

# ACP-SDA

## Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

## Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
#Importul datelor in R
date = read.csv("cantitative_SDA.csv", header=TRUE, sep=',')
head(date)
```

```
insured_cod months_as_customer insured_age policy_number policy_bind_year
1      466132             328         48      521585             2014
2      468176             228         42      342868             2006
3      430632             134         29      687698             2000
4      608117             256         41      227811             1990
5      610706             228         44      367455             2014
6      478456             256         39      104594             2006
policy_bind_month policy_bind_day policy_deductable incident_year
1              10              17             1000             2015
2              6              27             2000             2015
3              9              6             2000             2015
4              5              25             2000             2015
5              6              6             1000             2015
6             10             12             1000             2015
incident_month incident_day number_of_vehicles_involved bodily_injuries
1              1             25              1              1
2              1             21              1              0
```

3	2	22	3	2
4	1	10	1	1
5	2	17	1	0
6	1	2	3	0

	witnesses	vehicle_price	injury_claim	auto_year	fraud_reported
1	2	71610	6510	2004	1
2	0	5070	780	2007	1
3	3	34650	7700	2007	0
4	2	63400	6340	2014	1
5	1	6500	1300	2009	0
6	2	64100	6410	2003	1

```
attach(date)
View(date)
```

You can add options to executable code like this

```
#Statisticii descriptive
summary(date)
```

insured_cod	months_as_customer	insured_age	policy_number
Min. :430104	Min. : 0.0	Min. :19.00	Min. :100804
1st Qu.:448444	1st Qu.:115.2	1st Qu.:32.00	1st Qu.:336189
Median :466446	Median :199.5	Median :38.00	Median :533135
Mean :501312	Mean :203.9	Mean :38.94	Mean :546495
3rd Qu.:603257	3rd Qu.:276.8	3rd Qu.:44.00	3rd Qu.:759819
Max. :620962	Max. :479.0	Max. :64.00	Max. :999435
policy_bind_year	policy_bind_month	policy_bind_day	policy_deductable
Min. :1990	Min. : 1.000	Min. : 1.00	Min. : 500
1st Qu.:1995	1st Qu.: 3.000	1st Qu.: 8.00	1st Qu.: 500
Median :2002	Median : 7.000	Median :16.00	Median :1000
Mean :2002	Mean : 6.558	Mean :15.47	Mean :1137
3rd Qu.:2008	3rd Qu.:10.000	3rd Qu.:23.00	3rd Qu.:2000
Max. :2015	Max. :12.000	Max. :31.00	Max. :2000
incident_year	incident_month	incident_day	number_of_vehicles_involved
Min. :2015	Min. :1.000	Min. : 1.00	Min. :1.000
1st Qu.:2015	1st Qu.:1.000	1st Qu.: 8.00	1st Qu.:1.000
Median :2015	Median :1.000	Median :15.00	Median :1.000
Mean :2015	Mean :1.495	Mean :14.99	Mean :1.841
3rd Qu.:2015	3rd Qu.:2.000	3rd Qu.:22.00	3rd Qu.:3.000
Max. :2015	Max. :3.000	Max. :31.00	Max. :4.000
bodily_injuries	witnesses	vehicle_price	injury_claim

Min. :0.000	Min. :0.000	Min. : 100	Min. : 0
1st Qu.:0.000	1st Qu.:1.000	1st Qu.: 42060	1st Qu.: 4348
Median :1.000	Median :1.000	Median : 58150	Median : 6780
Mean :0.993	Mean :1.488	Mean : 52863	Mean : 7448
3rd Qu.:2.000	3rd Qu.:2.000	3rd Qu.: 70598	3rd Qu.:11315
Max. :2.000	Max. :3.000	Max. :114920	Max. :21450

auto_year	fraud_reported
Min. :1995	Min. :0.0000
1st Qu.:2000	1st Qu.:0.0000
Median :2005	Median :0.0000
Mean :2005	Mean :0.2475
3rd Qu.:2010	3rd Qu.:0.0000
Max. :2015	Max. :1.0000

```
#Analiza distributiei datelor
# Abaterea standard
apply(date,2,sd)
```

insured_cod	months_as_customer
7.173551e+04	1.152149e+02
insured_age	policy_number
9.148001e+00	2.568843e+05
policy_bind_year	policy_bind_month
7.357591e+00	3.503277e+00
policy_bind_day	policy_deductable
8.804254e+00	6.121311e+02
incident_year	incident_month
0.000000e+00	5.237345e-01
incident_day	number_of_vehicles_involved
8.669223e+00	1.019208e+00
bodily_injuries	witnesses
8.203474e-01	1.112235e+00
vehicle_price	injury_claim
2.634192e+04	4.875062e+03
auto_year	fraud_reported
6.017980e+00	4.317731e-01

```
# Calcul coeficient de variatie
cv=function(x){
  (sd(x)/mean(x))*100
}
```

```
apply(date,2,cv)
```

insured_cod	months_as_customer
14.3095551	56.5003810
insured_age	policy_number
23.4902090	47.0058073
policy_bind_year	policy_bind_month
0.3675876	53.4189490
policy_bind_day	policy_deductable
56.9267598	53.8481156
incident_year	incident_month
0.0000000	35.0326439
incident_day	number_of_vehicles_involved
57.8179946	55.3712280
bodily_injuries	witnesses
82.6141955	74.7481904
vehicle_price	injury_claim
49.8308487	65.4553881
auto_year	fraud_reported
0.3001318	174.4573147

```
# Coeficientii de asimetrie si aplatizare  
library(moments)  
apply(date,2,skewness)
```

insured_cod	months_as_customer
0.81262794	0.36222190
insured_age	policy_number
0.47919921	0.04068165
policy_bind_year	policy_bind_month
0.05510974	-0.01619904
policy_bind_day	policy_deductable
0.05171381	0.47484722
incident_year	incident_month
NaN	0.27145447
incident_day	number_of_vehicles_involved
0.03968438	0.49860045
bodily_injuries	witnesses
0.01293959	0.01713341
vehicle_price	injury_claim

-0.59870765	0.26355179
auto_year	fraud_reported
-0.05167864	1.17020538

```
apply(date,2,kurtosis)
```

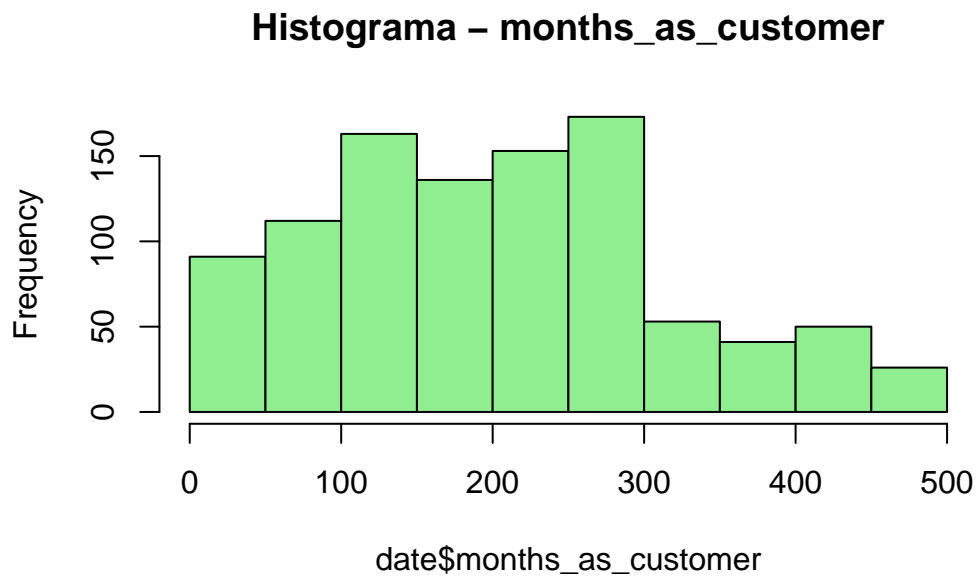
insured_cod	months_as_customer
1.804212	2.507564
insured_age	policy_number
2.732078	1.867170
policy_bind_year	policy_bind_month
1.788506	1.766922
policy_bind_day	policy_deductable
1.774192	1.620784
incident_year	incident_month
NaN	1.642850
incident_day	number_of_vehicles_involved
1.862907	1.497883
bodily_injuries	witnesses
1.487554	1.654908
vehicle_price	injury_claim
2.558404	2.237091
auto_year	fraud_reported
1.828252	2.369381

```
# Varianta
apply(date,2,var)
```

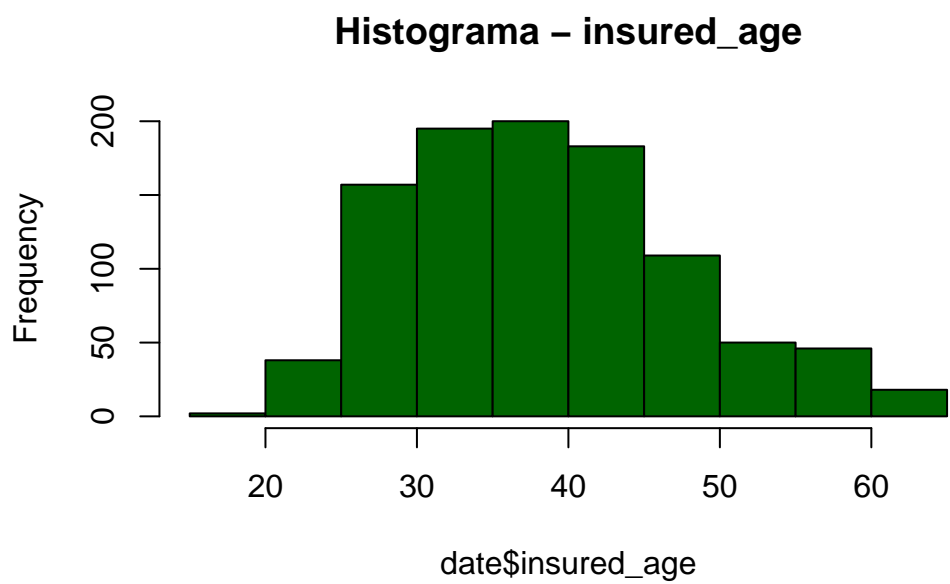
insured_cod	months_as_customer
5.145984e+09	1.327448e+04
insured_age	policy_number
8.368592e+01	6.598954e+10
policy_bind_year	policy_bind_month
5.413414e+01	1.227295e+01
policy_bind_day	policy_deductable
7.751489e+01	3.747045e+05
incident_year	incident_month
0.000000e+00	2.742978e-01
incident_day	number_of_vehicles_involved
7.515543e+01	1.038785e+00

bodily_injuries	witnesses
6.729698e-01	1.237067e+00
vehicle_price	injury_claim
6.938966e+08	2.376623e+07
auto_year	fraud_reported
3.621608e+01	1.864280e-01

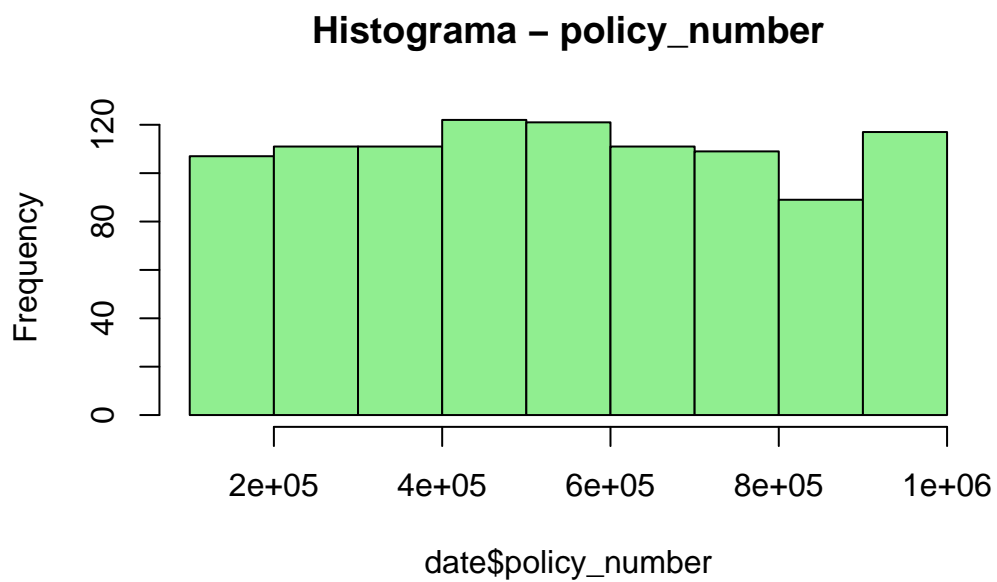
```
# Histograme
hist(date$months_as_customer, main="Histograma - months_as_customer", col="lightgreen")
```



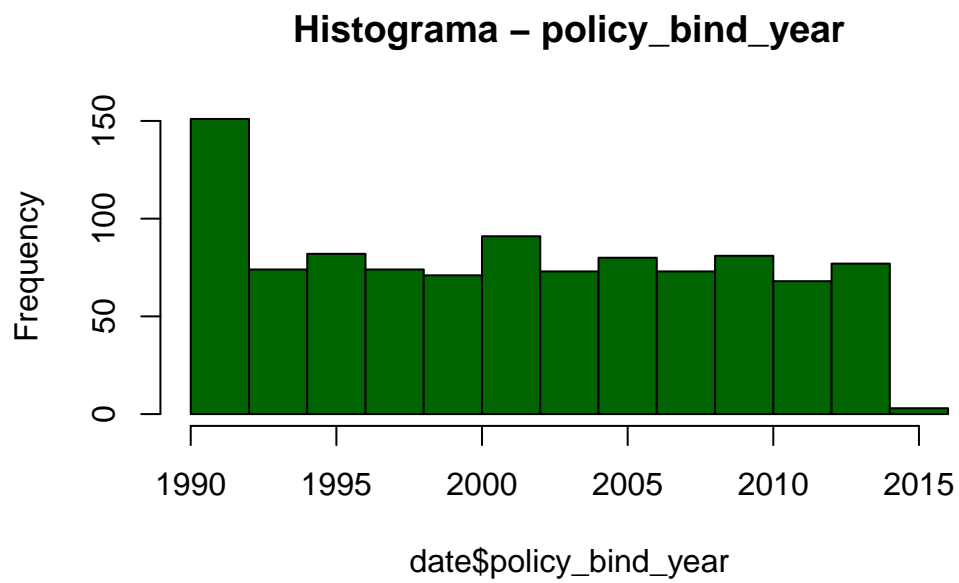
```
hist(date$insured_age, main="Histograma - insured_age", col="darkgreen")
```



```
hist(date$policy_number, main="Histograma - policy_number", col="lightgreen")
```



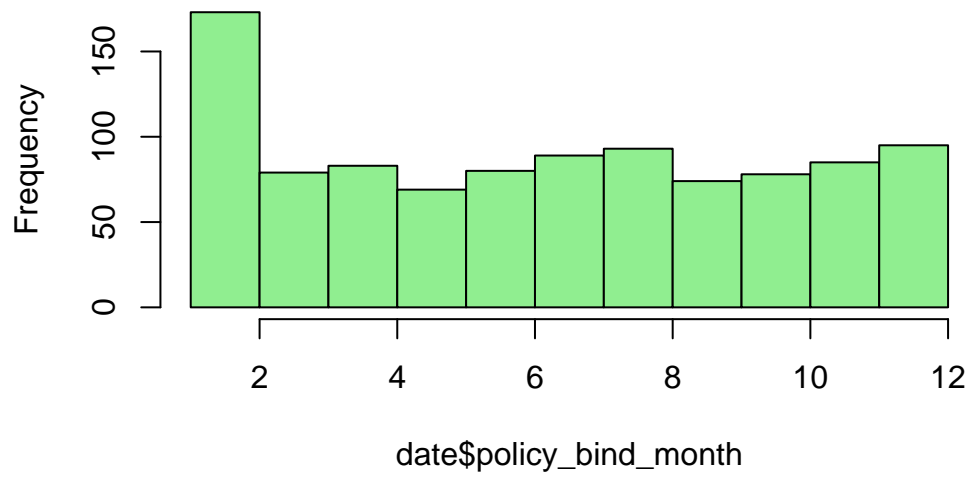
```
hist(date$policy_bind_year, main="Histograma - policy_bind_year", col="darkgreen")
```



```
hist(date$policy_bind_month, main="Histograma - policy_bind_month",  
col="lightgreen")
```

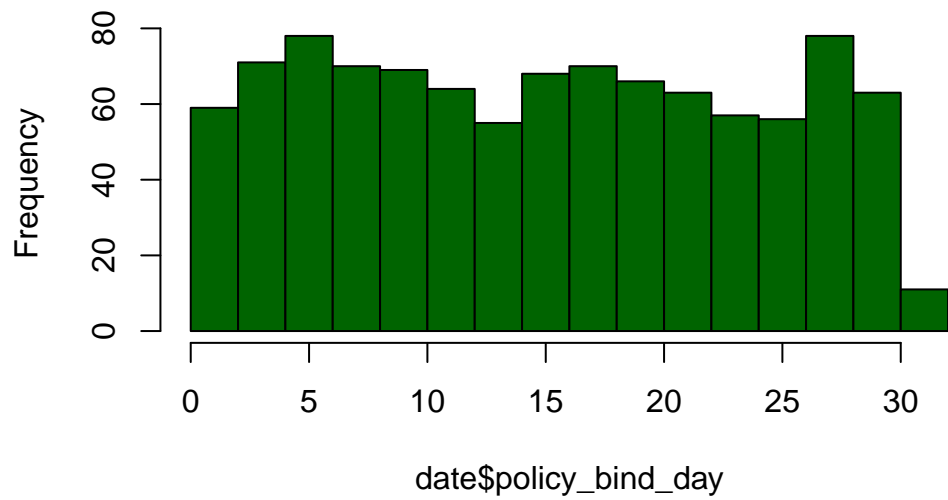


**Histograma – policy\_bind\_month**

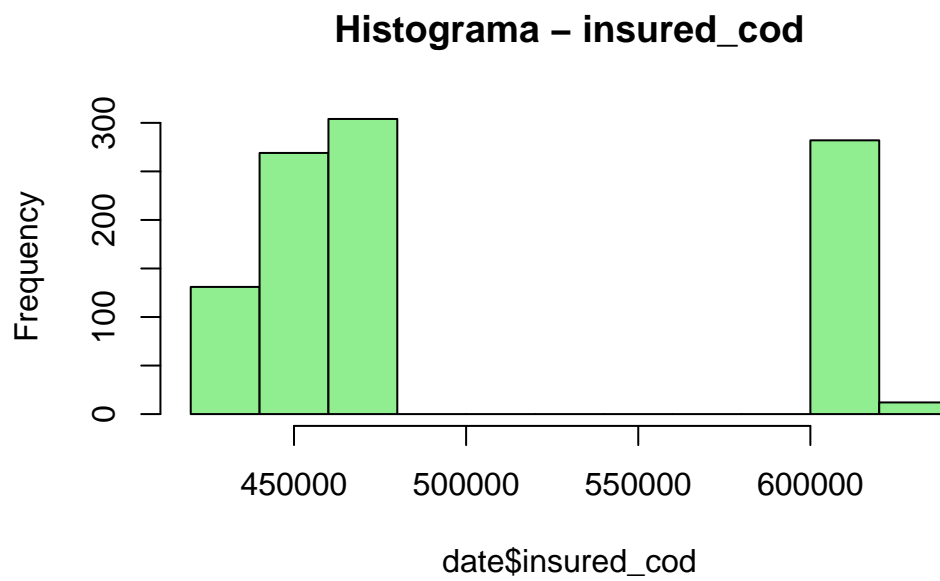


