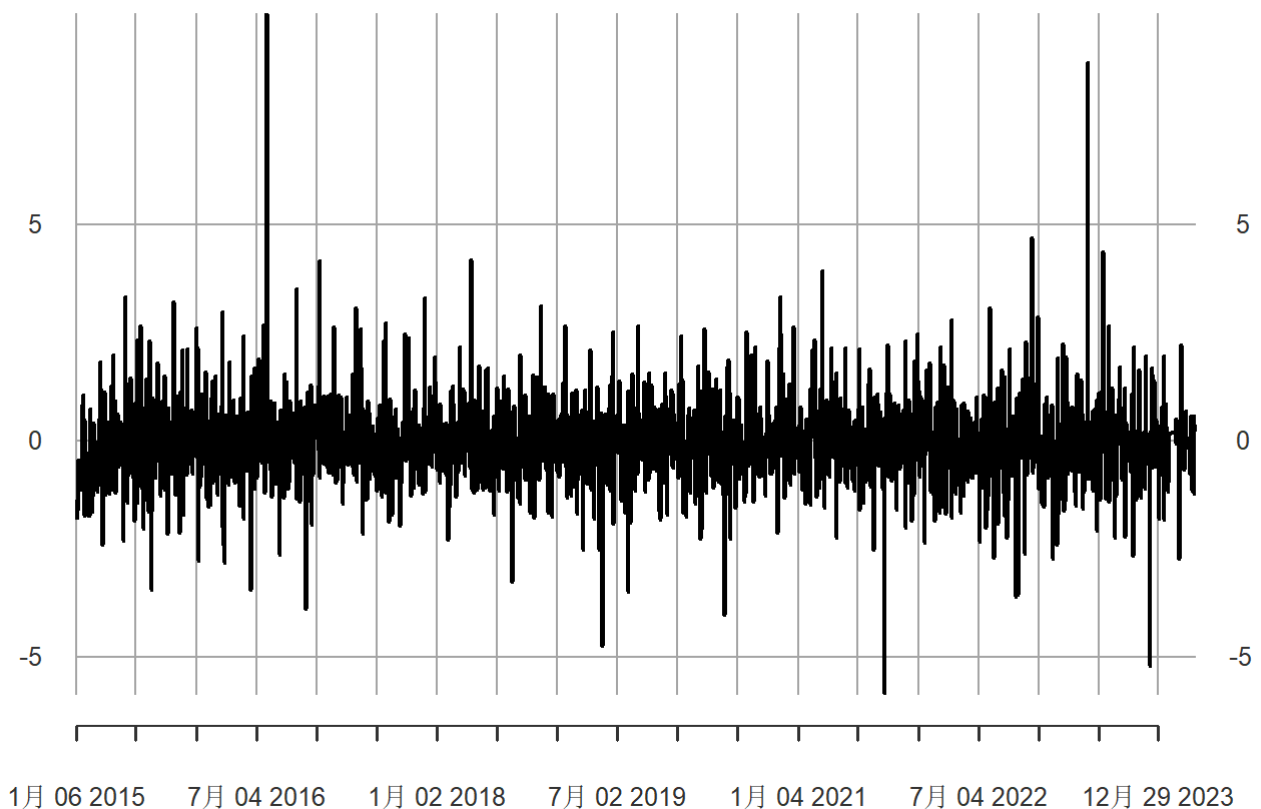
ACF of Squared Standardized Residuals



```
TI_stresi=residuals(TI_md_2,standardize=T)
plot(TI_stresi,type="l")
```

TI\_stresi

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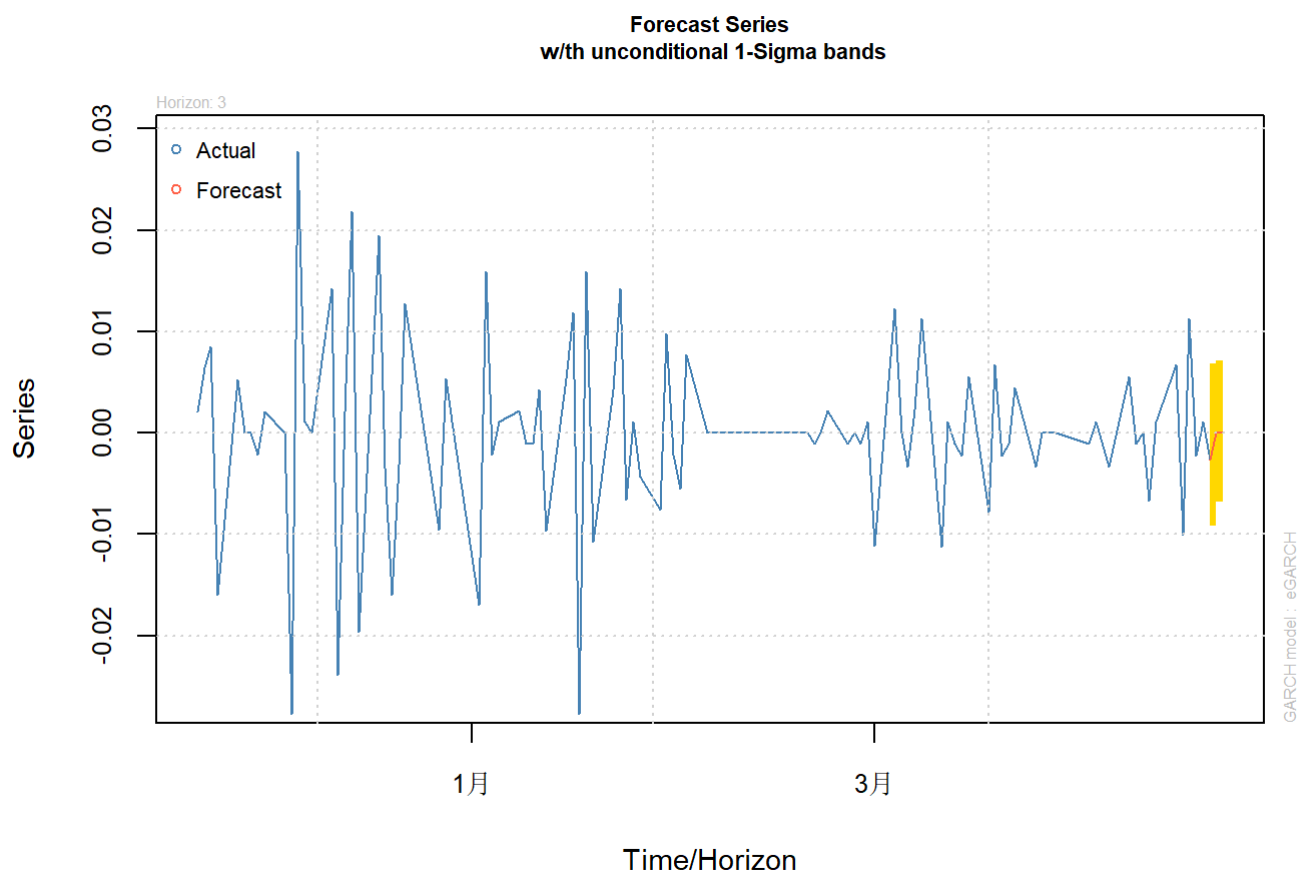
```
Box.test(TI_stresi, 2288, type="Ljung-Box", fitdf = 4) # p-value > 0.05, white noise
```

```
##  
## Box-Ljung test  
##  
## data: TI_stresi  
## X-squared = 2178.7, df = 2284, p-value = 0.9421
```

```
Box.test(TI_stresi^2, 2288, type="Ljung-Box", fitdf = 4) # p-value > 0.05, remains no ARCH effect
```