```
hist(date$policy_bind_day, main="Histograma - policy_bind_day", col="darkgreen")
```

**Histograma – policy\_bind\_day**

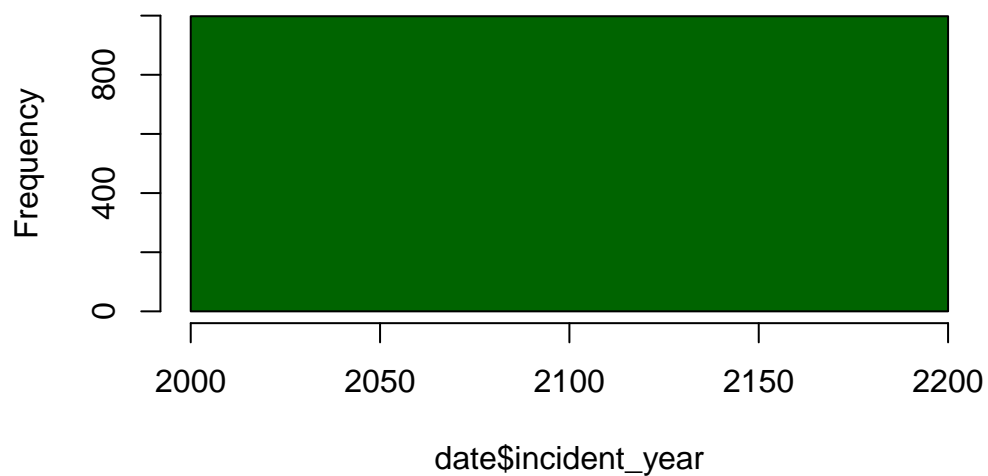


```
hist(date$insured_cod, main="Histograma - insured_cod", col="lightgreen")
```



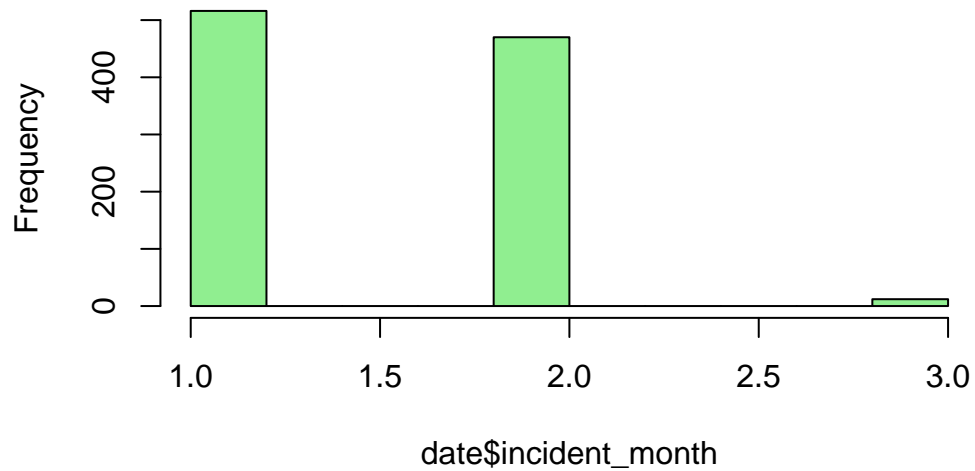
```
hist(date$incident_year, main="Histograma - incident_year", col="darkgreen")
```

**Histograma – incident\_year**

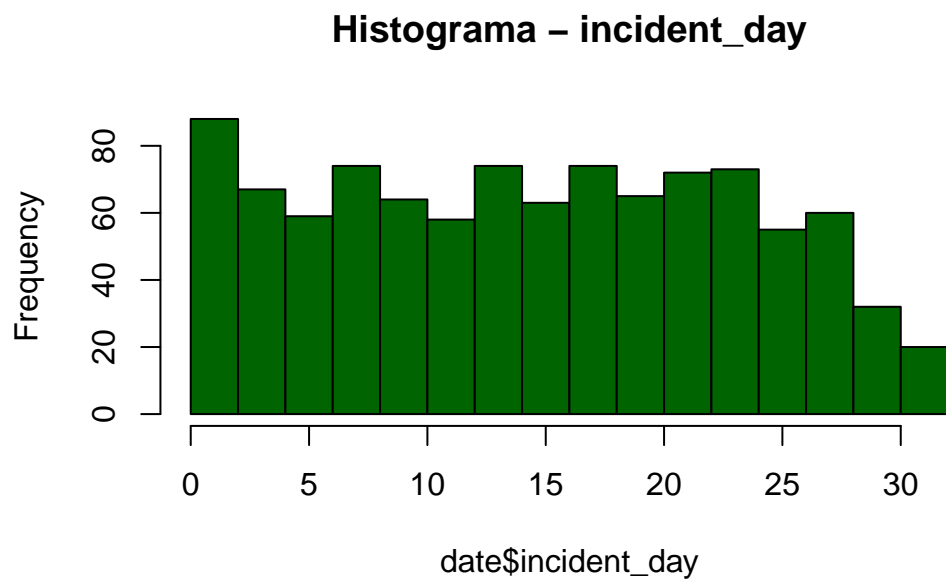


```
hist(date$incident_month, main="Histograma - incident_month", col="lightgreen")
```

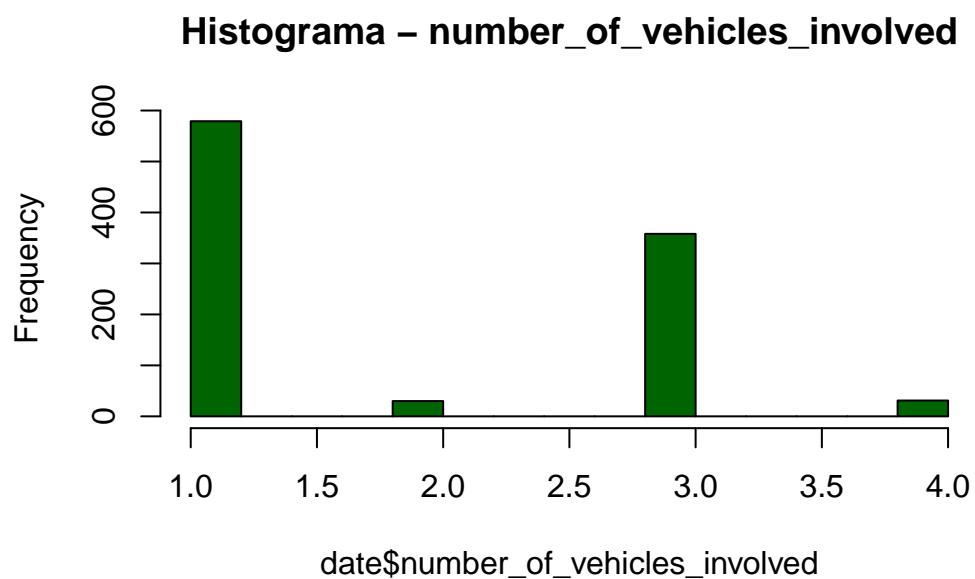
**Histograma – incident\_month**



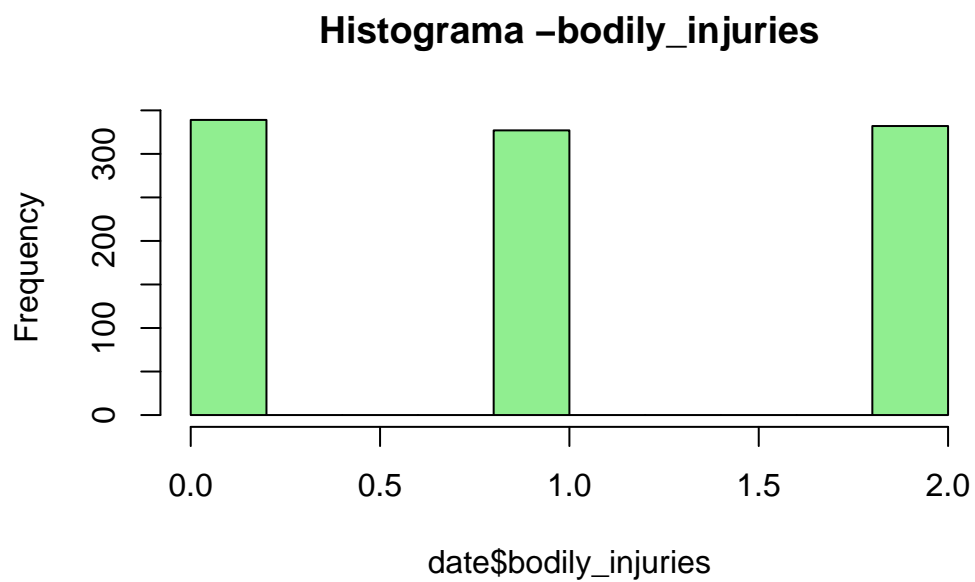
```
hist(date$incident_day, main="Histograma - incident_day", col="darkgreen")
```



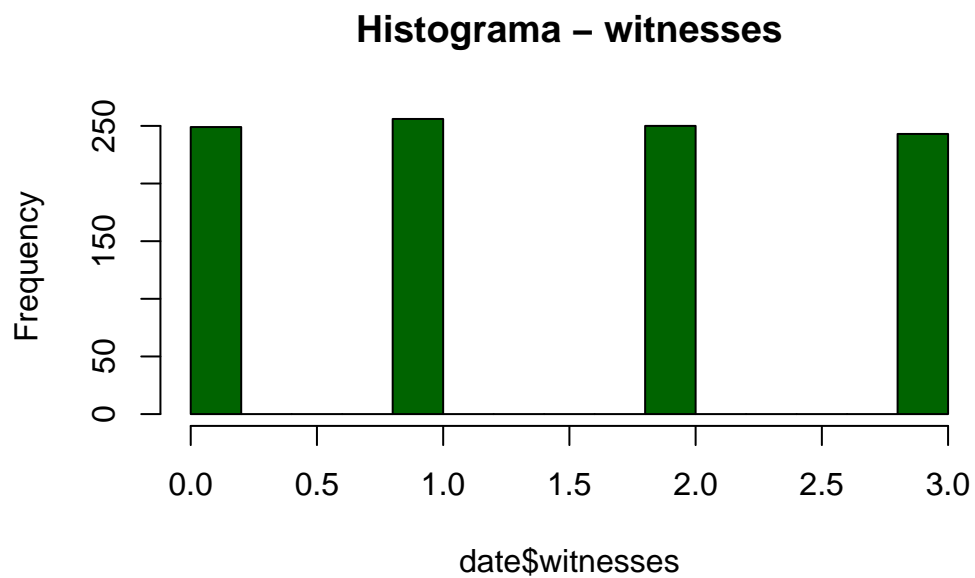
```
hist(date$number_of_vehicles_involved, main="Histograma - number_of_vehicles_involved", col="darkgreen")
```



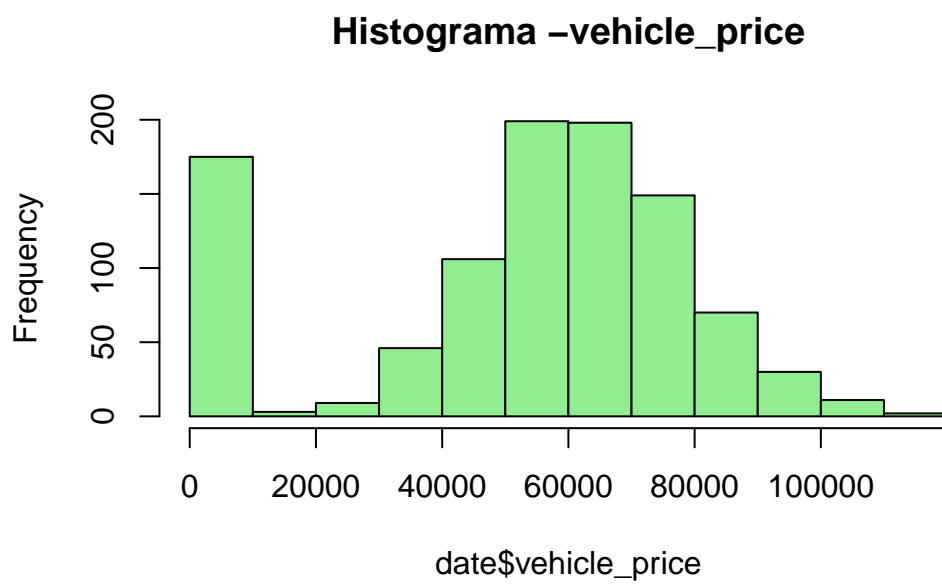
```
hist(date$bodily_injuries, main="Histograma -bodily_injuries", col="lightgreen")
```



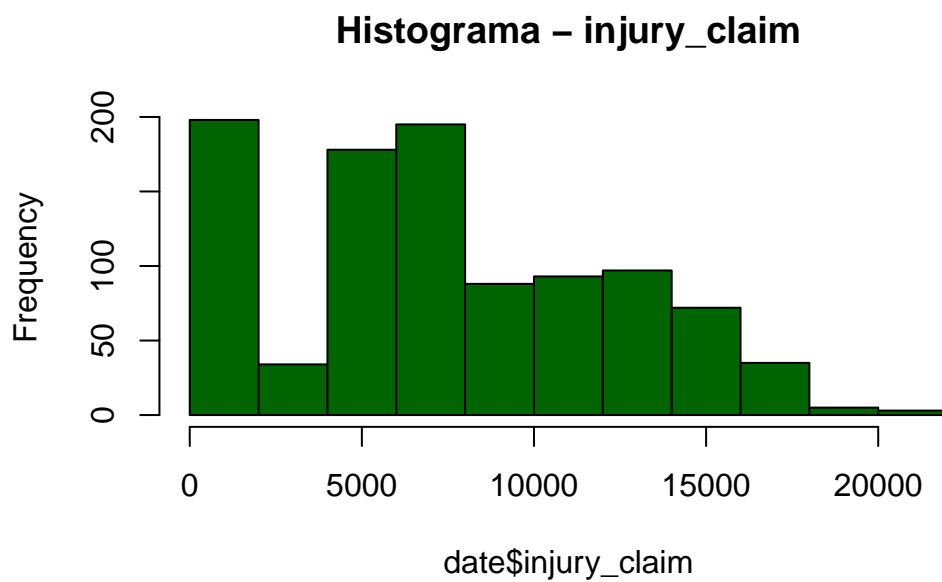
```
hist(date$witnesses, main="Histograma - witnesses", col="darkgreen")
```



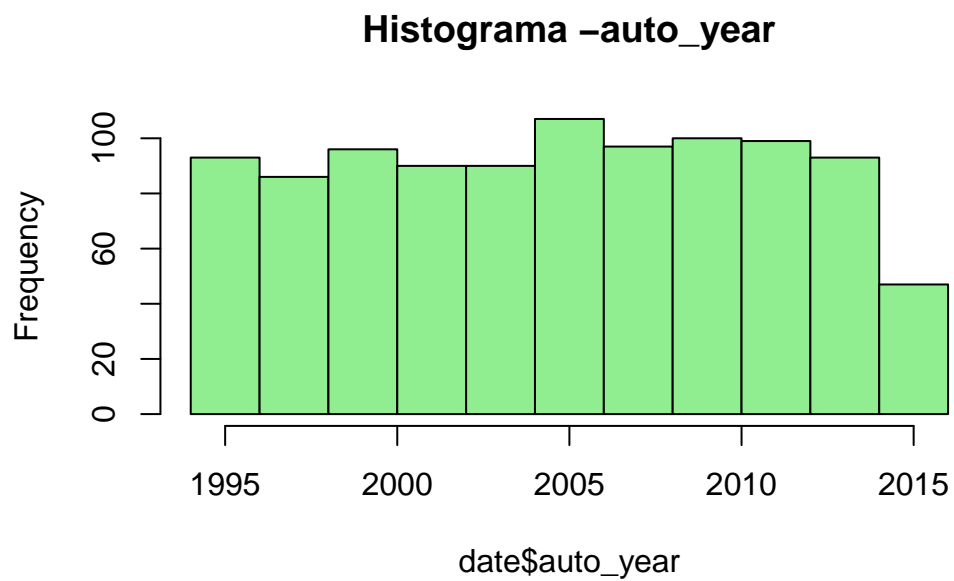
```
hist(date$vehicle_price, main="Histograma -vehicle_price", col="lightgreen")
```



```
hist(date$injury_claim, main="Histograma - injury_claim", col="darkgreen")
```

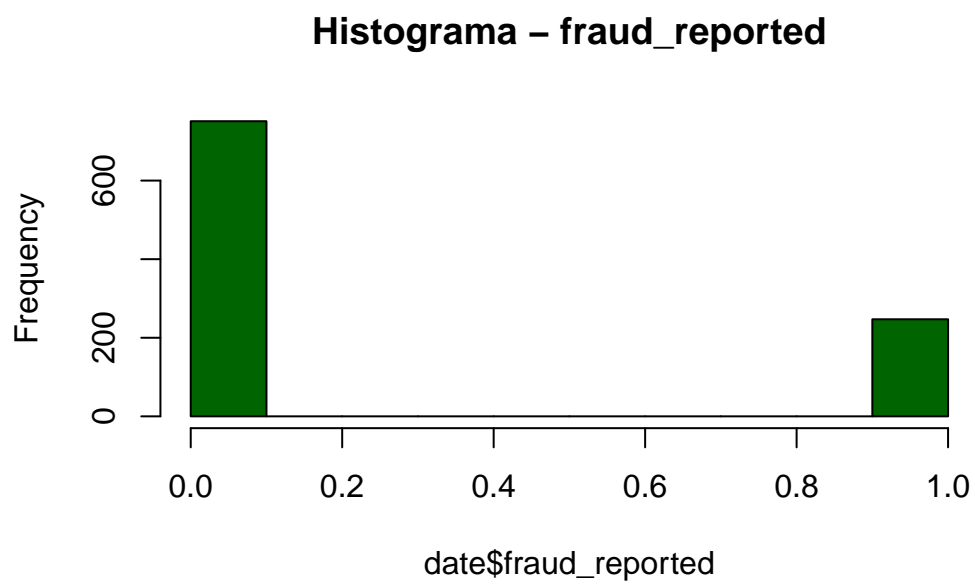


```
hist(date$auto_year, main="Histograma -auto_year", col="lightgreen")
```

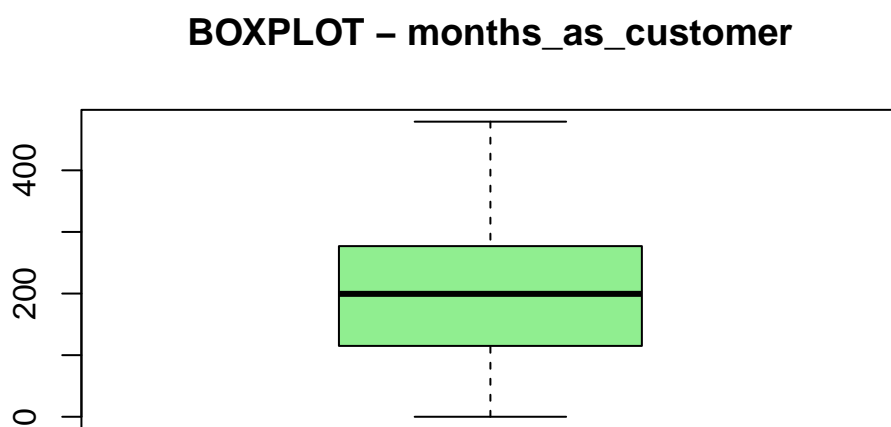


```
hist(date$fraud_reported, main="Histograma - fraud_reported", col="darkgreen")
```

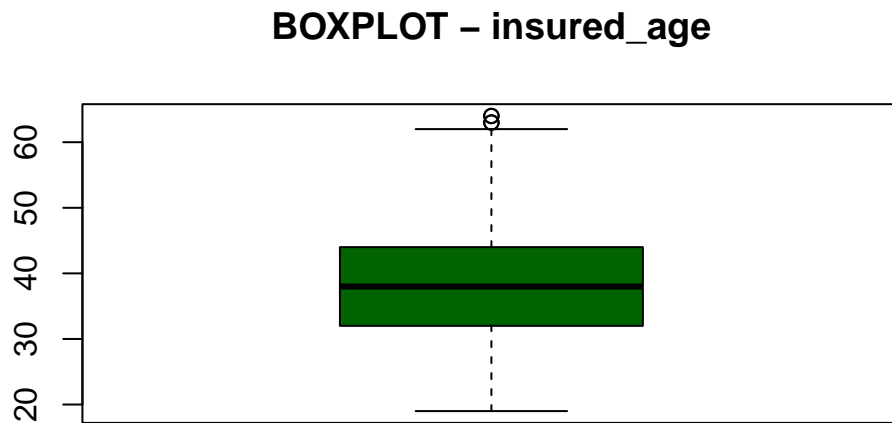




```
# Boxploturi  
boxplot(date$months_as_customer, main="BOXPLOT - months_as_customer", col="lightgreen")
```

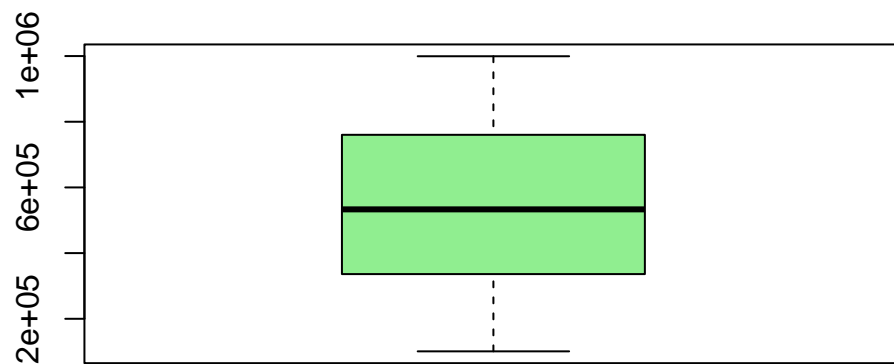


```
boxplot(date$insured_age, main="BOXPLOT - insured_age", col="darkgreen")
```



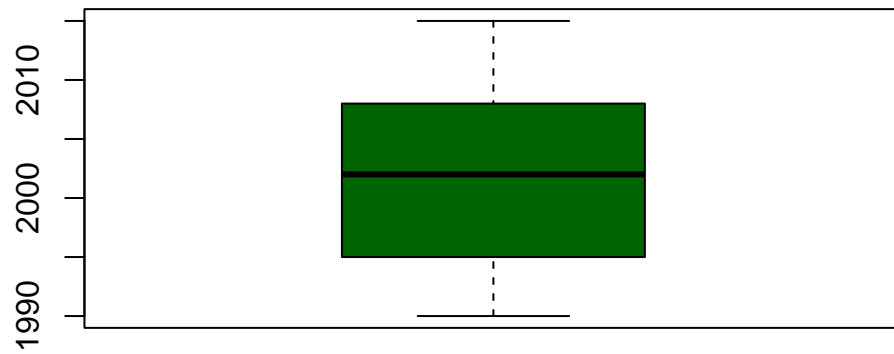
```
boxplot(date$policy_number, main="BOXPLOT - policy_number", col="lightgreen")
```

**BOXPLOT – policy\_number**

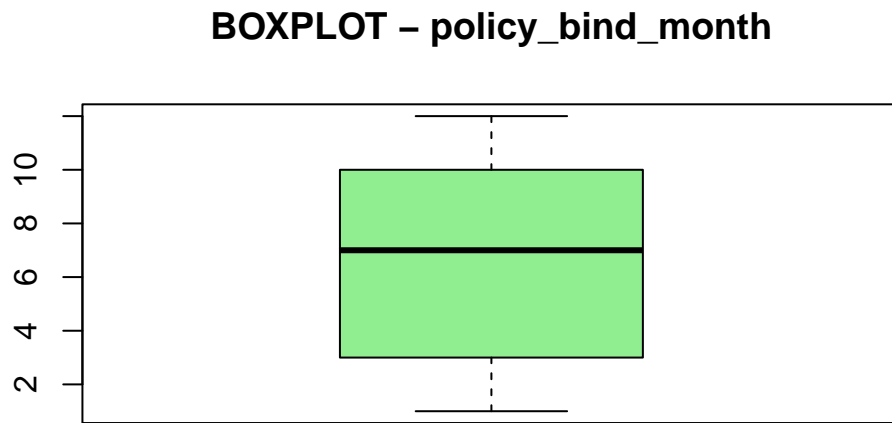


```
boxplot(date$policy_bind_year, main="BOXPLOT – policy_bind_year", col="darkgreen")
```

**BOXPLOT – policy\_bind\_year**

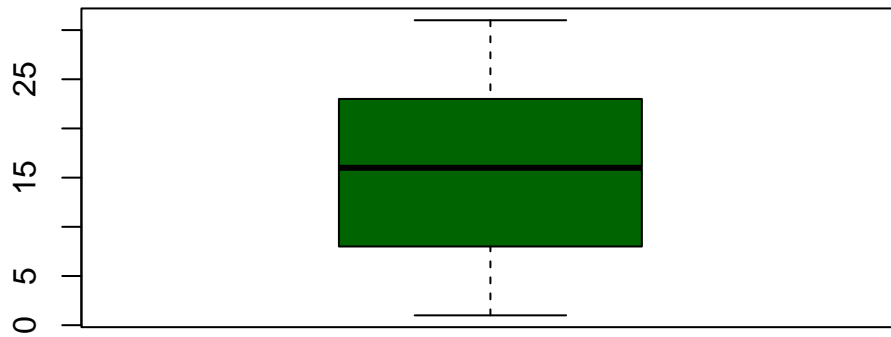


```
boxplot(date$policy_bind_month, main="BOXPLOT - policy_bind_month",  
col="lightgreen")
```



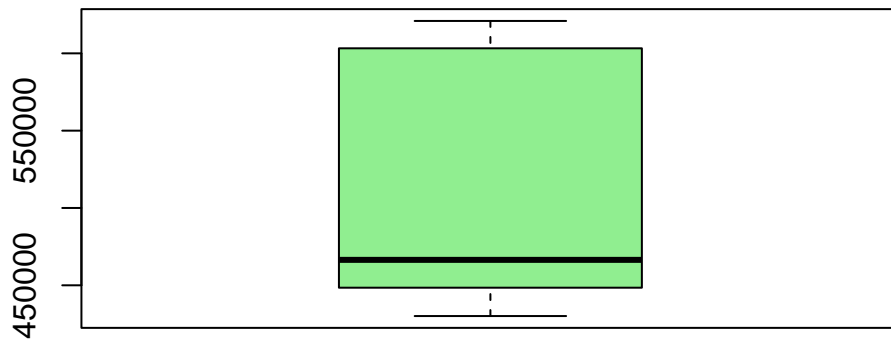
```
boxplot(date$policy_bind_day, main="BOXPLOT - policy_bind_day", col="darkgreen")
```

**BOXPLOT – policy\_bind\_day**

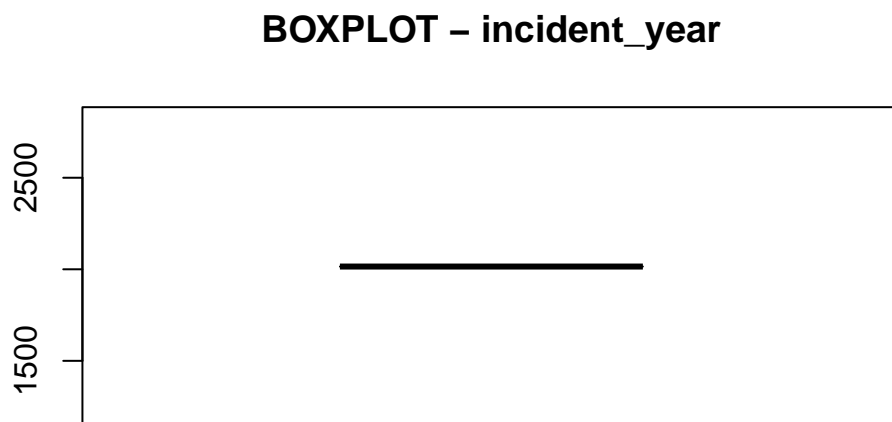


```
boxplot(date$insured_cod, main="BOXPLOT – insured_cod", col="lightgreen")
```

**BOXPLOT – insured\_cod**

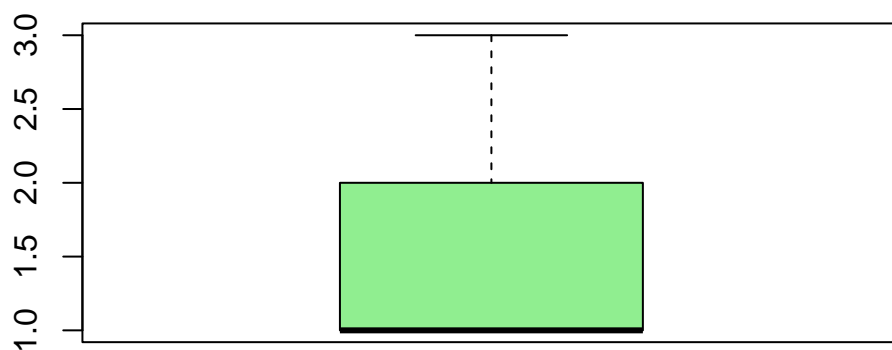


```
boxplot(date$incident_year, main="BOXPLOT - incident_year", col="darkgreen")
```



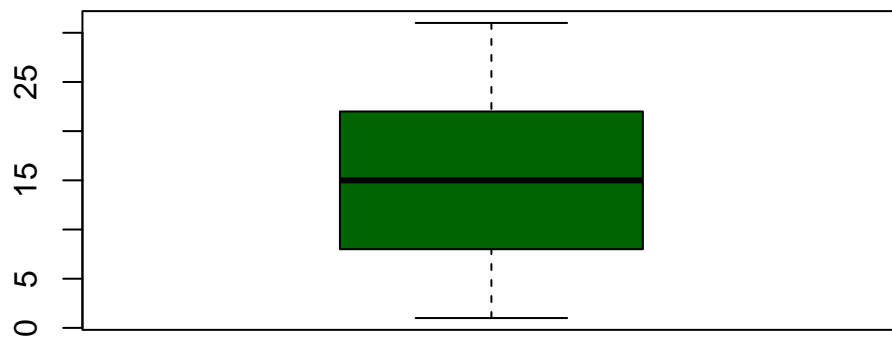
```
boxplot(date$incident_month, main="BOXPLOT - incident_month", col="lightgreen")
```

**BOXPLOT – incident\_month**

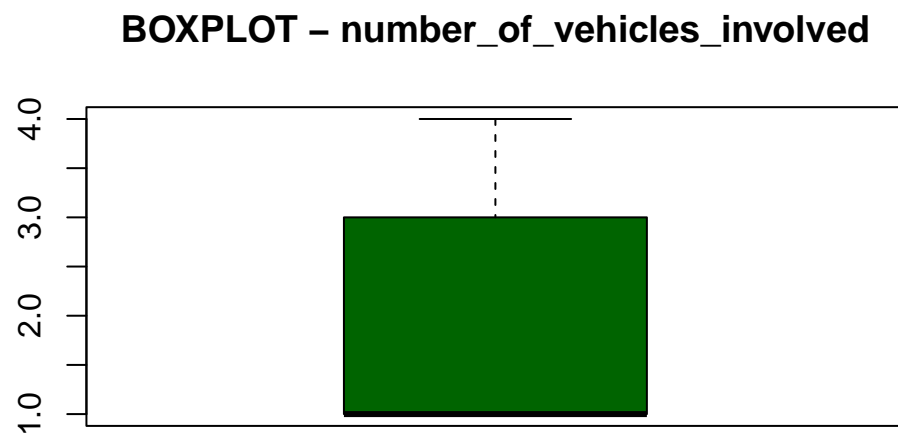


```
boxplot(date$incident_day, main="BOXPLOT – incident_day", col="darkgreen")
```

**BOXPLOT – incident\_day**



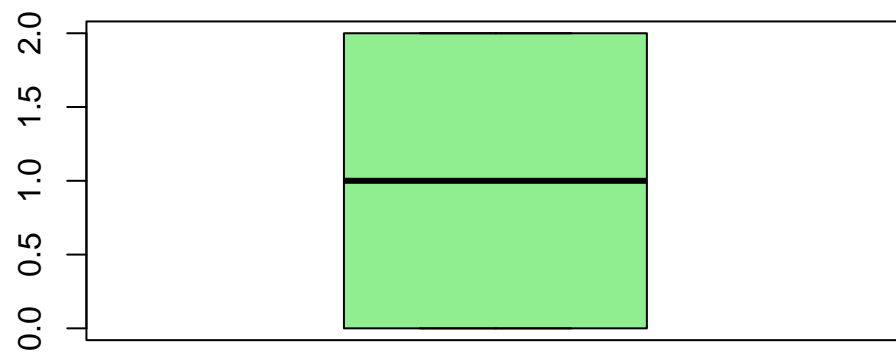
```
boxplot(date$number_of_vehicles_involved, main="BOXPLOT - number_of_vehicles_involved", col="darkgreen")
```



```
boxplot(date$bodily_injuries, main="BOXPLOT -bodily_injuries", col="lightgreen")
```

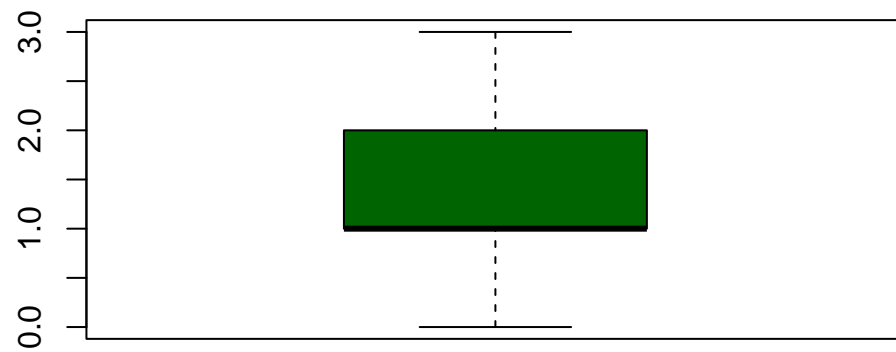


**BOXPLOT –bodily\_injuries**

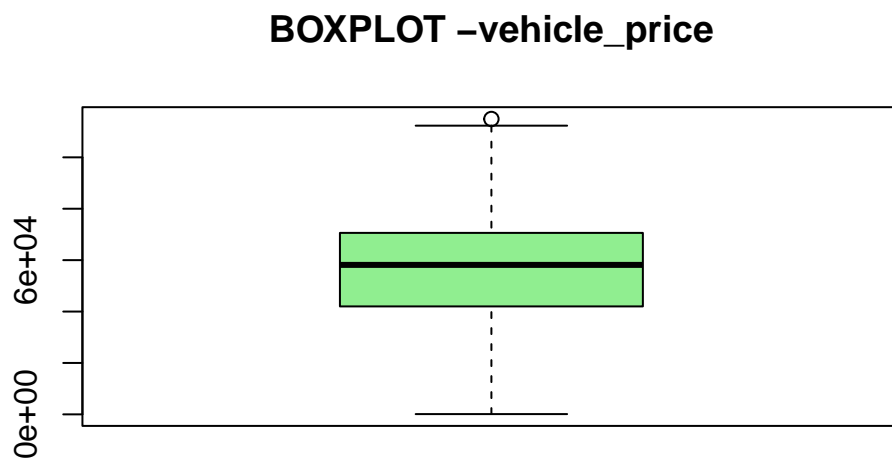


```
boxplot(date$witnesses, main="BOXPLOT - witnesses", col="darkgreen")
```

**BOXPLOT – witnesses**

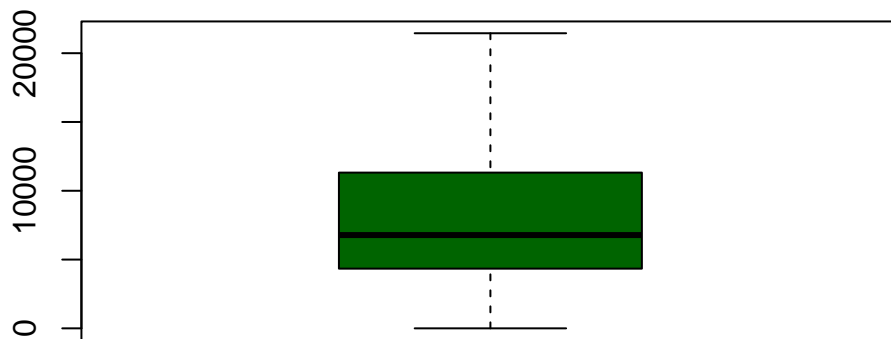


```
boxplot(date$vehicle_price, main="BOXPLOT -vehicle_price", col="lightgreen")
```



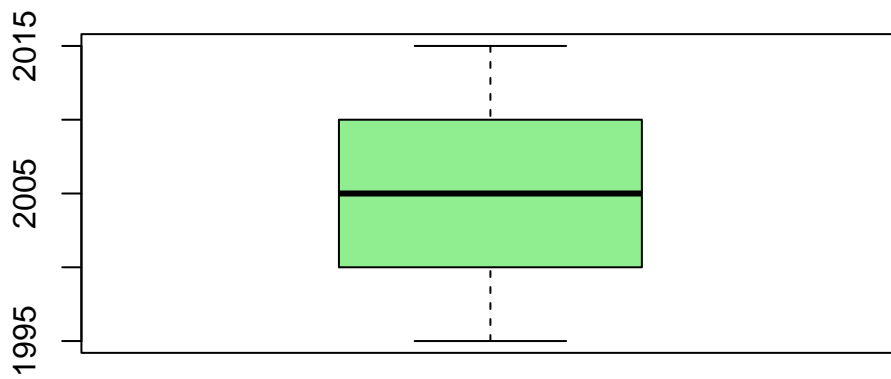
```
boxplot(date$injury_claim, main="BOXPLOT - injury_claim", col="darkgreen")
```

**BOXPLOT – injury\_claim**

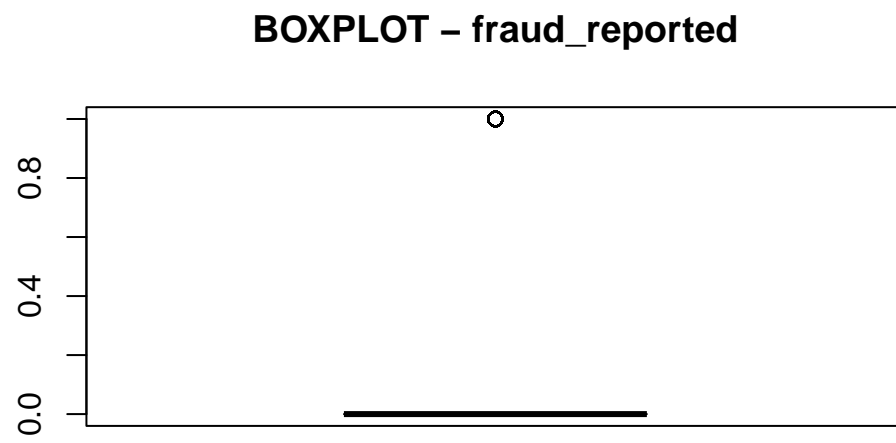


```
boxplot(date$auto_year, main="BOXPLOT -auto_year", col="lightgreen")
```

**BOXPLOT –auto\_year**