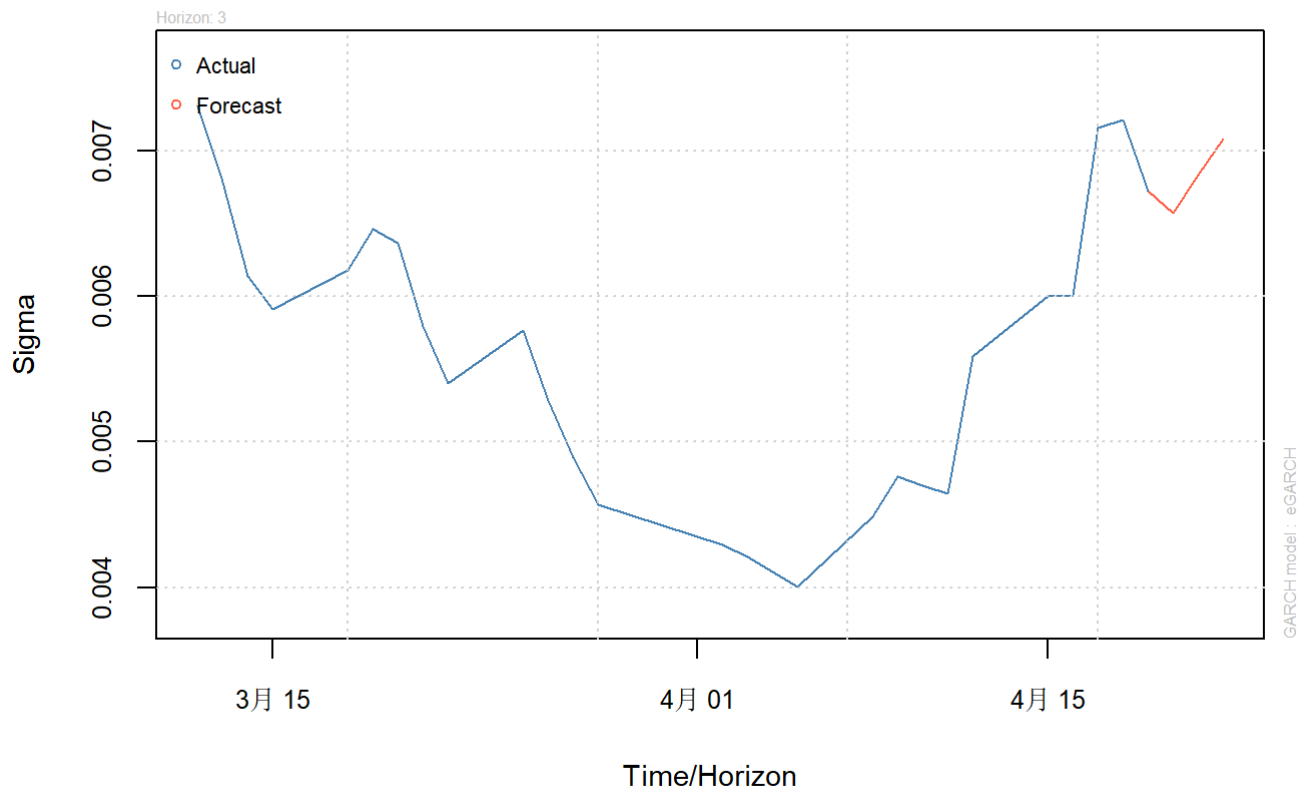
```
##  
## Box-Ljung test  
##  
## data: TI_stresi^2  
## X-squared = 2229.3, df = 2284, p-value = 0.7897
```

```
# 模型预测  
forecast = ugarchforecast(TI_md_2, n.ahead = 3, data=TI_dr_1)  
plot(forecast, which = 1)
```



```
plot(forecast, which = 3)
```

Forecast Unconditional Sigma  
(n.roll = 0)



##### 观察到 MTR 和 TI 日增长率较为接近，考察此二者的VARMA模型

```
library(mvtnorm)
```

```
library(MTS)
```

```
zt = as.matrix(cbind(MTR, TI))
```

```
colnames(zt) = c("MTR", "TI")
```

```
zt = diff(log(zt))*100
```

```
plot(as.xts(zt), type="l",
```

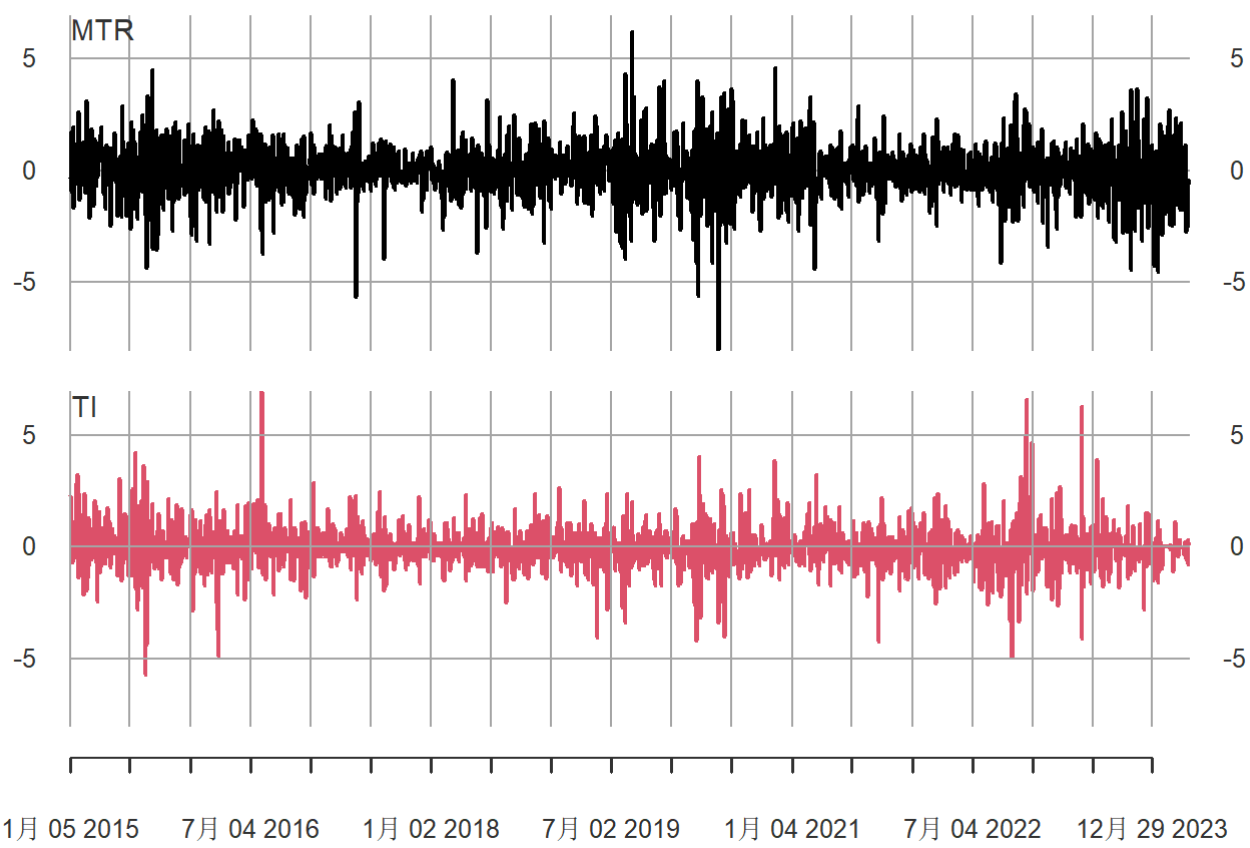
```
multi.panel=TRUE, theme="white",
```

```
main="日增长率")
```