```
boxplot(date$fraud_reported, main="BOXPLOT - fraud_reported", col="darkgreen")
```

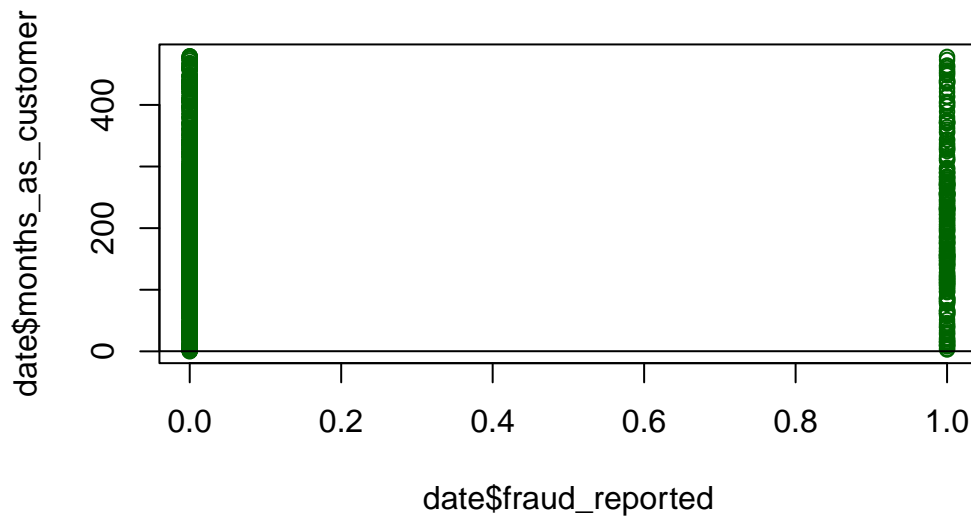


```
# Ploturi  
plot(date$insured_age, date$insured_cod, main="PLOT", col="green")
```



```
plot(date$fraud_reported, date$months_as_customer, main="PLOT - Dependenta fraud_reported",  
      col="darkgreen")  
abline(lm(date$fraud_reported~date$months_as_customer))
```

## PLOT – Dependenta fraud\_reported si months\_as\_custom



```
library(ggplot2)
ggplot(date, aes(x=date$insured_age, y=months_as_customer))+
  geom_point() +
  geom_text(label= date$insured_cod,
            nudge_x=0.25, nudge_y=0.25,
            check_overlap=T)
```

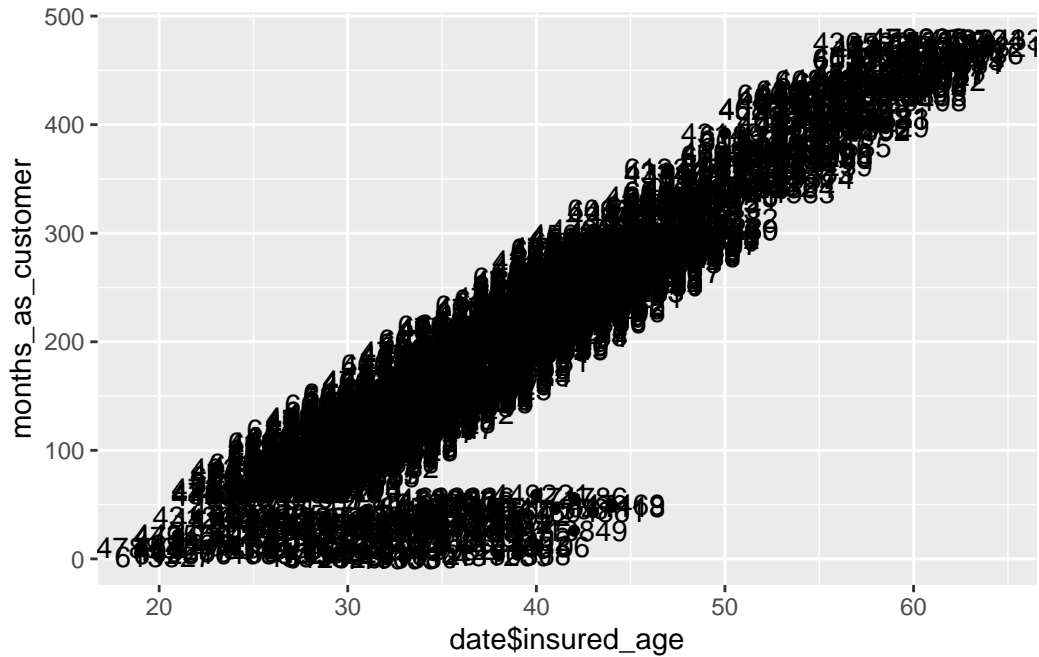
Warning in geom\_text(label = date\$insured\_cod, nudge\_x = 0.25, nudge\_y = 0.25, :  
Ignoring unknown parameters: `check\_overlap`

Warning: Use of `date\$insured\_age` is discouraged.

i Use `insured\_age` instead.

Use of `date\$insured\_age` is discouraged.

i Use `insured\_age` instead.



```
#Matrice de corelatie si covarianta
library(corrplot)
```

```
corrplot 0.92 loaded
```

```
corelatie <- cor(date)
```

```
Warning in cor(date): the standard deviation is zero
```

```
corelatie
```

	insured_cod	months_as_customer	insured_age
insured_cod	1.0000000000	0.0182740752	0.026097987
months_as_customer	0.0182740752	1.0000000000	0.922082353
insured_age	0.0260979869	0.9220823528	1.000000000
policy_number	0.0057955509	0.0585555116	0.060539574
policy_bind_year	0.0001139187	-0.0483829134	-0.037673049
policy_bind_month	0.0261096054	-0.0015973222	0.008301699
policy_bind_day	-0.0453978771	0.0548191860	0.056912945

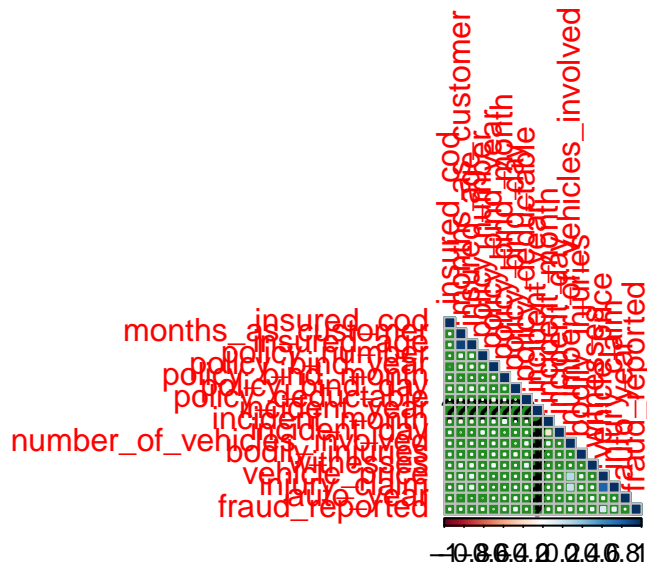
policy_deductable	0.0039024572	0.0267663664	0.029224431
incident_year	NA	NA	NA
incident_month	-0.0313662354	-0.0431659317	-0.037531910
incident_day	0.0265882043	-0.0007978160	0.004397009
number_of_vehicles_involved	0.0263591336	0.0149996595	0.022491817
bodily_injuries	0.0275974191	-0.0096099131	-0.015021707
witnesses	0.0192227196	0.0585349880	0.052574524
vehicle_price	-0.0358827947	0.0608795258	0.069092576
injury_claim	-0.0195867439	0.0659605892	0.076397270
auto_year	-0.0336874553	-0.0002125182	0.001535593
fraud_reported	0.0186044705	0.0207278154	0.012407207
	policy_number	policy_bind_year	policy_bind_month
insured_cod	0.0057955509	0.0001139187	0.026109605
months_as_customer	0.0585555116	-0.0483829134	-0.001597322
insured_age	0.0605395741	-0.0376730486	0.008301699
policy_number	1.0000000000	-0.0402968893	-0.003319089
policy_bind_year	-0.0402968893	1.0000000000	-0.029636698
policy_bind_month	-0.0033190887	-0.0296366976	1.0000000000
policy_bind_day	0.0462073037	0.0107534458	0.031168726
policy_deductable	-0.0063979187	-0.0479447077	-0.024874689
incident_year	NA	NA	NA
incident_month	-0.0315945204	0.0435832402	0.075051597
incident_day	0.0523610798	0.0325589474	0.002488433
number_of_vehicles_involved	0.0126404597	0.0284253832	-0.026759378
bodily_injuries	-0.0066402384	0.0307622623	-0.025160938
witnesses	-0.0131233255	0.0569393710	0.018842105
vehicle_price	-0.0166123927	0.0053451230	0.015944210
injury_claim	-0.0103789275	0.0056998629	-0.008418117
auto_year	-0.0003469237	0.0170828922	-0.030091678
fraud_reported	-0.0300747467	0.0011746488	-0.035047616
	policy_bind_day	policy_deductable	incident_year
insured_cod	-0.045397877	0.003902457	NA
months_as_customer	0.054819186	0.026766366	NA
insured_age	0.056912945	0.029224431	NA
policy_number	0.046207304	-0.006397919	NA
policy_bind_year	0.010753446	-0.047944708	NA
policy_bind_month	0.031168726	-0.024874689	NA
policy_bind_day	1.000000000	-0.002065756	NA
policy_deductable	-0.002065756	1.000000000	NA
incident_year	NA	NA	1
incident_month	0.006488576	-0.025235651	NA
incident_day	0.010037123	-0.021769820	NA
number_of_vehicles_involved	-0.002338005	0.050234935	NA



bodily_injuries	-0.046208037	-0.023055029	NA
witnesses	-0.009413971	0.066134152	NA
vehicle_price	0.013843227	0.020542668	NA
injury_claim	0.021969473	0.037368433	NA
auto_year	0.034752867	0.024962652	NA
fraud_reported	0.061982219	0.014105537	NA
	incident_month	incident_day	
insured_cod	-0.031366235	0.026588204	
months_as_customer	-0.043165932	-0.000797816	
insured_age	-0.037531910	0.004397009	
policy_number	-0.031594520	0.052361080	
policy_bind_year	0.043583240	0.032558947	
policy_bind_month	0.075051597	0.002488433	
policy_bind_day	0.006488576	0.010037123	
policy_deductable	-0.025235651	-0.021769820	
incident_year	NA	NA	
incident_month	1.000000000	-0.140504782	
incident_day	-0.140504782	1.000000000	
number_of_vehicles_involved	0.053934210	-0.013276514	
bodily_injuries	0.003419894	-0.022289464	
witnesses	0.013671337	0.003841335	
vehicle_price	-0.035554773	-0.033006644	
injury_claim	-0.017858580	-0.026641751	
auto_year	-0.017005925	0.008126037	
fraud_reported	-0.027777140	-0.045959072	
	number_of_vehicles_involved	bodily_injuries	
insured_cod	0.026359134	0.027597419	
months_as_customer	0.014999660	-0.009609913	
insured_age	0.022491817	-0.015021707	
policy_number	0.012640460	-0.006640238	
policy_bind_year	0.028425383	0.030762262	
policy_bind_month	-0.026759378	-0.025160938	
policy_bind_day	-0.002338005	-0.046208037	
policy_deductable	0.050234935	-0.023055029	
incident_year	NA	NA	
incident_month	0.053934210	0.003419894	
incident_day	-0.013276514	-0.022289464	
number_of_vehicles_involved	1.000000000	0.013057605	
bodily_injuries	0.013057605	1.000000000	
witnesses	-0.015405994	-0.006138595	
vehicle_price	0.272204110	0.047045863	
injury_claim	0.222845004	0.045619301	
auto_year	0.033334091	-0.021173087	

fraud_reported		0.050944476	0.033223143
	witnesses	vehicle_price	injury_claim
insured_cod	0.019222720	-0.035882795	-0.019586744
months_as_customer	0.058534988	0.060879526	0.065960589
insured_age	0.052574524	0.069092576	0.076397270
policy_number	-0.013123325	-0.016612393	-0.010378928
policy_bind_year	0.056939371	0.005345123	0.005699863
policy_bind_month	0.018842105	0.015944210	-0.008418117
policy_bind_day	-0.009413971	0.013843227	0.021969473
policy_deductable	0.066134152	0.020542668	0.037368433
incident_year	NA	NA	NA
incident_month	0.013671337	-0.035554773	-0.017858580
incident_day	0.003841335	-0.033006644	-0.026641751
number_of_vehicles_involved	-0.015405994	0.272204110	0.222845004
bodily_injuries	-0.006138595	0.047045863	0.045619301
witnesses	1.000000000	-0.012832008	-0.026209093
vehicle_price	-0.012832008	1.000000000	0.804147079
injury_claim	-0.026209093	0.804147079	1.000000000
auto_year	0.045156884	-0.036526609	-0.016017996
fraud_reported	0.049019020	0.162046218	0.089499786
	auto_year	fraud_reported	
insured_cod	-0.0336874553	0.018604471	
months_as_customer	-0.0002125182	0.020727815	
insured_age	0.0015355926	0.012407207	
policy_number	-0.0003469237	-0.030074747	
policy_bind_year	0.0170828922	0.001174649	
policy_bind_month	-0.0300916776	-0.035047616	
policy_bind_day	0.0347528666	0.061982219	
policy_deductable	0.0249626518	0.014105537	
incident_year	NA	NA	
incident_month	-0.0170059250	-0.027777140	
incident_day	0.0081260372	-0.045959072	
number_of_vehicles_involved	0.0333340915	0.050944476	
bodily_injuries	-0.0211730873	0.033223143	
witnesses	0.0451568835	0.049019020	
vehicle_price	-0.0365266094	0.162046218	
injury_claim	-0.0160179964	0.089499786	
auto_year	1.0000000000	0.007056479	
fraud_reported	0.0070564790	1.000000000	

```
corrplot(corelatie,method="square",type="lower",bg="forestgreen")
```



```
covariance<-cov(date)
covariance
```

	insured_cod	months_as_customer	insured_age
insured_cod	5.145984e+09	1.510353e+05	1.712645e+04
months_as_customer	1.510353e+05	1.327448e+04	9.718620e+02
insured_age	1.712645e+04	9.718620e+02	8.368592e+01
policy_number	1.067988e+08	1.733062e+06	1.422666e+05
policy_bind_year	6.012638e+01	-4.101440e+01	-2.535669e+00
policy_bind_month	6.561588e+03	-6.447268e-01	2.660527e-01
policy_bind_day	-2.867229e+04	5.560756e+01	4.583844e+00
policy_deductable	1.713629e+05	1.887742e+03	1.636503e+02
incident_year	0.000000e+00	0.000000e+00	0.000000e+00
incident_month	-1.178441e+03	-2.604720e+00	-1.798200e-01
incident_day	1.653497e+04	-7.968776e-01	3.487095e-01
number_of_vehicles_involved	1.927206e+03	1.761379e+00	2.097073e-01
bodily_injuries	1.624054e+03	-9.082930e-01	-1.127310e-01
witnesses	1.533718e+03	7.501029e+00	5.349314e-01
vehicle_price	-6.780596e+07	1.847683e+05	1.664964e+04
injury_claim	-6.849780e+06	3.704874e+04	3.407095e+03
auto_year	-1.454297e+04	-1.473519e-01	8.453818e-02
fraud_reported	5.762449e+02	1.031141e+00	4.900674e-02

	policy_number	policy_bind_year	policy_bind_month
insured_cod	1.067988e+08	6.012638e+01	6.561588e+03
months_as_customer	1.733062e+06	-4.101440e+01	-6.447268e-01
insured_age	1.422666e+05	-2.535669e+00	2.660527e-01
policy_number	6.598954e+10	-7.616312e+04	-2.986970e+03
policy_bind_year	-7.616312e+04	5.413414e+01	-7.639059e-01
policy_bind_month	-2.986970e+03	-7.639059e-01	1.227295e+01
policy_bind_day	1.045059e+05	6.965878e-01	9.613600e-01
policy_deductable	-1.006053e+06	-2.159339e+02	-5.334289e+01
incident_year	0.000000e+00	0.000000e+00	0.000000e+00
incident_month	-4.250701e+03	1.679447e-01	1.377037e-01
incident_day	1.166075e+05	2.076759e+00	7.557542e-02
number_of_vehicles_involved	3.309506e+03	2.131595e-01	-9.554616e-02
bodily_injuries	-1.399326e+03	1.856743e-01	-7.231012e-02
witnesses	-3.749540e+03	4.659560e-01	7.341765e-02
vehicle_price	-1.124131e+08	1.035955e+03	1.471380e+03
injury_claim	-1.299781e+07	2.044467e+02	-1.437704e+02
auto_year	-5.363178e+02	7.563934e-01	-6.344123e-01
fraud_reported	-3.335763e+03	3.731636e-03	-5.301375e-02
	policy_bind_day	policy_deductable	incident_year
insured_cod	-2.867229e+04	1.713629e+05	0
months_as_customer	5.560756e+01	1.887742e+03	0
insured_age	4.583844e+00	1.636503e+02	0
policy_number	1.045059e+05	-1.006053e+06	0
policy_bind_year	6.965878e-01	-2.159339e+02	0
policy_bind_month	9.613600e-01	-5.334289e+01	0
policy_bind_day	7.751489e+01	-1.113310e+01	0
policy_deductable	-1.113310e+01	3.747045e+05	0
incident_year	0.000000e+00	0.000000e+00	0
incident_month	2.991942e-02	-8.090403e+00	0
incident_day	7.660939e-01	-1.155259e+02	0
number_of_vehicles_involved	-2.097977e-02	3.134102e+01	0
bodily_injuries	-3.337397e-01	-1.157732e+01	0
witnesses	-9.218537e-02	4.502636e+01	0
vehicle_price	3.210534e+03	3.312445e+05	0
injury_claim	9.429580e+02	1.115140e+05	0
auto_year	1.841340e+00	9.195723e+01	0
fraud_reported	2.356217e-01	3.728118e+00	0
	incident_month	incident_day	
insured_cod	-1.178441e+03	1.653497e+04	
months_as_customer	-2.604720e+00	-7.968776e-01	
insured_age	-1.798200e-01	3.487095e-01	
policy_number	-4.250701e+03	1.166075e+05	

policy_bind_year	1.679447e-01	2.076759e+00
policy_bind_month	1.377037e-01	7.557542e-02
policy_bind_day	2.991942e-02	7.660939e-01
policy_deductable	-8.090403e+00	-1.155259e+02
incident_year	0.000000e+00	0.000000e+00
incident_month	2.742978e-01	-6.379439e-01
incident_day	-6.379439e-01	7.515543e+01
number_of_vehicles_involved	2.878978e-02	-1.173078e-01
bodily_injuries	1.469338e-03	-1.585176e-01
witnesses	7.963771e-03	3.703897e-02
vehicle_price	-4.905197e+02	-7.537528e+03
injury_claim	-4.559721e+01	-1.125960e+03
auto_year	-5.359968e-02	4.239452e-01
fraud_reported	-6.281369e-03	-1.720311e-01
	number_of_vehicles_involved	bodily_injuries
insured_cod	1927.20590931	1.624054e+03
months_as_customer	1.76137933	-9.082930e-01
insured_age	0.20970728	-1.127310e-01
policy_number	3309.50613263	-1.399326e+03
policy_bind_year	0.21315952	1.856743e-01
policy_bind_month	-0.09554616	-7.231012e-02
policy_bind_day	-0.02097977	-3.337397e-01
policy_deductable	31.34101704	-1.157732e+01
incident_year	0.00000000	0.000000e+00
incident_month	0.02878978	1.469338e-03
incident_day	-0.11730784	-1.585176e-01
number_of_vehicles_involved	1.03878469	1.091752e-02
bodily_injuries	0.01091752	6.729698e-01
witnesses	-0.01746422	-5.600971e-03
vehicle_price	7308.10558228	1.016639e+03
injury_claim	1107.25036834	1.824427e+02
auto_year	0.20445706	-1.045280e-01
fraud_reported	0.02241896	1.176777e-02
	witnesses	vehicle_price
insured_cod	1.533718e+03	-6.780596e+07
months_as_customer	7.501029e+00	1.847683e+05
insured_age	5.349314e-01	1.664964e+04
policy_number	-3.749540e+03	-1.124131e+08
policy_bind_year	4.659560e-01	1.035955e+03
policy_bind_month	7.341765e-02	1.471380e+03
policy_bind_day	-9.218537e-02	3.210534e+03
policy_deductable	4.502636e+01	3.312445e+05
incident_year	0.000000e+00	0.000000e+00
		injury_claim
insured_cod	1.533718e+03	-6.849780e+06
months_as_customer	7.501029e+00	3.704874e+04
insured_age	5.349314e-01	3.407095e+03
policy_number	-3.749540e+03	-1.299781e+07
policy_bind_year	4.659560e-01	2.044467e+02
policy_bind_month	7.341765e-02	-1.437704e+02
policy_bind_day	-9.218537e-02	9.429580e+02
policy_deductable	4.502636e+01	1.115140e+05
incident_year	0.000000e+00	0.000000e+00

incident_month	7.963771e-03	-4.905197e+02	-4.559721e+01
incident_day	3.703897e-02	-7.537528e+03	-1.125960e+03
number_of_vehicles_involved	-1.746422e-02	7.308106e+03	1.107250e+03
bodily_injuries	-5.600971e-03	1.016639e+03	1.824427e+02
witnesses	1.237067e+00	-3.759574e+02	-1.421113e+02
vehicle_price	-3.759574e+02	6.938966e+08	1.032673e+08
injury_claim	-1.421113e+02	1.032673e+08	2.376623e+07
auto_year	3.022535e-01	-5.790385e+03	-4.699364e+02
fraud_reported	2.354056e-02	1.843070e+03	1.883900e+02
	auto_year	fraud_reported	
insured_cod	-1.454297e+04	5.762449e+02	
months_as_customer	-1.473519e-01	1.031141e+00	
insured_age	8.453818e-02	4.900674e-02	
policy_number	-5.363178e+02	-3.335763e+03	
policy_bind_year	7.563934e-01	3.731636e-03	
policy_bind_month	-6.344123e-01	-5.301375e-02	
policy_bind_day	1.841340e+00	2.356217e-01	
policy_deductable	9.195723e+01	3.728118e+00	
incident_year	0.000000e+00	0.000000e+00	
incident_month	-5.359968e-02	-6.281369e-03	
incident_day	4.239452e-01	-1.720311e-01	
number_of_vehicles_involved	2.044571e-01	2.241896e-02	
bodily_injuries	-1.045280e-01	1.176777e-02	
witnesses	3.022535e-01	2.354056e-02	
vehicle_price	-5.790385e+03	1.843070e+03	
injury_claim	-4.699364e+02	1.883900e+02	
auto_year	3.621608e+01	1.833557e-02	
fraud_reported	1.833557e-02	1.864280e-01	