日增长率

2015-01-05 / 2024-04-19

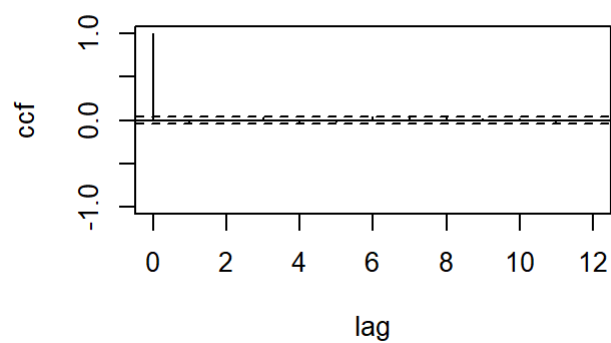
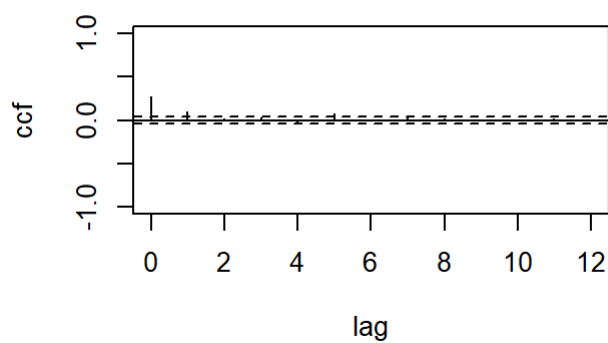
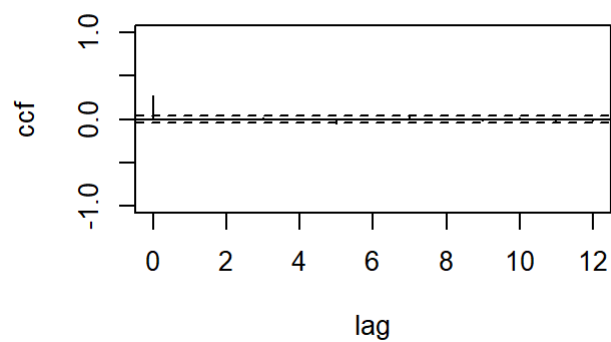
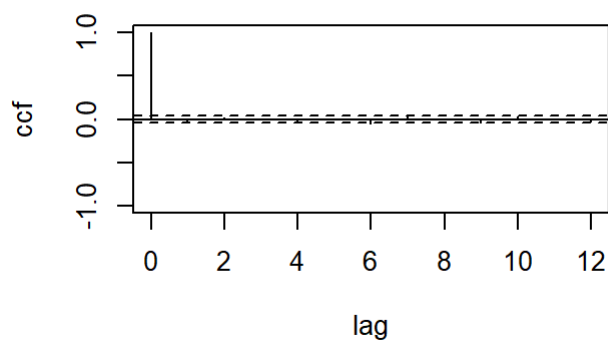


# 白噪声检验  
ccm(zt)

```

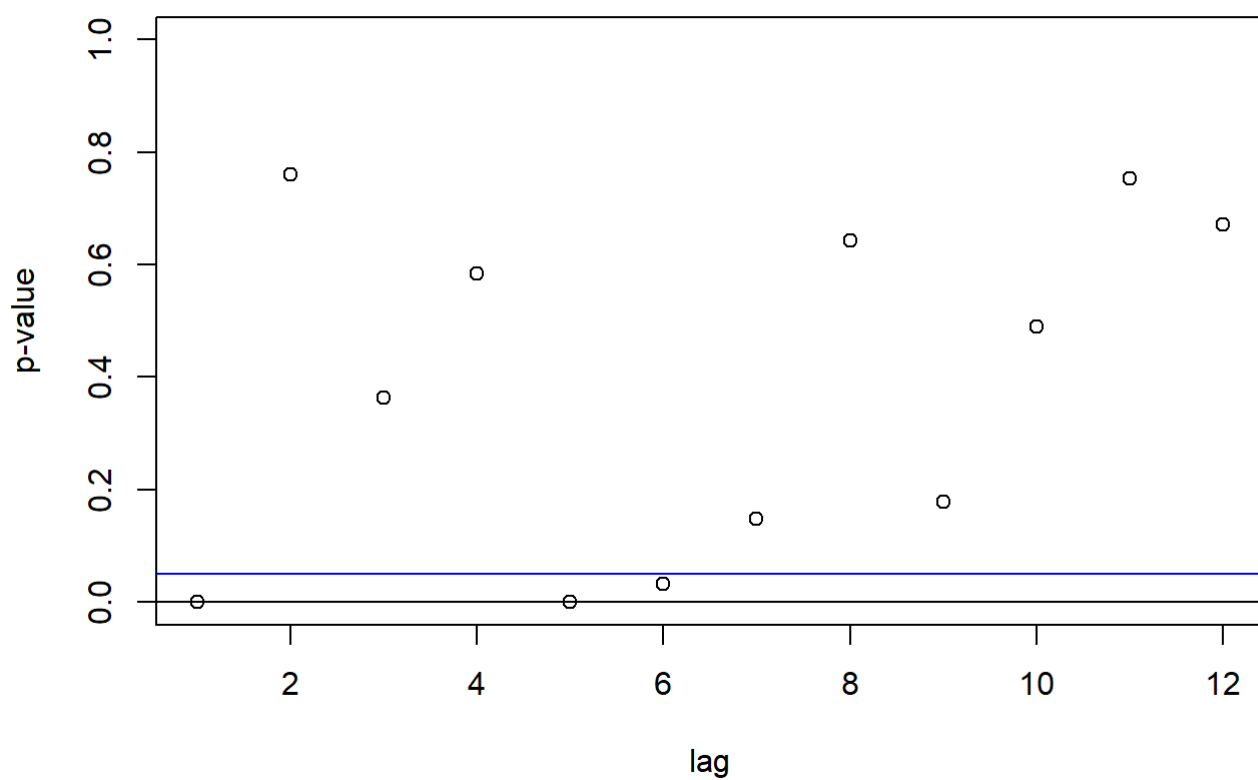
## [1] "Covariance matrix:"
##      MTR      TI
## MTR 1.346 0.299
## TI  0.299 0.907
## CCM at lag:  0
##      [,1] [,2]
## [1,] 1.000 0.271
## [2,] 0.271 1.000
## Simplified matrix:
## CCM at lag:  1
## . .
## + .
## CCM at lag:  2
## . .
## . .
## CCM at lag:  3
## . .
## . .
## CCM at lag:  4
## . .
## . .
## CCM at lag:  5
## . -
## + .
## CCM at lag:  6
## - .
## . +
## CCM at lag:  7
## . .
## . .
## CCM at lag:  8
## . .
## . .
## CCM at lag:  9
## - .
## . .
## CCM at lag: 10
## . .
## . .
## CCM at lag: 11
## . .
## . .
## CCM at lag: 12
## . .
## . .

```



## Hit Enter for p-value plot of individual ccm:

### Significance plot of CCM

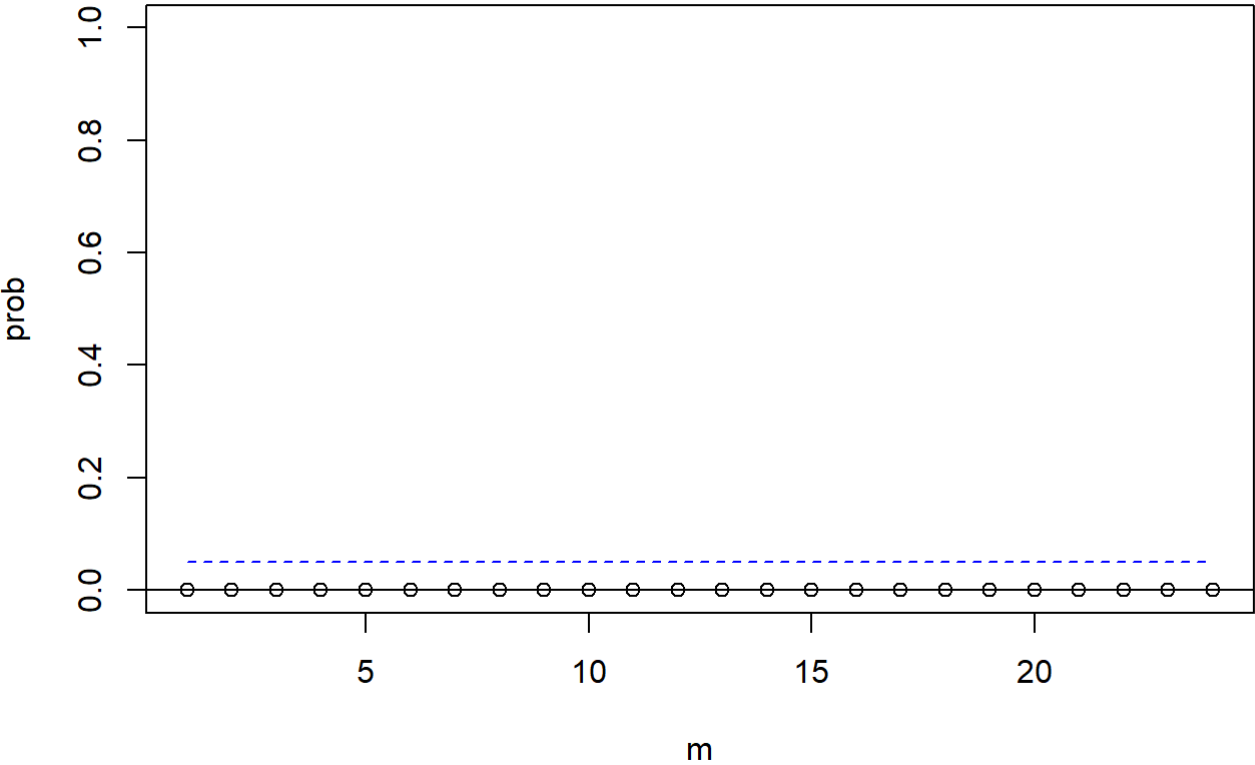


mq(zt)

## Ljung-Box Statistics:

##		m	Q(m)	df	p-value
##	[1, ]	1.0	32.2	4.0	0
##	[2, ]	2.0	34.0	8.0	0
##	[3, ]	3.0	38.4	12.0	0
##	[4, ]	4.0	41.2	16.0	0
##	[5, ]	5.0	60.3	20.0	0
##	[6, ]	6.0	70.9	24.0	0
##	[7, ]	7.0	77.7	28.0	0
##	[8, ]	8.0	80.2	32.0	0
##	[9, ]	9.0	86.5	36.0	0
##	[10, ]	10.0	89.9	40.0	0
##	[11, ]	11.0	91.8	44.0	0
##	[12, ]	12.0	94.2	48.0	0
##	[13, ]	13.0	95.0	52.0	0
##	[14, ]	14.0	98.3	56.0	0
##	[15, ]	15.0	109.4	60.0	0
##	[16, ]	16.0	114.0	64.0	0
##	[17, ]	17.0	116.0	68.0	0
##	[18, ]	18.0	125.3	72.0	0
##	[19, ]	19.0	132.1	76.0	0
##	[20, ]	20.0	142.2	80.0	0
##	[21, ]	21.0	146.1	84.0	0
##	[22, ]	22.0	153.8	88.0	0
##	[23, ]	23.0	157.2	92.0	0
##	[24, ]	24.0	161.9	96.0	0