```
# METODA ACP
# Standardizare
date_standardizate<-scale(date[-1],scale=TRUE )
date_standardizate
```

	months_as_customer	insured_age	policy_number	policy_bind_year
[1,]	1.0769539397	0.989955357	-0.096968959	1.68694127
[2,]	0.2090107971	0.334074335	-0.792679068	0.59962884
[3,]	-0.6068557570	-1.087001213	0.549676258	-0.21585549
[4,]	0.4520348770	0.224760831	-1.240573325	-1.57499603
[5,]	0.2090107971	0.552701342	-0.696966716	1.68694127
[6,]	0.4520348770	0.006133824	-1.720232857	0.59962884

[7,]	-0.5808174627	-0.540433694	-0.515861833	-0.21585549
[8,]	-0.3377933828	-0.212493183	-0.457279037	-1.57499603
[9,]	-1.5355549196	-0.649747198	-0.236798450	-0.62359765
[10,]	0.0701398942	0.334074335	0.350567160	1.27919911
[11,]	0.2697668170	0.334074335	-0.011229969	0.05597262
[12,]	2.1098062794	2.411030904	-1.291931078	-0.35176954
[13,]	-1.2491336825	-1.742882235	1.152846649	-0.62359765
[14,]	-0.7196883655	-0.540433694	0.312643471	1.41511316
[15,]	-0.2076019114	-0.103179680	0.379883861	-0.48768360
[16,]	2.3354714965	2.083090393	1.348386047	-1.30316792
[17,]	-1.1623393683	-1.414941724	0.048438919	0.46371478
[18,]	-0.5547791684	-0.868374205	-1.055844242	0.32780073
[19,]	-0.3811905399	-0.212493183	1.458661376	1.68694127
[20,]	-0.0687310086	0.006133824	-1.566942052	-1.30316792
[21,]	2.2226388879	2.520344408	-1.413339824	0.05597262
[22,]	0.1135370514	0.224760831	-0.446188441	0.46371478
[23,]	1.4414900596	1.755149882	-1.016016973	-1.03133981
[24,]	1.8147056109	1.755149882	-1.678171118	-1.43908198
[25,]	0.2871256799	0.115447328	0.741139890	-0.75951170
[26,]	-1.7004641167	-0.431120191	0.593844003	1.55102722
[27,]	0.4607143084	0.443387839	1.233011145	-1.57499603
[28,]	-0.0166544200	-0.540433694	0.241424637	0.05597262
[29,]	0.1742930714	0.115447328	1.430967974	-1.57499603
[30,]	0.3218434056	0.662014846	0.195769841	1.68694127
[31,]	-1.2144159568	-1.524255227	1.409666554	-0.21585549
[32,]	-0.3291139514	-0.212493183	0.466506518	0.87145695
[33,]	-0.4245876970	-0.431120191	-0.817024659	0.19188668
[34,]	-0.7804443855	-0.977687709	0.149344270	-1.30316792
[35,]	-0.4766642856	-0.212493183	1.728397602	-1.43908198
[36,]	-0.4940231485	-0.649747198	-1.621830577	1.14328506
[37,]	-1.2317748197	-1.196314716	-1.348244369	0.19188668
[38,]	0.7384561141	1.099268860	1.505729259	-1.16725387
[39,]	1.9709353766	1.645836379	-0.236802343	0.05597262
[40,]	-0.0426927143	-0.212493183	1.698726656	-0.62359765
[41,]	-1.0842244854	-1.414941724	-1.324650089	-0.89542576
[42,]	-0.7630855227	-0.540433694	0.271881929	1.41511316
[43,]	-1.4487606053	-1.742882235	-0.379679898	0.59962884
[44,]	-0.8498798369	-0.977687709	0.949638430	0.19188668
[45,]	0.5648674855	0.552701342	-1.703688443	0.73554289
[46,]	0.5301497598	0.115447328	-0.453378449	0.59962884
[47,]	-0.3551522456	-0.649747198	-0.067667830	-1.57499603
[48,]	1.3112985882	0.880641853	1.530401846	-1.57499603
[49,]	-0.2509990685	-0.540433694	1.247395053	0.87145695

[50,]	-0.1034487343	-0.431120191	0.138257567	-0.62359765
[51,]	1.9622559451	2.192403897	0.563266034	0.32780073
[52,]	-0.9800713083	-1.305628220	-0.034835927	-1.03133981
[53,]	0.1135370514	0.006133824	-0.589836772	0.05597262
[54,]	0.1656136399	0.115447328	0.712924853	-1.03133981
[55,]	-0.0774104400	0.006133824	-1.028867116	1.68694127
[56,]	-1.5789520767	-1.414941724	-0.489266201	0.73554289
[57,]	2.0403708280	1.864463386	-0.084313456	0.87145695
[58,]	-0.9540330140	-0.759060702	-0.931547036	-0.89542576
[59,]	-1.6744258224	0.006133824	0.300342213	-1.16725387
[60,]	-0.4593054228	-0.321806687	-0.237939041	0.46371478
[61,]	-0.4332671285	-0.540433694	0.202656210	-1.57499603
[62,]	0.3565611313	0.552701342	-0.944035149	-1.16725387
[63,]	-0.7370472284	-0.759060702	-0.791538477	1.68694127
[64,]	0.0961781885	0.334074335	-0.105817301	0.87145695
[65,]	0.7905327026	0.334074335	-1.610035384	0.73554289
[66,]	0.4346760141	0.006133824	-0.831610993	-1.16725387
[67,]	-0.8412004055	-0.868374205	-0.739262022	1.27919911
[68,]	2.3788686536	2.738971415	-0.780479023	-1.57499603
[69,]	-0.6589323456	-0.977687709	-0.178920252	-1.03133981
[70,]	1.1637482539	1.099268860	-0.771887606	-1.03133981
[71,]	0.5822263484	0.334074335	-0.232862826	1.27919911
[72,]	0.1569342085	0.224760831	-1.111978464	-0.48768360
[73,]	-0.0426927143	0.224760831	0.430350162	-0.89542576
[74,]	0.0961781885	-0.212493183	0.835762258	0.05597262
[75,]	-0.1034487343	0.115447328	-1.445467129	0.32780073
[76,]	-0.7283677970	-0.431120191	-1.673106581	-0.07994143
[77,]	0.5735469170	0.662014846	-1.480163684	1.14328506
[78,]	0.9988390568	0.880641853	-0.072210731	-1.30316792
[79,]	-0.0860898714	0.006133824	0.315493003	1.14328506
[80,]	0.2003313656	-0.103179680	-1.039661860	1.55102722
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[83,]	-1.0929039169	-1.087001213	0.576785740	1.27919911
[84,]	-0.0340132829	-0.431120191	1.612341460	-1.03133981
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[87,]	-0.4419465599	-0.540433694	0.979749262	0.59962884
[88,]	-0.6068557570	-0.759060702	0.265754657	-1.43908198
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[90,]	-1.4140428796	-1.524255227	1.605244880	-1.30316792
[91,]	-0.6676117770	-1.087001213	0.546242806	-0.35176954
[92,]	-1.2404542511	-1.742882235	-1.630075535	-1.16725387



[93,]	0.0267427371	0.334074335	1.448645193	-0.21585549
[94,]	0.1308959142	0.443387839	0.719994184	1.14328506
[95,]	0.5822263484	0.334074335	-0.930566050	-1.57499603
[96,]	-1.0755450540	-1.524255227	1.734828513	1.41511316
[97,]	1.0509156454	0.880641853	1.378570843	0.59962884
[98,]	-1.5181960567	-1.524255227	-1.211731546	1.68694127
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[103,]	0.6516617998	0.224760831	-0.612169784	-0.07994143
[104,]	-0.3377933828	-0.649747198	0.831830527	0.73554289
[105,]	1.2679014310	1.645836379	1.531468474	1.55102722
[106,]	0.7905327026	1.099268860	1.270296414	-1.30316792
[107,]	2.2573566136	2.411030904	0.335295693	-1.57499603
[108,]	-0.7457266598	-1.196314716	-1.024121789	-1.43908198
[109,]	0.8165709969	0.880641853	-1.492243052	-0.48768360
[110,]	-1.0147890340	-0.868374205	1.194565821	1.00737100
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[113,]	0.0527810314	0.224760831	-0.588692288	1.41511316
[114,]	-0.3117550885	-0.759060702	1.691922036	-0.21585549
[115,]	1.6150786881	1.317895868	-1.568288962	-0.35176954
[116,]	0.4693937398	0.771328350	0.396685200	-0.35176954
[117,]	-0.8412004055	-0.868374205	-1.524082289	-1.43908198
[118,]	0.1829725028	0.224760831	-0.840471013	-1.16725387
[119,]	-0.3464728142	-0.103179680	-0.884689364	-0.62359765
[120,]	0.3565611313	0.006133824	-0.057826823	-0.07994143
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[127,]	-0.3291139514	-0.103179680	-0.512743697	-1.30316792
[128,]	-0.3377933828	-0.759060702	-0.460381602	1.41511316
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[130,]	-1.0668656226	-1.196314716	-0.298269705	1.27919911
[131,]	0.6603412312	0.662014846	0.669302100	1.27919911
[132,]	-0.0860898714	0.006133824	0.286978220	0.46371478
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[136,]	-0.2857167942	-0.540433694	1.627823138	-0.62359765
[137,]	-0.0340132829	0.115447328	1.502650052	1.14328506
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[155,]	-0.8932769941	-0.649747198	0.110965124	1.41511316
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[159,]	-1.3793251539	-0.103179680	0.168380078	0.59962884
[160,]	-0.5894968941	-1.087001213	1.197138964	1.14328506
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[162,]	0.6429823684	0.989955357	-1.584412953	-0.35176954
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[279,]	-0.8325209741	-0.649747198	-0.131116629	-1.57499603
[280,]	-1.4921577625	-0.103179680	-0.738569104	1.14328506
[281,]	0.4780731713	0.006133824	-0.840801901	-0.89542576
[282,]	-0.1555253228	-0.649747198	0.905388936	1.14328506
[283,]	-0.0253338514	0.115447328	0.984903334	-1.43908198
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[285,]	-0.1294870286	-0.321806687	1.639886936	0.73554289
[286,]	-0.8585592684	-0.649747198	1.105241559	-0.75951170
[287,]	-0.3551522456	-0.868374205	-1.631792261	0.05597262
[288,]	0.1308959142	0.115447328	0.936072010	0.59962884
[289,]	-1.0061096026	-1.524255227	-0.831513673	0.73554289
[290,]	-1.4227223111	0.006133824	-0.380921703	-0.07994143
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[293,]	-1.4314017425	-0.868374205	0.556691089	0.19188668
[294,]	-0.4940231485	-0.540433694	1.010517979	1.27919911
[295,]	-0.4159082656	-0.212493183	-0.630154535	-1.16725387
[296,]	-0.7023295027	-0.868374205	0.817349299	0.46371478
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[303,]	-1.3532868596	0.552701342	-0.968057638	-0.62359765
[304,]	0.5475086227	0.115447328	-0.466306448	1.00737100
[305,]	0.7124178198	0.880641853	0.266860213	0.05597262
[306,]	-0.2509990685	-0.540433694	0.874873251	-0.89542576
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[310,]	-0.3377933828	-0.321806687	-0.464395082	1.14328506
[311,]	0.4259965827	0.224760831	-1.110148847	1.55102722
[312,]	-1.6831052538	-1.414941724	0.142002443	0.87145695
[313,]	-0.3985494028	-0.649747198	-1.044843181	1.55102722
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[315,]	-0.9800713083	-0.977687709	-0.121758330	1.14328506
[316,]	0.4520348770	0.334074335	1.222348758	-1.30316792
[317,]	0.6082646427	0.771328350	-0.758138225	-0.62359765
[318,]	0.6169440741	0.662014846	-0.555728030	-1.43908198
[319,]	-1.7612201367	-0.649747198	-1.496747025	-0.89542576
[320,]	-1.0321478969	-0.977687709	0.754772487	-1.16725387
[321,]	0.2524079542	-0.212493183	1.285478347	-1.43908198
[322,]	-0.5374203056	-0.977687709	1.576772917	0.05597262
[323,]	0.5388291913	0.552701342	0.117672423	-0.35176954
[324,]	1.2679014310	1.208582364	-0.605298986	0.46371478
[325,]	-0.9279947198	-1.414941724	-1.248148720	-1.43908198
[326,]	1.6931935709	1.755149882	1.706812008	-1.16725387
[327,]	0.8773270169	1.099268860	1.338474970	1.00737100
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[329,]	0.4607143084	0.115447328	-0.512222062	1.41511316
[330,]	-1.0929039169	-0.868374205	-0.513755826	-0.35176954
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[736,]	0.7731738398	0.662014846	-1.212210361	-1.30316792
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[746,]	0.4693937398	0.224760831	0.228138500	-0.07994143
[747,]	0.4433554456	0.006133824	-1.570301542	-0.07994143
[748,]	-1.4487606053	-0.868374205	-1.231183884	0.87145695
[749,]	1.0248773511	0.552701342	0.868512411	0.32780073
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[751,]	-1.1102627797	-0.868374205	1.662426266	0.73554289
[752,]	-0.0947693029	0.115447328	0.239579448	0.32780073
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	incident_month	incident_day	number_of_vehicles_involved	bodily_injuries
[1,]	-0.9451162	1.1541993830	-0.8248380	0.008550071
[2,]	-0.9451162	0.6927970260	-0.8248380	-1.210445728
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[4,]	-0.9451162	-0.5760594557	-0.8248380	0.008550071
[5,]	0.9642481	0.2313946690	-0.8248380	-1.210445728
[6,]	-0.9451162	-1.4988641698	1.1374703	-1.210445728
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[9,]	-0.9451162	1.7309523293	-0.8248380	0.008550071
[10,]	-0.9451162	-1.1528124020	-0.8248380	1.227545869
[11,]	-0.9451162	-1.0374618128	-0.8248380	1.227545869
[12,]	0.9642481	0.0006934905	1.1374703	0.008550071
[13,]	-0.9451162	0.8081476153	-0.8248380	0.008550071
[14,]	-0.9451162	-0.8067606342	-0.8248380	0.008550071
[15,]	-0.9451162	0.0006934905	-0.8248380	-1.210445728
[16,]	-0.9451162	1.6156017400	2.1186244	-1.210445728
[17,]	0.9642481	0.8081476153	1.1374703	0.008550071
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[23,]	-0.9451162	-0.4607088665	1.1374703	-1.210445728
[24,]	-0.9451162	0.4620958475	-0.8248380	1.227545869
[25,]	0.9642481	1.0388487938	-0.8248380	0.008550071
[26,]	-0.9451162	-0.6914100450	1.1374703	0.008550071
[27,]	-0.9451162	1.5002511508	-0.8248380	0.008550071
[28,]	-0.9451162	-0.9221112235	-0.8248380	1.227545869
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[62,]	0.9642481	-0.4607088665	1.1374703	-1.210445728
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[86,]	0.9642481	-1.4988641698	1.1374703	-1.210445728
[87,]	-0.9451162	1.7309523293	1.1374703	1.227545869
[88,]	-0.9451162	-0.8067606342	-0.8248380	1.227545869
[89,]	-0.9451162	1.7309523293	-0.8248380	-1.210445728
[90,]	-0.9451162	-0.9221112235	1.1374703	1.227545869
[91,]	0.9642481	1.0388487938	0.1563161	0.008550071
[92,]	0.9642481	-1.4988641698	-0.8248380	-1.210445728
[93,]	0.9642481	1.5002511508	-0.8248380	-1.210445728
[94,]	0.9642481	-0.6914100450	1.1374703	0.008550071
[95,]	-0.9451162	0.4620958475	1.1374703	0.008550071
[96,]	0.9642481	0.6927970260	-0.8248380	1.227545869
[97,]	-0.9451162	-0.1146570987	-0.8248380	-1.210445728
[98,]	-0.9451162	0.8081476153	2.1186244	0.008550071
[99,]	0.9642481	0.8081476153	-0.8248380	0.008550071
[100,]	-0.9451162	1.2695499723	-0.8248380	-1.210445728
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[103,]	-0.9451162	1.6156017400	1.1374703	1.227545869
[104,]	0.9642481	0.0006934905	-0.8248380	0.008550071
[105,]	0.9642481	-0.3453582772	1.1374703	-1.210445728
[106,]	-0.9451162	-1.6142147590	-0.8248380	0.008550071
[107,]	-0.9451162	-0.2300076880	1.1374703	-1.210445728
[108,]	2.8736124	-1.6142147590	0.1563161	0.008550071
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[110,]	-0.9451162	1.3849005615	1.1374703	-1.210445728
[111,]	-0.9451162	-0.3453582772	-0.8248380	0.008550071
[112,]	-0.9451162	-1.0374618128	-0.8248380	-1.210445728
[113,]	-0.9451162	1.7309523293	1.1374703	1.227545869
[114,]	2.8736124	-1.6142147590	0.1563161	0.008550071
[115,]	0.9642481	1.0388487938	-0.8248380	0.008550071

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[118,]	-0.9451162	0.4620958475	1.1374703	1.227545869
[119,]	-0.9451162	0.2313946690	-0.8248380	0.008550071
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[121,]	0.9642481	0.8081476153	-0.8248380	1.227545869
[122,]	-0.9451162	0.9234982045	-0.8248380	1.227545869
[123,]	-0.9451162	1.8463029185	-0.8248380	-1.210445728
[124,]	-0.9451162	-1.1528124020	2.1186244	0.008550071
[125,]	0.9642481	-1.3835135805	-0.8248380	0.008550071
[126,]	0.9642481	0.2313946690	1.1374703	1.227545869
[127,]	-0.9451162	-0.6914100450	-0.8248380	-1.210445728