p-values of Ljung-Box statistics



```
# 模型识别 + 参数估计
VARorder(zt, maxp = 10, output = T)
```

```
## selected order: aic = 7
## selected order: bic = 1
## selected order: hq = 1
## Summary table:
##      p    AIC    BIC    HQ    M(p) p-value
## [1,]  0 0.1217 0.1217 0.1217  0.0000 0.0000
## [2,]  1 0.1107 0.1207 0.1144 32.8427 0.0000
## [3,]  2 0.1130 0.1331 0.1203  2.7280 0.6043
## [4,]  3 0.1146 0.1447 0.1256  4.3335 0.3628
## [5,]  4 0.1168 0.1568 0.1314  3.0329 0.5523
## [6,]  5 0.1108 0.1609 0.1291 21.3657 0.0003
## [7,]  6 0.1097 0.1698 0.1316 10.5502 0.0321
## [8,]  7 0.1097 0.1798 0.1352  7.9228 0.0944
## [9,]  8 0.1121 0.1922 0.1413  2.4130 0.6603
## [10,] 9 0.1124 0.2026 0.1453  7.1960 0.1259
## [11,] 10 0.1144 0.2146 0.1509  3.4006 0.4932
```

```
# VMAorder(zt, lag=20)
# m2=Eccm(zt, maxp=8, maxq=6)
m2=VARMA(zt, p=7, q=0)
```

```

## Number of parameters: 30
## initial estimates: -2e-04 -0.012 -0.0285 0.0236 0.0138 -0.0016 -2e-04 0.0288 -0.0326 0.0121
0.0138 -0.0558 -0.0484 0.0199 0.0174 0.0386 0.0941 -0.0497 0.0316 -0.0258 0.0218 0.0226 -0.0027
-0.0239 0.0727 -0.0404 0.0063 0.0407 0.0223 0.0384
## Par. lower-bounds: -0.0487 -0.0514 -0.0721 -0.0299 -0.0301 -0.0551 -0.0441 -0.0246 -0.0765
-0.0412 -0.0301 -0.1091 -0.0925 -0.0335 -0.0267 -0.0145 0.0586 -0.0932 -0.0041 -0.0693 -0.014 -
0.0209 -0.0385 -0.0674 0.0369 -0.0838 -0.0296 -0.0028 -0.0136 -0.0048
## Par. upper-bounds: 0.0482 0.0275 0.015 0.0772 0.0576 0.052 0.0437 0.0822 0.0113 0.0655 0.05
78 -0.0024 -0.0042 0.0733 0.0615 0.0917 0.1296 -0.0061 0.0674 0.0178 0.0575 0.066 0.033 0.0195
0.1084 0.0031 0.0423 0.0842 0.0582 0.0816
## Final Estimates: -0.000771795 -0.01252847 -0.03027249 0.0238697 0.01376568 -0.002463397 -
0.0007262731 0.03027311 -0.03382581 0.01233757 0.01468163 -0.05622393 -0.04724821 0.01943839 0.
01749439 0.03620205 0.09398179 -0.04945645 0.03157176 -0.025782 0.02143204 0.02262957 -0.003306
963 -0.02386834 0.07195985 -0.04018353 0.005902419 0.04089285 0.02207599 0.03829048
##
## Coefficient(s):
## Estimate Std. Error t value Pr(>|t|)
## MTR -0.0007718 0.0243187 -0.032 0.9747
## TI -0.0125285 0.0196766 -0.637 0.5243
## MTR -0.0302725 0.0217462 -1.392 0.1639
## TI 0.0238697 0.0267353 0.893 0.3720
## MTR 0.0137657 0.0218883 0.629 0.5294
## TI -0.0024634 0.0267641 -0.092 0.9267
## MTR -0.0007263 0.0218451 -0.033 0.9735
## TI 0.0302731 0.0266491 1.136 0.2560
## MTR -0.0338258 0.0218880 -1.545 0.1222
## TI 0.0123376 0.0266599 0.463 0.6435
## MTR 0.0146816 0.0219013 0.670 0.5026
## TI -0.0562239 0.0266502 -2.110 0.0349 *
## MTR -0.0472482 0.0220058 -2.147 0.0318 *
## TI 0.0194384 0.0266645 0.729 0.4660
## MTR 0.0174944 0.0219784 0.796 0.4260
## TI 0.0362020 0.0264588 1.368 0.1712
## MTR 0.0939818 0.0176873 5.314 1.08e-07 ***
## TI -0.0494565 0.0217458 -2.274 0.0229 *
## MTR 0.0315718 0.0178035 1.773 0.0762 .
## TI -0.0257820 0.0217542 -1.185 0.2360
## MTR 0.0214320 0.0178040 1.204 0.2287
## TI 0.0226296 0.0216810 1.044 0.2966
## MTR -0.0033070 0.0178041 -0.186 0.8526
## TI -0.0238683 0.0216837 -1.101 0.2710
## MTR 0.0719599 0.0178133 4.040 5.35e-05 ***
## TI -0.0401835 0.0216760 -1.854 0.0638 .
## MTR 0.0059024 0.0178990 0.330 0.7416
## TI 0.0408928 0.0216877 1.886 0.0594 .
## MTR 0.0220760 0.0178767 1.235 0.2169
## TI 0.0382905 0.0215206 1.779 0.0752 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## ---
## Estimates in matrix form:
## Constant term:
## Estimates: -0.000771795 -0.01252847
## AR coefficient matrix
## AR( 1 )-matrix

```

```

##          [,1]      [,2]
## [1,] -0.0303  0.0239
## [2,]  0.0940 -0.0495
## AR( 2 )-matrix
##          [,1]      [,2]
## [1,]  0.0138 -0.00246
## [2,]  0.0316 -0.02578
## AR( 3 )-matrix
##          [,1]      [,2]
## [1,] -0.000726  0.0303
## [2,]  0.021432  0.0226
## AR( 4 )-matrix
##          [,1]      [,2]
## [1,] -0.03383  0.0123
## [2,] -0.00331 -0.0239
## AR( 5 )-matrix
##          [,1]      [,2]
## [1,]  0.0147 -0.0562
## [2,]  0.0720 -0.0402
## AR( 6 )-matrix
##          [,1]      [,2]
## [1,] -0.0472  0.0194
## [2,]  0.0059  0.0409
## AR( 7 )-matrix
##          [,1]      [,2]
## [1,]  0.0175  0.0362
## [2,]  0.0221  0.0383
##
## Residuals cov-matrix:
##          [,1]      [,2]
## [1,]  1.3334263  0.2975986
## [2,]  0.2975986  0.8821350
## ----
## aic=  0.1102636
## bic=  0.1854118

```

```

# 参数显著性检验 + 残差检验
m2b=refVARMA(m2,thres=1.96) # refine further the fit.