[128,]	0.9642481	-0.8067606342	-0.8248380	1.227545869
[129,]	0.9642481	-1.0374618128	-0.8248380	-1.210445728
[130,]	-0.9451162	-0.1146570987	1.1374703	0.008550071
[131,]	-0.9451162	0.8081476153	1.1374703	0.008550071
[132,]	0.9642481	0.9234982045	1.1374703	1.227545869
[133,]	0.9642481	0.8081476153	1.1374703	-1.210445728
[134,]	-0.9451162	1.0388487938	-0.8248380	1.227545869
[135,]	0.9642481	-0.6914100450	-0.8248380	0.008550071
[136,]	-0.9451162	0.4620958475	-0.8248380	0.008550071
[137,]	-0.9451162	-1.6142147590	-0.8248380	-1.210445728
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[140,]	0.9642481	0.6927970260	1.1374703	-1.210445728
[141,]	-0.9451162	0.6927970260	-0.8248380	-1.210445728
[142,]	-0.9451162	0.4620958475	-0.8248380	1.227545869
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[145,]	0.9642481	-1.6142147590	1.1374703	-1.210445728
[146,]	0.9642481	-1.4988641698	-0.8248380	1.227545869
[147,]	0.9642481	-1.6142147590	1.1374703	1.227545869
[148,]	-0.9451162	0.4620958475	-0.8248380	0.008550071
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[155,]	0.9642481	1.0388487938	1.1374703	0.008550071
[156,]	0.9642481	-0.3453582772	-0.8248380	1.227545869
[157,]	0.9642481	0.3467452583	1.1374703	1.227545869
[158,]	0.9642481	-1.0374618128	-0.8248380	1.227545869



[159,]	0.9642481	-0.1146570987	1.1374703	1.227545869
[160,]	0.9642481	-1.1528124020	-0.8248380	1.227545869
[161,]	-0.9451162	1.1541993830	-0.8248380	1.227545869
[162,]	-0.9451162	0.1160440798	-0.8248380	1.227545869
[163,]	-0.9451162	1.5002511508	0.1563161	1.227545869
[164,]	-0.9451162	0.6927970260	-0.8248380	1.227545869
[165,]	-0.9451162	-0.9221112235	1.1374703	1.227545869
[166,]	0.9642481	0.9234982045	1.1374703	1.227545869
[167,]	0.9642481	-0.1146570987	-0.8248380	1.227545869
[168,]	0.9642481	1.3849005615	1.1374703	-1.210445728
[169,]	0.9642481	0.6927970260	-0.8248380	-1.210445728
[170,]	-0.9451162	-1.1528124020	-0.8248380	0.008550071
[171,]	-0.9451162	1.7309523293	1.1374703	-1.210445728
[172,]	0.9642481	1.2695499723	-0.8248380	-1.210445728
[173,]	-0.9451162	-0.5760594557	1.1374703	0.008550071
[174,]	0.9642481	0.9234982045	1.1374703	-1.210445728
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[178,]	-0.9451162	-0.4607088665	-0.8248380	-1.210445728
[179,]	0.9642481	-1.0374618128	-0.8248380	-1.210445728
[180,]	-0.9451162	1.0388487938	-0.8248380	1.227545869
[181,]	0.9642481	0.3467452583	1.1374703	1.227545869
[182,]	-0.9451162	-0.3453582772	-0.8248380	1.227545869
[183,]	-0.9451162	0.2313946690	-0.8248380	1.227545869
[184,]	-0.9451162	-0.3453582772	-0.8248380	0.008550071
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[187,]	0.9642481	0.1160440798	1.1374703	0.008550071
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[190,]	0.9642481	0.1160440798	-0.8248380	-1.210445728
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[193,]	-0.9451162	-0.4607088665	-0.8248380	-1.210445728
[194,]	-0.9451162	-1.4988641698	-0.8248380	0.008550071
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[196,]	0.9642481	-1.1528124020	0.1563161	1.227545869
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[198,]	-0.9451162	-0.3453582772	-0.8248380	-1.210445728
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[200,]	-0.9451162	-0.2300076880	-0.8248380	0.008550071
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[203,]	-0.9451162	0.3467452583	-0.8248380	-1.210445728
[204,]	0.9642481	0.0006934905	1.1374703	-1.210445728
[205,]	-0.9451162	1.8463029185	1.1374703	0.008550071
[206,]	0.9642481	-0.5760594557	-0.8248380	1.227545869
[207,]	0.9642481	1.2695499723	-0.8248380	0.008550071
[208,]	0.9642481	1.1541993830	1.1374703	-1.210445728
[209,]	-0.9451162	-0.8067606342	2.1186244	1.227545869
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[212,]	-0.9451162	-1.1528124020	-0.8248380	0.008550071
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[214,]	-0.9451162	1.2695499723	1.1374703	0.008550071
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[228,]	0.9642481	0.1160440798	-0.8248380	-1.210445728
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[254,]	-0.9451162	1.2695499723	-0.8248380	1.227545869
[255,]	-0.9451162	-0.2300076880	1.1374703	1.227545869
[256,]	-0.9451162	-0.1146570987	1.1374703	-1.210445728
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[258,]	-0.9451162	0.2313946690	-0.8248380	-1.210445728
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[262,]	0.9642481	-0.9221112235	-0.8248380	1.227545869
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[264,]	-0.9451162	-0.5760594557	1.1374703	0.008550071
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[266,]	-0.9451162	1.1541993830	-0.8248380	0.008550071
[267,]	-0.9451162	1.6156017400	1.1374703	1.227545869
[268,]	0.9642481	1.0388487938	1.1374703	-1.210445728
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[277,]	0.9642481	0.1160440798	1.1374703	0.008550071
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[279,]	-0.9451162	0.5774464368	1.1374703	-1.210445728
[280,]	0.9642481	-1.0374618128	1.1374703	1.227545869
[281,]	-0.9451162	1.0388487938	1.1374703	0.008550071
[282,]	-0.9451162	-0.1146570987	-0.8248380	1.227545869
[283,]	0.9642481	0.3467452583	-0.8248380	-1.210445728
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[286,]	0.9642481	0.2313946690	-0.8248380	-1.210445728
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[289,]	0.9642481	-0.2300076880	-0.8248380	0.008550071
[290,]	0.9642481	-1.6142147590	-0.8248380	-1.210445728
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[293,]	-0.9451162	1.5002511508	1.1374703	0.008550071
[294,]	-0.9451162	0.6927970260	-0.8248380	1.227545869
[295,]	-0.9451162	0.1160440798	2.1186244	0.008550071
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[297,]	0.9642481	-1.6142147590	1.1374703	1.227545869
[298,]	0.9642481	1.1541993830	-0.8248380	1.227545869
[299,]	0.9642481	1.2695499723	-0.8248380	0.008550071
[300,]	0.9642481	-1.0374618128	0.1563161	0.008550071
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[303,]	-0.9451162	0.6927970260	1.1374703	-1.210445728
[304,]	-0.9451162	1.0388487938	-0.8248380	-1.210445728
[305,]	-0.9451162	0.2313946690	1.1374703	-1.210445728
[306,]	0.9642481	0.9234982045	-0.8248380	1.227545869
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[330,]	0.9642481	-1.3835135805	-0.8248380	0.008550071

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[334,]	0.9642481	-1.2681629913	-0.8248380	1.227545869
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[397,]	-0.9451162	-1.0374618128	-0.8248380	0.008550071
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[538,]	-0.9451162	0.9234982045	1.1374703	1.227545869
[539,]	0.9642481	0.6927970260	-0.8248380	0.008550071
[540,]	0.9642481	0.2313946690	-0.8248380	-1.210445728
[541,]	-0.9451162	-1.0374618128	-0.8248380	1.227545869
[542,]	0.9642481	0.3467452583	-0.8248380	-1.210445728
[543,]	0.9642481	0.2313946690	1.1374703	0.008550071
[544,]	-0.9451162	1.0388487938	1.1374703	-1.210445728
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[549,]	-0.9451162	-0.2300076880	-0.8248380	0.008550071
[550,]	0.9642481	1.5002511508	1.1374703	1.227545869
[551,]	-0.9451162	0.1160440798	1.1374703	-1.210445728
[552,]	0.9642481	-1.6142147590	-0.8248380	-1.210445728
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[554,]	0.9642481	0.1160440798	-0.8248380	1.227545869
[555,]	-0.9451162	-0.9221112235	1.1374703	0.008550071
[556,]	-0.9451162	-0.5760594557	-0.8248380	1.227545869
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[558,]	0.9642481	-0.2300076880	-0.8248380	-1.210445728
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[568,]	-0.9451162	0.3467452583	1.1374703	0.008550071
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[623,]	0.9642481	-0.2300076880	-0.8248380	1.227545869
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[678,]	-0.9451162	1.0388487938	-0.8248380	0.008550071
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[715,]	0.9642481	0.3467452583	-0.8248380	-1.210445728
[716,]	-0.9451162	-0.4607088665	1.1374703	1.227545869
[717,]	-0.9451162	0.8081476153	-0.8248380	1.227545869

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[752,]	-0.9451162	1.5002511508	-0.8248380	-1.210445728
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[759,]	-0.9451162	-0.2300076880	-0.8248380	-1.210445728
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[762,]	0.9642481	-1.4988641698	1.1374703	-1.210445728
[763,]	-0.9451162	0.5774464368	1.1374703	1.227545869
[764,]	-0.9451162	1.0388487938	1.1374703	-1.210445728
[765,]	-0.9451162	-1.2681629913	1.1374703	0.008550071
[766,]	-0.9451162	0.2313946690	-0.8248380	1.227545869
[767,]	0.9642481	-1.2681629913	1.1374703	1.227545869
[768,]	0.9642481	-0.1146570987	1.1374703	-1.210445728
[769,]	-0.9451162	-0.9221112235	-0.8248380	1.227545869
[770,]	0.9642481	-1.4988641698	1.1374703	1.227545869
[771,]	-0.9451162	-0.3453582772	1.1374703	0.008550071
[772,]	-0.9451162	-1.6142147590	-0.8248380	0.008550071
[773,]	0.9642481	0.8081476153	-0.8248380	0.008550071
[774,]	-0.9451162	0.1160440798	1.1374703	-1.210445728
[775,]	-0.9451162	1.5002511508	2.1186244	0.008550071
[776,]	-0.9451162	0.9234982045	-0.8248380	0.008550071
[777,]	0.9642481	1.1541993830	-0.8248380	1.227545869
[778,]	0.9642481	-0.4607088665	1.1374703	-1.210445728
[779,]	-0.9451162	-1.3835135805	1.1374703	1.227545869
[780,]	-0.9451162	1.7309523293	1.1374703	1.227545869
[781,]	-0.9451162	0.3467452583	-0.8248380	0.008550071
[782,]	-0.9451162	-1.2681629913	-0.8248380	-1.210445728
[783,]	-0.9451162	0.5774464368	-0.8248380	-1.210445728
[784,]	0.9642481	-0.3453582772	-0.8248380	-1.210445728
[785,]	0.9642481	0.4620958475	1.1374703	-1.210445728
[786,]	0.9642481	0.6927970260	1.1374703	1.227545869
[787,]	0.9642481	-1.4988641698	2.1186244	-1.210445728
[788,]	0.9642481	-1.6142147590	1.1374703	0.008550071
[789,]	-0.9451162	-0.8067606342	-0.8248380	1.227545869
[790,]	-0.9451162	0.1160440798	-0.8248380	-1.210445728
[791,]	0.9642481	0.5774464368	-0.8248380	1.227545869
[792,]	-0.9451162	1.7309523293	-0.8248380	-1.210445728
[793,]	-0.9451162	0.4620958475	1.1374703	-1.210445728
[794,]	0.9642481	1.1541993830	-0.8248380	-1.210445728
[795,]	-0.9451162	1.0388487938	1.1374703	1.227545869
[796,]	-0.9451162	0.1160440798	1.1374703	-1.210445728
[797,]	-0.9451162	-0.3453582772	-0.8248380	1.227545869
[798,]	-0.9451162	-1.2681629913	-0.8248380	-1.210445728
[799,]	0.9642481	-1.4988641698	-0.8248380	1.227545869
[800,]	0.9642481	-1.6142147590	-0.8248380	-1.210445728
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[802,]	0.9642481	-0.8067606342	1.1374703	1.227545869
[803,]	-0.9451162	0.8081476153	-0.8248380	1.227545869

[804,]	-0.9451162	-0.1146570987	-0.8248380	0.008550071
[805,]	0.9642481	-1.3835135805	-0.8248380	1.227545869
[806,]	-0.9451162	0.5774464368	-0.8248380	-1.210445728
[807,]	-0.9451162	-1.6142147590	-0.8248380	-1.210445728
[808,]	0.9642481	-1.4988641698	1.1374703	1.227545869
[809,]	-0.9451162	0.9234982045	-0.8248380	0.008550071
[810,]	-0.9451162	1.2695499723	-0.8248380	1.227545869
[811,]	-0.9451162	-1.4988641698	1.1374703	-1.210445728
[812,]	0.9642481	1.1541993830	-0.8248380	-1.210445728
[813,]	-0.9451162	0.0006934905	-0.8248380	1.227545869
[814,]	0.9642481	-0.6914100450	-0.8248380	0.008550071
[815,]	-0.9451162	0.1160440798	1.1374703	-1.210445728
[816,]	0.9642481	-1.6142147590	-0.8248380	-1.210445728
[817,]	0.9642481	-0.5760594557	2.1186244	-1.210445728
[818,]	-0.9451162	-1.3835135805	-0.8248380	0.008550071
[819,]	-0.9451162	-1.6142147590	-0.8248380	1.227545869
[820,]	0.9642481	0.9234982045	-0.8248380	-1.210445728
[821,]	-0.9451162	1.5002511508	-0.8248380	-1.210445728
[822,]	0.9642481	0.8081476153	1.1374703	-1.210445728
[823,]	-0.9451162	-1.3835135805	-0.8248380	1.227545869
[824,]	-0.9451162	-0.5760594557	-0.8248380	1.227545869
[825,]	-0.9451162	1.1541993830	-0.8248380	0.008550071
[826,]	-0.9451162	-0.5760594557	-0.8248380	0.008550071
[827,]	-0.9451162	1.5002511508	-0.8248380	-1.210445728
[828,]	0.9642481	0.3467452583	1.1374703	0.008550071
[829,]	-0.9451162	1.0388487938	1.1374703	1.227545869
[830,]	-0.9451162	0.5774464368	1.1374703	1.227545869
[831,]	-0.9451162	-0.5760594557	-0.8248380	1.227545869
[832,]	-0.9451162	-0.9221112235	1.1374703	1.227545869
[833,]	-0.9451162	0.1160440798	-0.8248380	0.008550071
[834,]	-0.9451162	-1.6142147590	2.1186244	-1.210445728
[835,]	-0.9451162	-0.9221112235	-0.8248380	0.008550071
[836,]	0.9642481	0.2313946690	-0.8248380	-1.210445728
[837,]	0.9642481	1.2695499723	-0.8248380	-1.210445728
[838,]	-0.9451162	1.8463029185	-0.8248380	-1.210445728
[839,]	0.9642481	1.3849005615	1.1374703	0.008550071
[840,]	2.8736124	-1.6142147590	-0.8248380	1.227545869
[841,]	0.9642481	-0.2300076880	-0.8248380	-1.210445728
[842,]	-0.9451162	-0.8067606342	1.1374703	0.008550071
[843,]	0.9642481	-1.1528124020	-0.8248380	1.227545869
[844,]	0.9642481	0.5774464368	1.1374703	-1.210445728
[845,]	-0.9451162	1.0388487938	1.1374703	0.008550071
[846,]	-0.9451162	1.8463029185	1.1374703	-1.210445728



[847,]	-0.9451162	0.9234982045	-0.8248380	-1.210445728
[848,]	-0.9451162	-0.4607088665	1.1374703	0.008550071
[849,]	0.9642481	0.5774464368	-0.8248380	0.008550071
[850,]	0.9642481	1.0388487938	-0.8248380	-1.210445728
[851,]	-0.9451162	0.4620958475	1.1374703	1.227545869
[852,]	-0.9451162	-0.8067606342	-0.8248380	0.008550071
[853,]	2.8736124	-1.6142147590	1.1374703	1.227545869
[854,]	-0.9451162	0.6927970260	-0.8248380	0.008550071
[855,]	0.9642481	1.5002511508	1.1374703	1.227545869
[856,]	-0.9451162	1.2695499723	1.1374703	0.008550071
[857,]	-0.9451162	1.8463029185	1.1374703	-1.210445728
[858,]	0.9642481	0.5774464368	-0.8248380	-1.210445728
[859,]	0.9642481	0.2313946690	1.1374703	1.227545869
[860,]	0.9642481	-1.4988641698	1.1374703	1.227545869
[861,]	0.9642481	-1.0374618128	1.1374703	0.008550071
[862,]	0.9642481	-0.4607088665	1.1374703	-1.210445728
[863,]	-0.9451162	1.1541993830	-0.8248380	1.227545869
[864,]	0.9642481	0.9234982045	1.1374703	-1.210445728
[865,]	-0.9451162	1.6156017400	-0.8248380	1.227545869
[866,]	-0.9451162	-1.4988641698	-0.8248380	0.008550071
[867,]	0.9642481	-1.0374618128	-0.8248380	0.008550071
[868,]	0.9642481	-0.1146570987	0.1563161	-1.210445728
[869,]	0.9642481	-1.2681629913	1.1374703	0.008550071
[870,]	0.9642481	-0.3453582772	1.1374703	0.008550071
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[872,]	-0.9451162	1.5002511508	-0.8248380	1.227545869
[873,]	-0.9451162	-0.5760594557	1.1374703	-1.210445728
[874,]	-0.9451162	0.4620958475	-0.8248380	-1.210445728
[875,]	-0.9451162	0.4620958475	-0.8248380	0.008550071
[876,]	-0.9451162	1.5002511508	-0.8248380	-1.210445728
[877,]	0.9642481	0.1160440798	-0.8248380	0.008550071
[878,]	-0.9451162	-0.8067606342	1.1374703	1.227545869
[879,]	-0.9451162	1.0388487938	1.1374703	0.008550071
[880,]	0.9642481	0.3467452583	-0.8248380	1.227545869
[881,]	-0.9451162	0.6927970260	-0.8248380	0.008550071
[882,]	-0.9451162	-0.8067606342	-0.8248380	0.008550071
[883,]	0.9642481	-1.4988641698	-0.8248380	-1.210445728
[884,]	2.8736124	-1.6142147590	1.1374703	-1.210445728
[885,]	0.9642481	-1.2681629913	-0.8248380	1.227545869
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[887,]	0.9642481	-0.6914100450	-0.8248380	0.008550071
[888,]	0.9642481	0.4620958475	-0.8248380	-1.210445728
[889,]	-0.9451162	-0.3453582772	-0.8248380	0.008550071

[890,]	0.9642481	-0.9221112235	1.1374703	1.227545869
[891,]	-0.9451162	-0.2300076880	-0.8248380	1.227545869
[892,]	-0.9451162	0.3467452583	0.1563161	-1.210445728
[893,]	-0.9451162	0.0006934905	-0.8248380	1.227545869
[894,]	0.9642481	0.9234982045	-0.8248380	-1.210445728
[895,]	0.9642481	0.2313946690	-0.8248380	0.008550071
[896,]	0.9642481	0.2313946690	1.1374703	-1.210445728
[897,]	-0.9451162	0.3467452583	-0.8248380	-1.210445728
[898,]	-0.9451162	0.2313946690	1.1374703	1.227545869
[899,]	0.9642481	1.1541993830	-0.8248380	-1.210445728
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[901,]	0.9642481	1.2695499723	-0.8248380	-1.210445728
[902,]	0.9642481	-0.4607088665	-0.8248380	-1.210445728
[903,]	0.9642481	-0.2300076880	1.1374703	1.227545869
[904,]	-0.9451162	-0.5760594557	-0.8248380	1.227545869
[905,]	-0.9451162	1.0388487938	1.1374703	1.227545869
[906,]	0.9642481	0.0006934905	1.1374703	0.008550071
[907,]	-0.9451162	-0.6914100450	1.1374703	1.227545869
[908,]	-0.9451162	1.8463029185	1.1374703	0.008550071
[909,]	0.9642481	-1.2681629913	-0.8248380	0.008550071
[910,]	-0.9451162	1.7309523293	1.1374703	-1.210445728
[911,]	0.9642481	1.3849005615	-0.8248380	0.008550071
[912,]	0.9642481	-1.1528124020	0.1563161	-1.210445728
[913,]	-0.9451162	1.7309523293	1.1374703	1.227545869
[914,]	-0.9451162	-1.3835135805	-0.8248380	0.008550071
[915,]	2.8736124	-1.6142147590	2.1186244	-1.210445728
[916,]	0.9642481	-0.2300076880	-0.8248380	1.227545869
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[918,]	0.9642481	0.4620958475	1.1374703	1.227545869
[919,]	0.9642481	-0.8067606342	1.1374703	0.008550071
[920,]	0.9642481	-1.2681629913	-0.8248380	0.008550071
[921,]	0.9642481	0.8081476153	1.1374703	-1.210445728
[922,]	-0.9451162	-0.1146570987	-0.8248380	-1.210445728
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[925,]	-0.9451162	1.0388487938	-0.8248380	1.227545869
[926,]	-0.9451162	1.3849005615	-0.8248380	-1.210445728
[927,]	-0.9451162	-0.2300076880	-0.8248380	0.008550071
[928,]	-0.9451162	0.0006934905	-0.8248380	0.008550071
[929,]	0.9642481	-1.2681629913	-0.8248380	-1.210445728
[930,]	-0.9451162	-1.2681629913	2.1186244	-1.210445728
[931,]	-0.9451162	-0.1146570987	1.1374703	0.008550071
[932,]	-0.9451162	1.3849005615	1.1374703	1.227545869

[933,]	0.9642481	-0.3453582772	1.1374703	0.008550071
[934,]	0.9642481	-1.3835135805	1.1374703	0.008550071
[935,]	-0.9451162	1.2695499723	2.1186244	1.227545869
[936,]	-0.9451162	-0.6914100450	-0.8248380	0.008550071
[937,]	0.9642481	0.2313946690	-0.8248380	1.227545869
[938,]	-0.9451162	0.1160440798	-0.8248380	-1.210445728
[939,]	-0.9451162	-0.3453582772	1.1374703	0.008550071
[940,]	-0.9451162	-1.3835135805	-0.8248380	0.008550071
[941,]	-0.9451162	0.8081476153	1.1374703	-1.210445728
[942,]	-0.9451162	-0.2300076880	-0.8248380	0.008550071
[943,]	-0.9451162	1.8463029185	1.1374703	-1.210445728
[944,]	0.9642481	-1.2681629913	-0.8248380	0.008550071
[945,]	-0.9451162	0.5774464368	1.1374703	-1.210445728
[946,]	0.9642481	-0.9221112235	-0.8248380	1.227545869
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[948,]	-0.9451162	-1.4988641698	-0.8248380	0.008550071
[949,]	0.9642481	-0.8067606342	1.1374703	1.227545869
[950,]	-0.9451162	-0.2300076880	-0.8248380	0.008550071
[951,]	-0.9451162	0.1160440798	-0.8248380	-1.210445728
[952,]	-0.9451162	1.7309523293	1.1374703	-1.210445728
[953,]	0.9642481	1.2695499723	-0.8248380	0.008550071
[954,]	-0.9451162	1.3849005615	-0.8248380	-1.210445728
[955,]	-0.9451162	1.5002511508	-0.8248380	-1.210445728
[956,]	0.9642481	0.9234982045	1.1374703	-1.210445728
[957,]	-0.9451162	0.3467452583	-0.8248380	1.227545869
[958,]	0.9642481	0.0006934905	1.1374703	0.008550071
[959,]	0.9642481	-1.2681629913	-0.8248380	-1.210445728
[960,]	-0.9451162	-0.3453582772	1.1374703	0.008550071
[961,]	-0.9451162	-1.4988641698	-0.8248380	1.227545869
[962,]	-0.9451162	1.3849005615	-0.8248380	-1.210445728
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[965,]	-0.9451162	-1.3835135805	-0.8248380	-1.210445728
[966,]	-0.9451162	-0.3453582772	1.1374703	-1.210445728
[967,]	-0.9451162	0.8081476153	-0.8248380	0.008550071
[968,]	-0.9451162	-1.3835135805	1.1374703	1.227545869
[969,]	0.9642481	0.9234982045	-0.8248380	1.227545869
[970,]	-0.9451162	0.8081476153	-0.8248380	1.227545869
[971,]	0.9642481	-0.2300076880	-0.8248380	1.227545869
[972,]	0.9642481	-0.8067606342	-0.8248380	0.008550071
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[975,]	-0.9451162	-0.5760594557	0.1563161	-1.210445728

[976,]	-0.9451162	1.2695499723		1.1374703	1.227545869
[977,]	0.9642481	0.6927970260		1.1374703	0.008550071
[978,]	-0.9451162	0.9234982045		-0.8248380	1.227545869
[979,]	0.9642481	-1.1528124020		-0.8248380	-1.210445728
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[982,]	-0.9451162	-1.6142147590		1.1374703	-1.210445728
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[984,]	0.9642481	1.5002511508		-0.8248380	1.227545869
[985,]	-0.9451162	-0.2300076880		-0.8248380	-1.210445728
[986,]	0.9642481	0.4620958475		-0.8248380	1.227545869
[987,]	-0.9451162	-0.2300076880		-0.8248380	-1.210445728
[988,]	0.9642481	0.2313946690		-0.8248380	0.008550071
[989,]	0.9642481	0.0006934905		1.1374703	0.008550071
[990,]	-0.9451162	1.8463029185		-0.8248380	1.227545869
[991,]	-0.9451162	0.9234982045		1.1374703	0.008550071
[992,]	0.9642481	0.2313946690		1.1374703	-1.210445728
[993,]	-0.9451162	0.8081476153		-0.8248380	0.008550071
[994,]	0.9642481	0.8081476153		-0.8248380	-1.210445728
[995,]	-0.9451162	1.0388487938		-0.8248380	1.227545869
[996,]	-0.9451162	0.9234982045		1.1374703	1.227545869
[997,]	0.9642481	1.2695499723		-0.8248380	-1.210445728
[998,]	0.9642481	1.2695499723		-0.8248380	-1.210445728

	witnesses	vehicle_price	injury_claim	auto_year	fraud_reported
[1,]	0.4603560	7.116920e-01	-0.192390536	-0.18481692	1.7428251
[2,]	-1.3378250	-1.814320e+00	-1.367760152	0.31368925	1.7428251
[3,]	1.3594464	-6.913950e-01	0.051708913	0.31368925	-0.5732061
[4,]	0.4603560	4.000215e-01	-0.227261886	1.47687032	1.7428251
[5,]	-0.4387345	-1.760034e+00	-1.261094847	0.64602670	-0.5732061
[6,]	0.4603560	4.265951e-01	-0.212903095	-0.35098564	1.7428251
[7,]	-1.3378250	9.789467e-01	2.872185741	1.14453287	-0.5732061
[8,]	0.4603560	-4.831343e-02	0.396319900	1.64303905	-0.5732061
[9,]	-0.4387345	-9.552330e-01	-0.959560233	1.14453287	-0.5732061
[10,]	-0.4387345	-4.009833e-01	-0.563667849	-1.51416671	-0.5732061
[11,]	0.4603560	1.296312e+00	0.094785286	-0.51715437	-0.5732061
[12,]	0.4603560	2.355840e+00	2.098862276	0.14752053	-0.5732061
[13,]	-1.3378250	1.388408e-01	-0.561616593	-0.84949181	-0.5732061
[14,]	-0.4387345	1.259071e-05	-1.298017452	0.81219543	-0.5732061
[15,]	0.4603560	-2.529303e-01	-0.666230643	-0.35098564	1.7428251
[16,]	-1.3378250	3.893920e-01	0.630163070	-1.01566054	1.7428251
[17,]	0.4603560	-2.857303e-02	-0.340080959	1.14453287	-0.5732061
[18,]	0.4603560	9.497157e-01	1.376820208	1.64303905	-0.5732061
[19,]	-1.3378250	7.618023e-01	-0.167775465	1.64303905	-0.5732061

[20,]	-1.3378250	2.861345e-01	-0.288799562	1.47687032	-0.5732061
[21,]	-1.3378250	-2.164865e-01	-1.527758110	0.97836415	-0.5732061
[22,]	0.4603560	-5.702952e-01	-1.527758110	-1.51416671	-0.5732061
[23,]	-1.3378250	7.082754e-01	2.139887394	-0.84949181	1.7428251
[24,]	0.4603560	1.719591e+00	0.150169195	0.97836415	1.7428251
[25,]	1.3594464	9.497157e-01	-0.075468951	-0.01864819	-0.5732061
[26,]	1.3594464	7.075162e-01	1.856814083	0.14752053	1.7428251
[27,]	1.3594464	-1.664369e+00	-1.191352147	-0.01864819	-0.5732061
[28,]	-0.4387345	-1.789645e+00	-1.314427499	-0.35098564	1.7428251
[29,]	-1.3378250	6.444987e-01	0.064016448	0.64602670	-0.5732061
[30,]	0.4603560	1.472457e+00	1.364512673	0.97836415	-0.5732061
[31,]	-1.3378250	8.631616e-01	1.056824292	-0.01864819	-0.5732061
[32,]	0.4603560	5.420005e-01	0.002478772	0.14752053	1.7428251
[33,]	1.3594464	-8.758918e-01	-0.848792416	0.47985798	-0.5732061
[34,]	0.4603560	9.204847e-01	1.348102626	1.64303905	-0.5732061
[35,]	-0.4387345	4.531687e-01	0.687598234	-1.01566054	-0.5732061
[36,]	-1.3378250	9.009658e-03	0.650675629	-1.68033543	1.7428251
[37,]	-0.4387345	2.785421e-01	-0.292902074	-0.18481692	1.7428251
[38,]	-0.4387345	-1.804450e+00	-1.275453638	-0.68332309	-0.5732061
[39,]	-1.3378250	3.582629e-01	1.028106710	0.31368925	-0.5732061
[40,]	1.3594464	2.774032e-01	0.716315817	0.97836415	1.7428251
[41,]	0.4603560	-4.882966e-01	0.113246589	0.81219543	-0.5732061
[42,]	-0.4387345	1.678592e+00	1.791173895	-0.68332309	1.7428251
[43,]	-1.3378250	-4.565607e-02	-0.350337238	0.81219543	-0.5732061
[44,]	0.4603560	-6.615572e-02	-0.362644774	-0.01864819	-0.5732061
[45,]	0.4603560	1.342853e-01	0.786058516	1.47687032	-0.5732061
[46,]	1.3594464	8.569353e-02	-0.114442813	-0.51715437	-0.5732061
[47,]	-0.4387345	9.204847e-01	-1.527758110	1.47687032	-0.5732061
[48,]	-0.4387345	3.772441e-01	-0.239569421	-0.35098564	1.7428251
[49,]	-1.3378250	-1.730044e+00	-1.361606385	-1.68033543	-0.5732061
[50,]	-1.3378250	9.011240e-01	1.614765890	-0.84949181	-0.5732061
[51,]	1.3594464	1.098528e+00	1.828096501	-1.18182926	-0.5732061
[52,]	0.4603560	-1.731183e+00	-1.256992335	0.47985798	-0.5732061
[53,]	-0.4387345	-1.843551e+00	-1.439554108	-0.84949181	-0.5732061
[54,]	-1.3378250	6.699335e-01	1.101951921	-1.01566054	-0.5732061
[55,]	-0.4387345	-1.906569e+00	-1.429297828	0.64602670	-0.5732061
[56,]	0.4603560	9.884373e-01	1.709123660	-1.68033543	-0.5732061
[57,]	1.3594464	1.354242e-01	-1.527758110	1.47687032	-0.5732061
[58,]	1.3594464	-1.915679e+00	-1.466220434	1.47687032	-0.5732061
[59,]	-0.4387345	4.907514e-01	-0.028290066	0.31368925	-0.5732061
[60,]	-0.4387345	3.817995e-01	0.818878610	-0.84949181	-0.5732061
[61,]	-0.4387345	6.308323e-01	1.639380960	1.47687032	1.7428251
[62,]	1.3594464	-3.258179e-01	-0.013931275	-1.34799799	-0.5732061

[63,]	1.3594464	1.304891e-01	-0.372901053	0.97836415	-0.5732061
[64,]	0.4603560	5.943885e-01	0.814776099	-0.35098564	1.7428251
[65,]	-1.3378250	2.379224e-01	-0.180083001	0.14752053	1.7428251
[66,]	0.4603560	1.118268e+00	1.286564950	-1.68033543	1.7428251
[67,]	-0.4387345	1.398430e+00	1.302974997	0.64602670	1.7428251
[68,]	-0.4387345	-7.187278e-01	-1.527758110	-1.18182926	-0.5732061
[69,]	1.3594464	5.947681e-01	1.028106710	-1.34799799	-0.5732061
[70,]	-0.4387345	-1.843551e+00	-1.351350105	-0.18481692	-0.5732061
[71,]	1.3594464	5.864164e-01	1.019901686	-0.35098564	1.7428251
[72,]	0.4603560	3.199210e-01	-0.130852860	-1.68033543	1.7428251
[73,]	0.4603560	-8.641235e-01	-0.910330092	-1.01566054	-0.5732061
[74,]	-1.3378250	1.616181e-01	0.425037482	-0.51715437	-0.5732061
[75,]	-1.3378250	-3.770670e-01	0.429139994	-0.01864819	-0.5732061
[76,]	-1.3378250	-6.273911e-02	0.806571075	0.81219543	-0.5732061
[77,]	-0.4387345	1.387042e+00	1.528613143	-1.18182926	-0.5732061
[78,]	0.4603560	2.606998e-01	0.699905770	-0.01864819	-0.5732061
[79,]	0.4603560	-1.700813e+00	-1.273402382	-0.18481692	-0.5732061
[80,]	0.4603560	7.340898e-01	1.434255373	1.31070160	1.7428251
[81,]	0.4603560	-7.830366e-02	0.556317858	-0.01864819	-0.5732061
[82,]	-0.4387345	-1.756238e+00	-1.392375223	-0.01864819	-0.5732061
[83,]	0.4603560	-1.722072e+00	-1.373913920	-0.51715437	-0.5732061
[84,]	1.3594464	-1.760414e+00	-1.285709917	-0.51715437	-0.5732061
[85,]	1.3594464	3.066342e-01	-0.391362356	1.31070160	1.7428251
[86,]	-0.4387345	2.064137e-01	-0.331875935	0.31368925	-0.5732061
[87,]	-0.4387345	5.898330e-01	0.810673587	0.31368925	-0.5732061
[88,]	-0.4387345	4.319098e-01	0.868108751	1.64303905	-0.5732061
[89,]	-0.4387345	-1.828366e+00	-1.334940058	-0.51715437	-0.5732061
[90,]	-1.3378250	-2.939296e-01	-1.527758110	0.97836415	1.7428251
[91,]	-0.4387345	5.347877e-01	0.585035441	-1.68033543	-0.5732061
[92,]	1.3594464	1.726425e+00	0.306064642	-0.18481692	1.7428251
[93,]	-0.4387345	-1.782811e+00	-1.406734014	0.31368925	-0.5732061
[94,]	-0.4387345	6.763871e-01	-0.319568400	0.64602670	-0.5732061
[95,]	-1.3378250	1.551039e+00	1.967581900	-0.01864819	-0.5732061
[96,]	-1.3378250	-1.743710e+00	-1.269299870	-0.68332309	-0.5732061
[97,]	1.3594464	7.618023e-01	-0.167775465	0.14752053	1.7428251
[98,]	0.4603560	4.565853e-01	-0.048802625	1.31070160	1.7428251
[99,]	0.4603560	-1.801793e+00	-1.343145082	-1.01566054	-0.5732061
[100,]	-1.3378250	-1.794200e+00	-1.384170199	0.31368925	-0.5732061
[101,]	-1.3378250	1.003622e+00	1.725533707	0.31368925	-0.5732061
[102,]	-1.3378250	-2.379035e-03	0.638368093	-0.18481692	-0.5732061
[103,]	1.3594464	-9.134745e-01	-1.527758110	1.31070160	-0.5732061
[104,]	-0.4387345	-1.894041e+00	-1.460066667	0.47985798	-0.5732061
[105,]	-1.3378250	1.541928e+00	1.668098542	1.47687032	-0.5732061

[106,]	1.3594464	-1.842792e+00	-1.429297828	-0.51715437	-0.5732061
[107,]	0.4603560	1.022603e+00	-0.163672954	-0.84949181	1.7428251
[108,]	-1.3378250	8.100144e-01	-0.005726251	-1.34799799	-0.5732061
[109,]	-1.3378250	6.729705e-01	0.699905770	-0.84949181	1.7428251
[110,]	1.3594464	3.066342e-01	-0.391362356	0.14752053	1.7428251
[111,]	0.4603560	8.289956e-01	0.004530028	0.81219543	-0.5732061
[112,]	-1.3378250	6.505727e-01	1.344000114	1.64303905	1.7428251
[113,]	-1.3378250	1.070815e+00	1.495793049	-0.68332309	-0.5732061
[114,]	-0.4387345	1.843955e-01	1.432204117	0.31368925	-0.5732061