```

```

## Number of parameters: 5
## initial estimates: -0.0562 -0.0472 0.094 -0.0495 0.072
## Par. lower-bounds: -0.1095 -0.0913 0.0586 -0.0929 0.0363
## Par. upper-bounds: -0.0029 -0.0032 0.1294 -0.006 0.1076
## Final Estimates: -0.04057745 -0.0469359 0.09579684 -0.04789145 0.05867691
##
## Coefficient(s):
## Estimate Std. Error t value Pr(>|t|)
## -0.04058 0.02465 -1.646 0.099771 .
## -0.04694 0.02020 -2.324 0.020134 *
## 0.09580 0.01701 5.632 1.78e-08 ***
## -0.04789 0.02074 -2.310 0.020914 *
## 0.05868 0.01643 3.572 0.000354 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## ---
## Estimates in matrix form:
## Constant term:
## Estimates: 0 0
## AR coefficient matrix
## AR( 1 )-matrix
## [,1] [,2]
## [1,] 0.0000 0.0000
## [2,] 0.0958 -0.0479
## AR( 2 )-matrix
## [,1] [,2]
## [1,] 0 0
## [2,] 0 0
## AR( 3 )-matrix
## [,1] [,2]
## [1,] 0 0
## [2,] 0 0
## AR( 4 )-matrix
## [,1] [,2]
## [1,] 0 0
## [2,] 0 0
## AR( 5 )-matrix
## [,1] [,2]
## [1,] 0.0000 -0.0406
## [2,] 0.0587 0.0000
## AR( 6 )-matrix
## [,1] [,2]
## [1,] -0.0469 0
## [2,] 0.0000 0
## AR( 7 )-matrix
## [,1] [,2]
## [1,] 0 0
## [2,] 0 0
##
## Residuals cov-matrix:
## [,1] [,2]
## [1,] 1.340071 0.3028890
## [2,] 0.302889 0.8910144
## ----

```



```
## aic= 0.101748  
## bic= 0.1142727
```

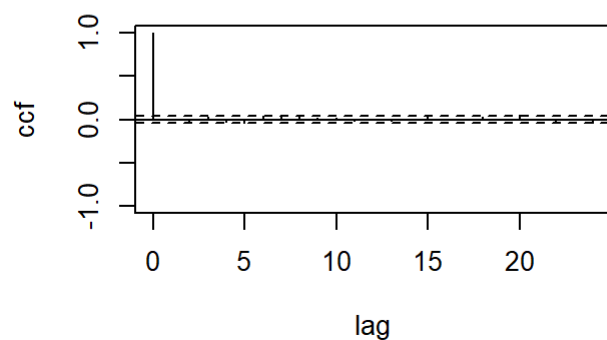
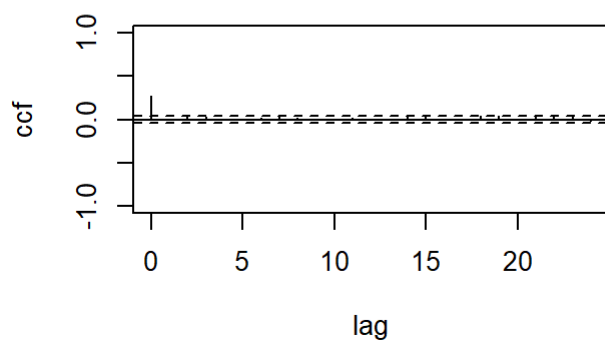
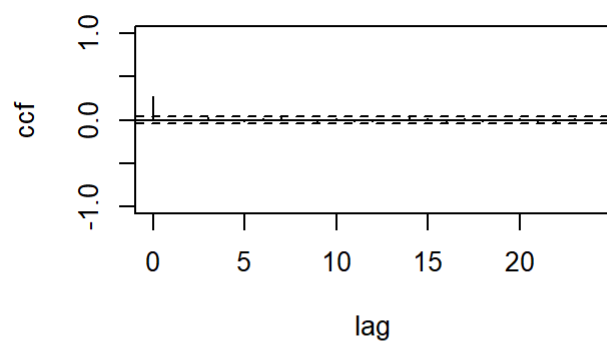
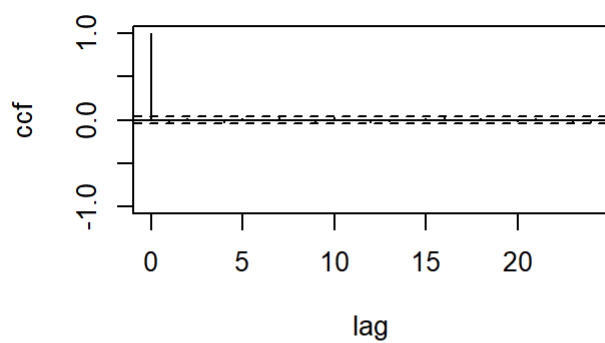
```
MTSdiag(m2b, adj=5)
```

```

## [1] "Covariance matrix:"
##      MTR      TI
## MTR 1.341 0.303
## TI  0.303 0.891
## CCM at lag:  0
##      [,1] [,2]
## [1,] 1.000 0.277
## [2,] 0.277 1.000
## Simplified matrix:
## CCM at lag:  1
## . .
## . .
## CCM at lag:  2
## . .
## . .
## CCM at lag:  3
## . .
## . .
## CCM at lag:  4
## . .
## . .
## CCM at lag:  5
## . .
## . .
## CCM at lag:  6
## . .
## . +
## CCM at lag:  7
## . .
## . +
## CCM at lag:  8
## . .
## . .
## CCM at lag:  9
## - .
## . .
## CCM at lag: 10
## . .
## . .
## CCM at lag: 11
## . .
## . .
## CCM at lag: 12
## . .
## . .
## CCM at lag: 13
## . .
## . .
## CCM at lag: 14
## . .
## . .
## CCM at lag: 15
## . .
## + +
## CCM at lag: 16

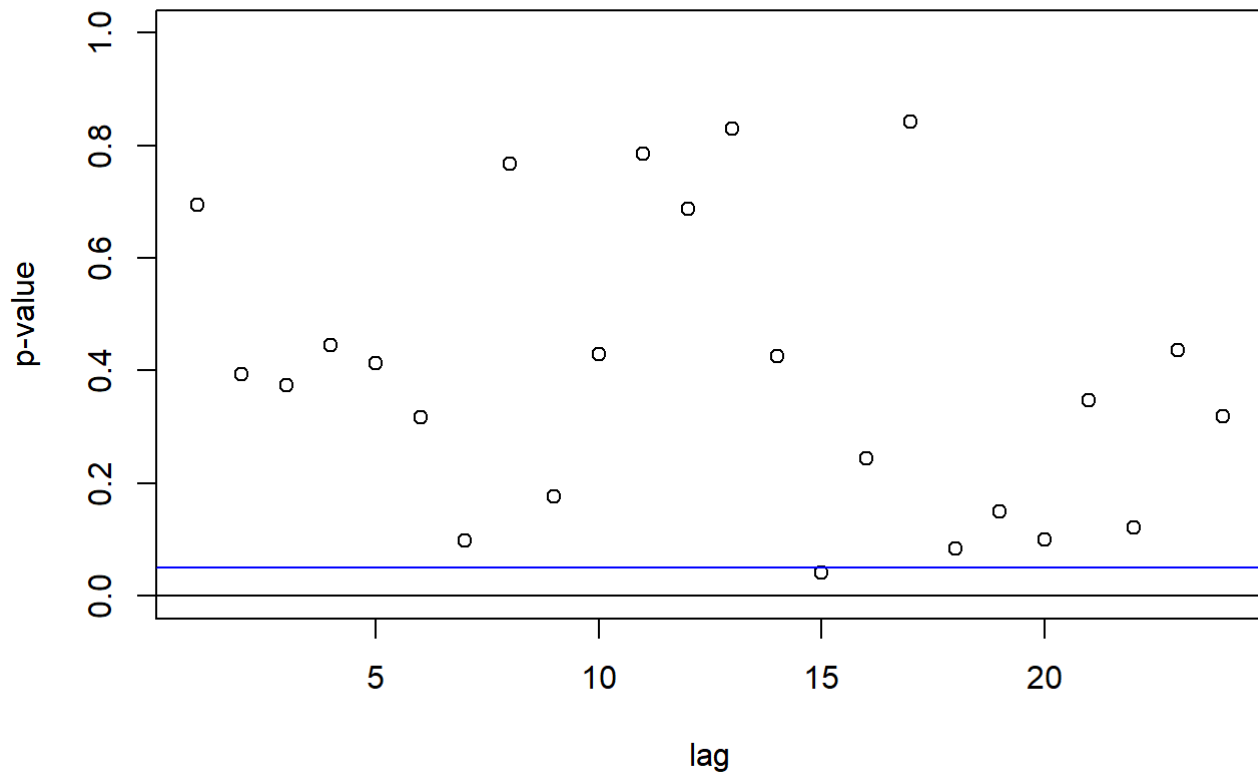
```

```
## . .
## . .
## CCM at lag: 17
## . .
## . .
## CCM at lag: 18
## . .
## + .
## CCM at lag: 19
## . .
## + .
## CCM at lag: 20
## . .
## . +
## CCM at lag: 21
## . .
## . .
## CCM at lag: 22
## . .
## . .
## CCM at lag: 23
## . .
## . .
## CCM at lag: 24
## . .
## . .
```



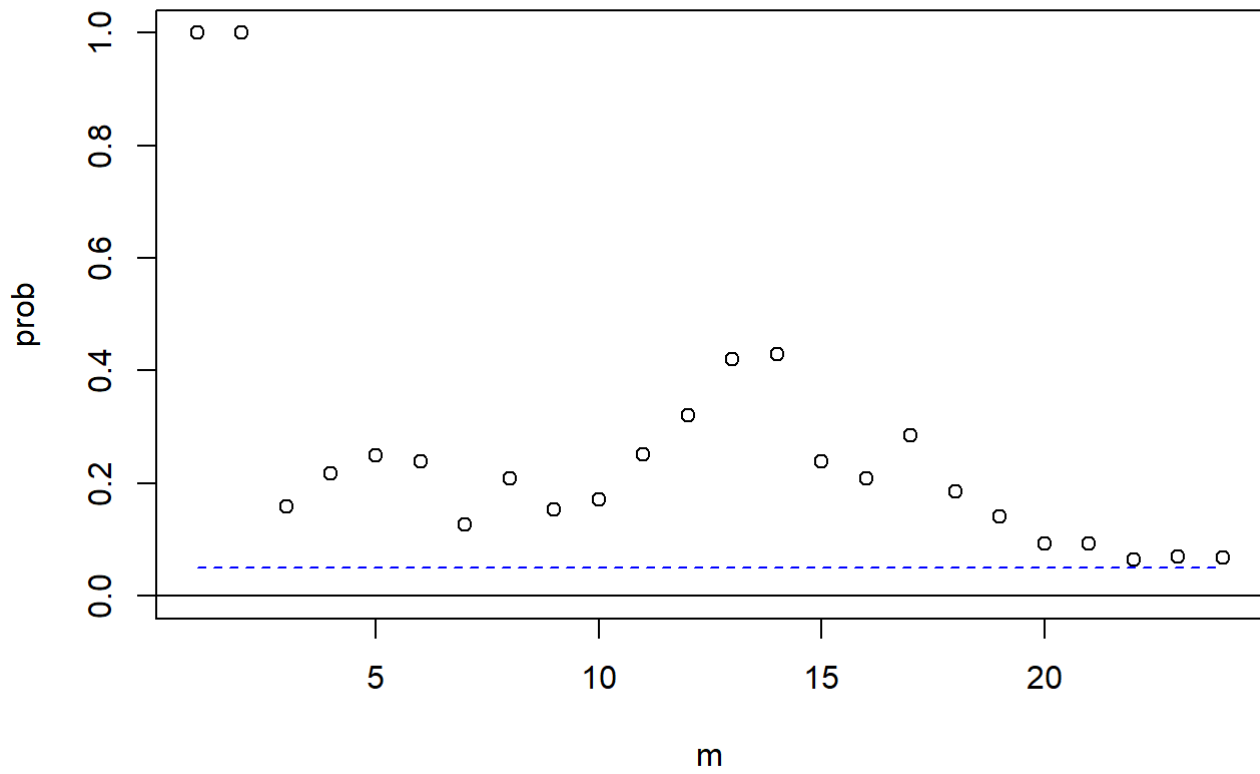
```
## Hit Enter for p-value plot of individual ccm:
```

## Significance plot of CCM

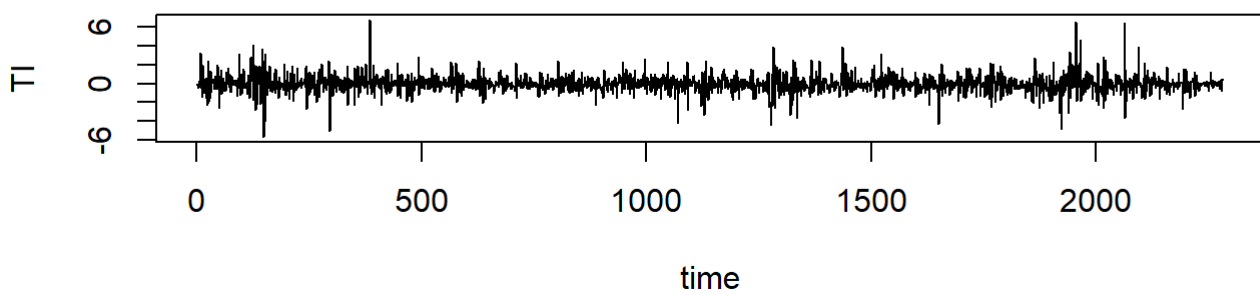
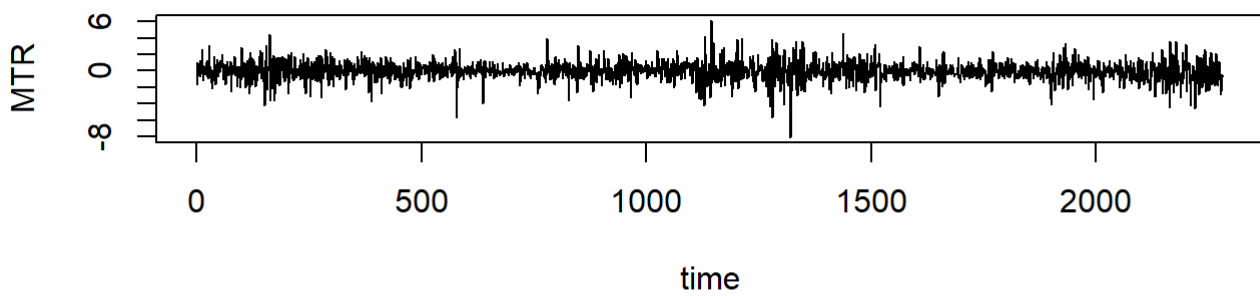


```
## Hit Enter to compute MQ-statistics:
##
## Ljung-Box Statistics:
##      m      Q(m)    df    p-value
## [1,]  1.00    2.23   -1.00    1.00
## [2,]  2.00    6.32    3.00    1.00
## [3,]  3.00   10.57    7.00    0.16
## [4,]  4.00   14.30   11.00    0.22
## [5,]  5.00   18.24   15.00    0.25
## [6,]  6.00   22.97   19.00    0.24
## [7,]  7.00   30.81   23.00    0.13
## [8,]  8.00   32.64   27.00    0.21
## [9,]  9.00   38.96   31.00    0.15
## [10,] 10.00   42.79   35.00    0.17
## [11,] 11.00   44.52   39.00    0.25
## [12,] 12.00   46.78   43.00    0.32
## [13,] 13.00   48.27   47.00    0.42
## [14,] 14.00   52.13   51.00    0.43
## [15,] 15.00   62.04   55.00    0.24
## [16,] 16.00   67.50   59.00    0.21
## [17,] 17.00   68.91   63.00    0.28
## [18,] 18.00   77.15   67.00    0.19
## [19,] 19.00   83.92   71.00    0.14
## [20,] 20.00   91.69   75.00    0.09
## [21,] 21.00   96.15   79.00    0.09
## [22,] 22.00  103.45   83.00    0.06
## [23,] 23.00  107.24   87.00    0.07
## [24,] 24.00  111.95   91.00    0.07
```

## p-values of Ljung-Box statistics



## Hit Enter to obtain residual plots:

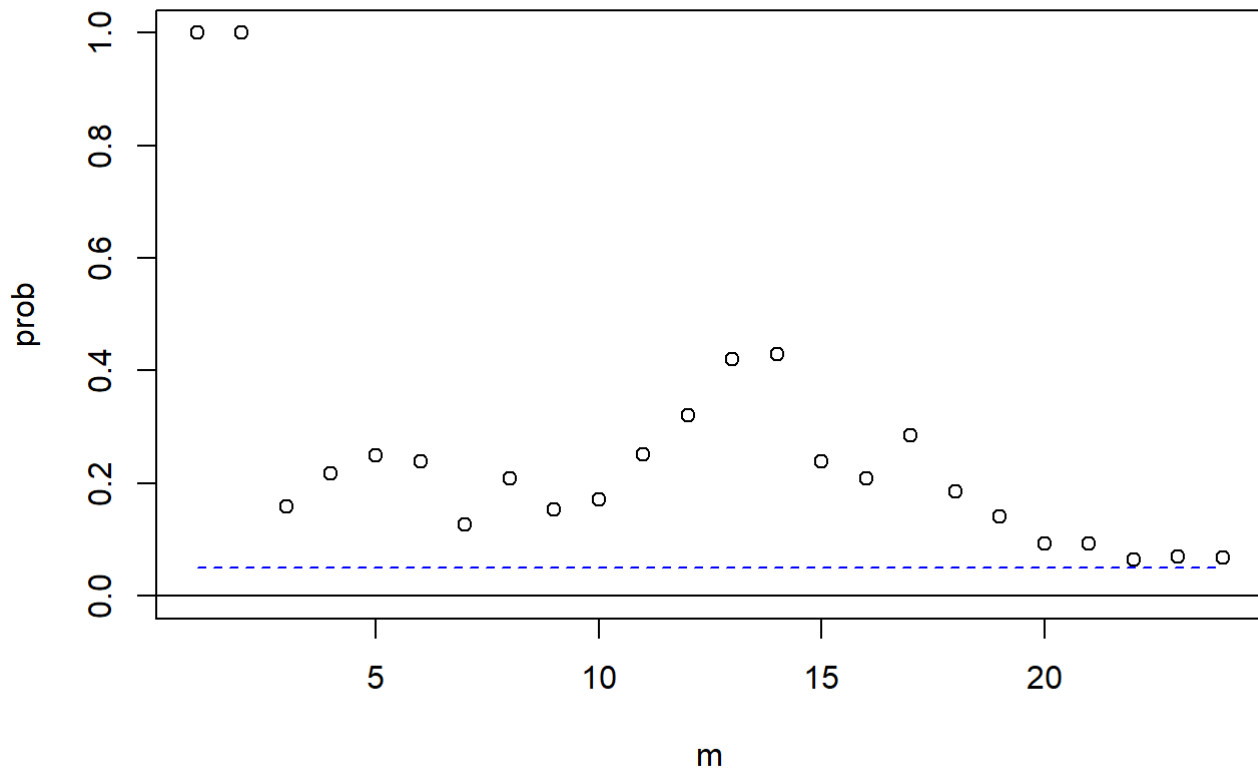


```
# or mq
r2b=m2b$residuals
mq(r2b,adj=5)
```

```
## Ljung-Box Statistics:
```

##		m	Q(m)	df	p-value
##	[1, ]	1.00	2.23	-1.00	1.00
##	[2, ]	2.00	6.32	3.00	1.00
##	[3, ]	3.00	10.57	7.00	0.16
##	[4, ]	4.00	14.30	11.00	0.22
##	[5, ]	5.00	18.24	15.00	0.25
##	[6, ]	6.00	22.97	19.00	0.24
##	[7, ]	7.00	30.81	23.00	0.13
##	[8, ]	8.00	32.64	27.00	0.21
##	[9, ]	9.00	38.96	31.00	0.15
##	[10, ]	10.00	42.79	35.00	0.17
##	[11, ]	11.00	44.52	39.00	0.25
##	[12, ]	12.00	46.78	43.00	0.32
##	[13, ]	13.00	48.27	47.00	0.42
##	[14, ]	14.00	52.13	51.00	0.43
##	[15, ]	15.00	62.04	55.00	0.24
##	[16, ]	16.00	67.50	59.00	0.21
##	[17, ]	17.00	68.91	63.00	0.28
##	[18, ]	18.00	77.15	67.00	0.19
##	[19, ]	19.00	83.92	71.00	0.14
##	[20, ]	20.00	91.69	75.00	0.09
##	[21, ]	21.00	96.15	79.00	0.09
##	[22, ]	22.00	103.45	83.00	0.06
##	[23, ]	23.00	107.24	87.00	0.07
##	[24, ]	24.00	111.95	91.00	0.07

## p-values of Ljung-Box statistics



```
# 预测
VARMApred(m2b, h=4)
```

```
## Predictions at origin 2290
##      MTR      TI
## 0.12052 -0.13080
## 0.07911 -0.12619
## 0.10147 -0.09675
## 0.08372 -0.01046
## Standard errors of predictions
##      [,1] [,2]
## [1,] 1.158 0.9439
## [2,] 1.158 0.9500
## [3,] 1.158 0.9501
## [4,] 1.158 0.9501
```