[115,]	-0.4387345	-1.738016e+00	-1.285709917	-0.68332309	-0.5732061
[116,]	-0.4387345	-1.959868e-01	-0.549309058	-1.34799799	1.7428251
[117,]	1.3594464	-6.084099e-02	0.384012365	-0.51715437	-0.5732061
[118,]	0.4603560	6.657576e-01	-0.214954351	0.97836415	1.7428251
[119,]	1.3594464	1.409819e+00	2.164502464	1.64303905	-0.5732061
[120,]	-0.4387345	7.576264e-01	1.188104668	0.81219543	-0.5732061
[121,]	-1.3378250	6.239991e-01	1.315282532	-0.84949181	-0.5732061
[122,]	-0.4387345	8.996055e-01	1.089644386	0.47985798	1.7428251
[123,]	-0.4387345	9.784146e-02	-1.527758110	-1.01566054	1.7428251
[124,]	-1.3378250	9.212440e-01	0.230168174	-1.68033543	-0.5732061
[125,]	-0.4387345	-4.123720e-01	-0.091878998	0.97836415	-0.5732061
[126,]	1.3594464	-6.287572e-01	-0.850843672	1.31070160	-0.5732061
[127,]	-1.3378250	-4.761487e-01	-0.346234727	-0.68332309	-0.5732061
[128,]	-1.3378250	-1.856458e+00	-1.460066667	-1.18182926	-0.5732061
[129,]	1.3594464	4.167249e-01	0.654778140	0.14752053	1.7428251
[130,]	0.4603560	-3.087349e-01	-0.508283941	-0.84949181	1.7428251
[131,]	0.4603560	1.209378e+00	1.368615185	-1.01566054	-0.5732061
[132,]	0.4603560	3.278931e-01	-0.266235747	1.14453287	-0.5732061
[133,]	-0.4387345	-7.071119e-02	0.215809383	1.31070160	-0.5732061
[134,]	-0.4387345	-2.301529e-01	-0.567770361	-0.51715437	-0.5732061
[135,]	-0.4387345	9.588267e-01	2.033222088	0.14752053	-0.5732061
[136,]	0.4603560	6.202029e-01	1.311180020	-1.51416671	1.7428251
[137,]	-1.3378250	-1.866708e+00	-1.443656620	1.64303905	-0.5732061
[138,]	1.3594464	4.797423e-01	-0.184185512	0.81219543	-0.5732061
[139,]	0.4603560	8.829020e-01	1.311180020	-1.01566054	-0.5732061
[140,]	0.4603560	7.857185e-01	0.987081592	-1.68033543	-0.5732061
[141,]	-0.4387345	-3.161001e-02	0.412729947	0.47985798	-0.5732061
[142,]	1.3594464	-1.810524e+00	-1.431349084	-0.68332309	-0.5732061
[143,]	-0.4387345	-1.695878e+00	-1.140070750	1.31070160	-0.5732061
[144,]	1.3594464	6.809426e-01	-0.075468951	1.14453287	1.7428251
[145,]	1.3594464	-2.745688e-01	-0.487771382	0.97836415	-0.5732061
[146,]	-0.4387345	1.763628e+00	0.039401378	-0.51715437	1.7428251
[147,]	-1.3378250	4.227988e-01	1.097849409	-1.51416671	1.7428251
[148,]	-0.4387345	-2.111717e-01	-0.557514082	1.47687032	-0.5732061

[149,]	1.3594464	7.143494e-01	0.310167153	0.31368925	1.7428251
[150,]	-1.3378250	2.257138e+00	2.016812041	0.97836415	1.7428251
[151,]	-1.3378250	1.133453e+00	0.014786307	1.47687032	-0.5732061
[152,]	-0.4387345	-1.823204e-01	0.662983164	0.64602670	-0.5732061
[153,]	1.3594464	4.064750e-01	0.478370135	0.14752053	1.7428251
[154,]	1.3594464	3.939475e-01	0.634265582	-1.34799799	-0.5732061
[155,]	1.3594464	5.228669e-02	0.326577200	1.31070160	1.7428251
[156,]	1.3594464	-5.915541e-01	-1.527758110	-1.51416671	1.7428251
[157,]	-0.4387345	7.302936e-01	-0.048802625	0.14752053	-0.5732061
[158,]	1.3594464	-1.760034e+00	-1.261094847	1.31070160	-0.5732061
[159,]	-1.3378250	9.633821e-01	1.147079550	1.31070160	-0.5732061
[160,]	-1.3378250	-1.771423e+00	-1.273402382	-1.01566054	-0.5732061
[161,]	1.3594464	-1.772941e+00	-1.412887781	1.47687032	-0.5732061
[162,]	-1.3378250	8.802447e-01	0.872211263	-1.34799799	-0.5732061
[163,]	-0.4387345	1.260247e+00	1.188104668	-0.51715437	-0.5732061
[164,]	-1.3378250	2.089344e+00	0.685546978	-1.34799799	1.7428251
[165,]	-1.3378250	1.789062e+00	2.201425070	0.97836415	-0.5732061
[166,]	0.4603560	3.233376e-01	0.761443446	1.14453287	-0.5732061
[167,]	-0.4387345	6.991645e-01	1.130669503	1.14453287	1.7428251
[168,]	-1.3378250	4.227988e-01	1.097849409	-1.01566054	-0.5732061
[169,]	-0.4387345	-1.781293e+00	-1.392375223	1.64303905	-0.5732061
[170,]	-1.3378250	-1.752442e+00	-1.390323967	0.97836415	-0.5732061
[171,]	-1.3378250	-4.261908e-02	0.921441404	0.14752053	-0.5732061
[172,]	-0.4387345	2.799081e-02	-0.153416674	0.31368925	1.7428251
[173,]	-1.3378250	-3.019017e-01	-0.504181429	-0.68332309	-0.5732061
[174,]	0.4603560	-1.808019e-01	0.749135911	1.47687032	-0.5732061
[175,]	-0.4387345	-1.775219e+00	-1.402631502	-0.51715437	-0.5732061
[176,]	-1.3378250	1.015011e+00	1.737841242	0.97836415	-0.5732061
[177,]	-0.4387345	9.178274e-01	0.228116918	-1.18182926	-0.5732061
[178,]	-0.4387345	3.692720e-01	0.806571075	-0.35098564	-0.5732061
[179,]	-0.4387345	1.225702e+00	1.159387086	-1.18182926	-0.5732061
[180,]	-0.4387345	-1.818876e+00	-1.435451596	0.81219543	-0.5732061
[181,]	-1.3378250	-6.691496e-02	0.568625394	0.14752053	-0.5732061
[182,]	1.3594464	1.819812e+00	1.918351759	-1.34799799	-0.5732061
[183,]	1.3594464	1.446642e+00	1.865019106	0.64602670	-0.5732061
[184,]	-0.4387345	1.100046e+00	1.524510631	0.97836415	1.7428251
[185,]	0.4603560	7.734182e-02	-0.401618635	1.31070160	-0.5732061
[186,]	1.3594464	1.358949e+00	0.125554125	0.31368925	1.7428251
[187,]	-0.4387345	-1.323467e+00	-1.066225539	0.64602670	-0.5732061
[188,]	1.3594464	-1.797996e+00	-1.302119964	0.81219543	-0.5732061
[189,]	-1.3378250	7.993850e-01	1.229129785	-0.35098564	1.7428251
[190,]	0.4603560	1.860052e+00	2.271167770	0.31368925	-0.5732061
[191,]	-0.4387345	-1.802172e+00	-1.326735035	0.47985798	-0.5732061



[192,]	0.4603560	-9.007197e-02	-0.377003565	-0.68332309	-0.5732061
[193,]	1.3594464	1.001192e-01	-0.389311100	1.14453287	-0.5732061
[194,]	-0.4387345	-1.739534e+00	-1.265197358	1.64303905	-0.5732061
[195,]	-0.4387345	-4.822226e-01	-0.498027661	-0.35098564	-0.5732061
[196,]	1.3594464	1.069524e-01	-0.100084022	0.14752053	-0.5732061
[197,]	-0.4387345	-1.805589e+00	-1.419041549	-0.68332309	1.7428251
[198,]	1.3594464	-1.809385e+00	-1.394426479	0.14752053	-0.5732061
[199,]	-0.4387345	2.481722e-01	-0.309312121	1.47687032	-0.5732061
[200,]	-0.4387345	-1.911124e+00	-1.470322946	-1.34799799	-0.5732061
[201,]	-0.4387345	-1.788126e+00	-1.330837546	0.97836415	-0.5732061
[202,]	-1.3378250	9.049202e-01	0.045555146	0.14752053	-0.5732061
[203,]	0.4603560	-1.782052e+00	-1.375965176	1.64303905	-0.5732061
[204,]	1.3594464	4.360856e-01	-0.061110160	0.64602670	-0.5732061
[205,]	0.4603560	-1.282468e+00	-0.658025620	-1.68033543	-0.5732061
[206,]	-0.4387345	5.836066e-02	-0.411874915	0.97836415	-0.5732061
[207,]	-1.3378250	2.633571e-01	-0.301107097	-1.01566054	1.7428251
[208,]	1.3594464	7.264973e-01	-0.050853881	-0.01864819	-0.5732061
[209,]	1.3594464	4.634185e-01	-0.044700113	-0.35098564	-0.5732061
[210,]	-0.4387345	-1.672721e+00	-1.166737077	-0.51715437	-0.5732061
[211,]	-1.3378250	-1.774460e+00	-1.318530011	1.64303905	-0.5732061
[212,]	0.4603560	-1.738016e+00	-1.285709917	-1.01566054	-0.5732061
[213,]	1.3594464	-7.039225e-01	0.232219430	0.64602670	-0.5732061
[214,]	-1.3378250	2.267609e-02	0.466062600	-0.18481692	1.7428251
[215,]	1.3594464	1.081825e+00	-0.137006627	0.64602670	1.7428251
[216,]	0.4603560	1.070815e+00	-0.015982531	0.14752053	1.7428251
[217,]	0.4603560	3.893920e-01	-0.448797520	0.47985798	-0.5732061
[218,]	-0.4387345	-1.733460e+00	-1.232377264	-0.18481692	-0.5732061
[219,]	1.3594464	6.615818e-01	1.093746898	-1.18182926	1.7428251
[220,]	-1.3378250	2.781624e-01	0.371704830	-1.01566054	-0.5732061
[221,]	0.4603560	3.233376e-01	0.761443446	0.64602670	1.7428251
[222,]	0.4603560	-9.400481e-01	-0.951355210	1.14453287	-0.5732061
[223,]	-1.3378250	-1.443581e-01	0.301962130	-1.68033543	-0.5732061
[224,]	-0.4387345	1.593404e-01	-0.227261886	-1.68033543	-0.5732061
[225,]	1.3594464	9.497157e-01	1.134772015	0.47985798	-0.5732061
[226,]	-0.4387345	7.834408e-01	-0.020085042	-1.01566054	-0.5732061
[227,]	-1.3378250	1.368820e+00	-0.124699092	0.81219543	-0.5732061
[228,]	0.4603560	-1.986442e-01	1.136823271	-0.01864819	1.7428251
[229,]	1.3594464	2.345058e-01	-0.182134257	1.64303905	-0.5732061
[230,]	1.3594464	1.012354e+00	1.438357884	-0.84949181	-0.5732061
[231,]	0.4603560	3.102780e-02	-0.526745244	-0.01864819	-0.5732061
[232,]	1.3594464	-7.331535e-01	-0.902125069	-0.01864819	-0.5732061
[233,]	-0.4387345	6.164066e-01	-0.110340301	0.14752053	-0.5732061
[234,]	-1.3378250	1.020705e+00	1.446562908	-1.01566054	-0.5732061

[235,]	0.4603560	2.799081e-02	-0.428284962	1.64303905	1.7428251
[236,]	-1.3378250	8.996055e-01	1.089644386	0.64602670	-0.5732061
[237,]	-0.4387345	-4.453992e-01	-0.590334176	-1.01566054	-0.5732061
[238,]	1.3594464	9.789467e-01	1.405537790	-1.51416671	1.7428251
[239,]	-0.4387345	6.908128e-01	-0.202646815	0.81219543	-0.5732061
[240,]	-0.4387345	-5.327125e-01	-0.803664787	-1.01566054	-0.5732061
[241,]	-1.3378250	2.419458e-02	-0.430336217	1.64303905	-0.5732061
[242,]	-1.3378250	7.910333e-01	-0.015982531	-0.68332309	1.7428251
[243,]	-0.4387345	-1.767626e+00	-1.398528990	-0.68332309	-0.5732061
[244,]	0.4603560	4.759461e-01	0.708110793	1.14453287	-0.5732061
[245,]	0.4603560	-1.885310e+00	-1.396477734	1.47687032	-0.5732061
[246,]	1.3594464	8.555692e-01	0.018888819	1.14453287	1.7428251
[247,]	0.4603560	2.003397e-01	-0.202646815	0.47985798	-0.5732061
[248,]	-0.4387345	1.738952e+00	1.586048307	0.81219543	1.7428251
[249,]	1.3594464	-1.782811e+00	-1.285709917	0.64602670	-0.5732061
[250,]	1.3594464	4.265951e-01	-0.212903095	-0.68332309	-0.5732061
[251,]	-0.4387345	9.784146e-02	-0.493925150	0.64602670	1.7428251
[252,]	0.4603560	1.062464e+00	-0.020085042	0.97836415	1.7428251
[253,]	-0.4387345	-1.722831e+00	-1.388272711	-1.18182926	-0.5732061
[254,]	1.3594464	2.950931e-02	-0.305209609	-0.18481692	1.7428251
[255,]	0.4603560	3.943271e-01	-0.348285982	-0.51715437	1.7428251
[256,]	-0.4387345	2.345058e-01	0.490677670	-1.68033543	-0.5732061
[257,]	-1.3378250	-8.969235e-02	0.544010323	-0.18481692	-0.5732061
[258,]	-0.4387345	1.832567e-01	-0.212903095	0.81219543	1.7428251
[259,]	1.3594464	-1.781293e+00	-1.392375223	1.47687032	-0.5732061
[260,]	0.4603560	-1.925702e-01	-0.438541241	-1.68033543	1.7428251
[261,]	-0.4387345	-1.860634e+00	-1.455964155	1.47687032	-0.5732061
[262,]	-1.3378250	2.329873e-01	-0.317517144	1.31070160	1.7428251
[263,]	-0.4387345	6.733501e-01	-0.079571463	1.31070160	1.7428251
[264,]	-0.4387345	3.275134e-01	-0.381106076	-0.68332309	-0.5732061
[265,]	-1.3378250	1.813585e-01	-0.452900032	0.81219543	-0.5732061
[266,]	-1.3378250	-1.745229e+00	-1.310324988	-1.01566054	-0.5732061
[267,]	0.4603560	1.584287e-02	0.900928845	0.14752053	1.7428251
[268,]	-1.3378250	9.656599e-01	1.684508589	0.64602670	-0.5732061
[269,]	1.3594464	-4.317328e-01	-0.582129152	-0.68332309	-0.5732061
[270,]	1.3594464	6.114715e-01	1.044516757	0.31368925	-0.5732061
[271,]	-1.3378250	1.231396e+00	1.971684412	-0.35098564	-0.5732061
[272,]	-1.3378250	-1.889865e+00	-1.412887781	1.14453287	-0.5732061
[273,]	-1.3378250	7.173864e-01	0.736828375	0.81219543	1.7428251
[274,]	-1.3378250	2.595609e-01	0.921441404	-0.51715437	-0.5732061
[275,]	0.4603560	4.577242e-01	0.691700746	-1.34799799	-0.5732061
[276,]	-0.4387345	-5.820635e-01	-0.672384411	0.47985798	-0.5732061
[277,]	0.4603560	4.258358e-01	-0.067263928	1.14453287	-0.5732061

[278,]	-1.3378250	2.857549e-01	0.724520840	-0.18481692	1.7428251
[279,]	-0.4387345	4.360856e-01	-0.327773424	0.97836415	1.7428251
[280,]	-0.4387345	6.847388e-01	1.380922720	-1.34799799	-0.5732061
[281,]	1.3594464	-2.392639e-01	0.064016448	1.14453287	-0.5732061
[282,]	-0.4387345	-1.827227e+00	-1.351350105	1.31070160	1.7428251
[283,]	-1.3378250	-1.747886e+00	-1.273402382	-0.35098564	-0.5732061
[284,]	0.4603560	2.671534e-01	0.929646428	-1.34799799	1.7428251
[285,]	1.3594464	1.013492e+00	1.192207180	0.64602670	-0.5732061
[286,]	-0.4387345	6.615818e-01	1.093746898	0.47985798	-0.5732061
[287,]	-1.3378250	4.193822e-01	-0.335978447	-1.01566054	-0.5732061
[288,]	-1.3378250	-1.763830e+00	-1.396477734	-1.34799799	-0.5732061
[289,]	0.4603560	5.283341e-01	-0.005726251	1.31070160	1.7428251
[290,]	0.4603560	-1.674239e+00	-1.228274753	1.31070160	-0.5732061
[291,]	-0.4387345	1.567742e+00	0.228116918	-1.51416671	-0.5732061
[292,]	0.4603560	-4.907268e-02	-0.352388494	0.81219543	-0.5732061
[293,]	-1.3378250	-6.175266e-03	0.634265582	1.47687032	1.7428251
[294,]	0.4603560	1.827784e+00	1.659893519	-1.18182926	-0.5732061
[295,]	0.4603560	2.039835e-02	-0.432387473	0.81219543	1.7428251
[296,]	0.4603560	7.310528e-01	0.937851451	0.64602670	-0.5732061
[297,]	0.4603560	9.201051e-01	0.053760169	0.81219543	-0.5732061
[298,]	1.3594464	-1.881513e+00	-1.404682758	-0.35098564	-0.5732061
[299,]	-1.3378250	-1.781293e+00	-1.306222476	-0.35098564	-0.5732061
[300,]	-1.3378250	4.121694e-01	-0.075468951	0.14752053	-0.5732061
[301,]	1.3594464	-1.715238e+00	-1.265197358	0.47985798	-0.5732061
[302,]	0.4603560	1.551418e+00	1.430152861	-0.68332309	-0.5732061
[303,]	0.4603560	1.307321e+00	2.053734647	1.31070160	-0.5732061
[304,]	0.4603560	-1.791543e+00	-1.269299870	-1.34799799	-0.5732061
[305,]	-1.3378250	4.911310e-01	1.171694621	-0.68332309	-0.5732061
[306,]	-0.4387345	-6.128130e-01	-0.690845714	0.64602670	1.7428251
[307,]	-0.4387345	-2.379035e-03	-0.543155291	-1.51416671	1.7428251
[308,]	0.4603560	2.367835e-01	-0.315465888	-1.18182926	1.7428251
[309,]	-0.4387345	9.330123e-01	1.360410161	-1.01566054	-0.5732061
[310,]	0.4603560	-2.719114e-01	-0.590334176	0.47985798	-0.5732061
[311,]	0.4603560	1.058288e+00	-0.022136298	1.47687032	1.7428251
[312,]	1.3594464	-8.166706e-01	-0.943150186	-0.68332309	1.7428251
[313,]	-1.3378250	-6.781082e-01	-0.809818554	1.14453287	-0.5732061
[314,]	0.4603560	5.746481e-01	1.261949879	1.47687032	-0.5732061
[315,]	-1.3378250	1.201026e+00	1.138874527	0.64602670	-0.5732061
[316,]	-0.4387345	8.593654e-01	0.020940075	-1.18182926	-0.5732061
[317,]	1.3594464	1.432596e+00	1.569638260	0.64602670	-0.5732061
[318,]	-0.4387345	4.349468e-01	-0.428284962	-1.18182926	-0.5732061
[319,]	-1.3378250	-8.033838e-01	-0.227261886	0.14752053	-0.5732061
[320,]	-0.4387345	8.130514e-01	1.011696663	0.14752053	1.7428251

[321,]	0.4603560	1.049936e+00	1.225027274	-0.01864819	-0.5732061
[322,]	1.3594464	4.076139e-01	-0.223159374	0.81219543	-0.5732061
[323,]	0.4603560	-7.616252e-01	-0.854946184	1.14453287	-0.5732061
[324,]	0.4603560	-3.292345e-01	0.486575159	1.64303905	-0.5732061
[325,]	0.4603560	-9.348858e-02	0.539907811	-0.84949181	1.7428251
[326,]	-0.4387345	1.349079e+00	2.098862276	0.81219543	-0.5732061
[327,]	0.4603560	5.196027e-01	0.954261498	-0.35098564	-0.5732061
[328,]	-1.3378250	4.903718e-01	-0.301107097	1.47687032	-0.5732061
[329,]	0.4603560	-3.996172e-02	0.404524924	-0.51715437	1.7428251
[330,]	-1.3378250	1.061932e-01	-0.489822638	0.64602670	1.7428251
[331,]	1.3594464	-3.121515e-01	0.507087717	-0.01864819	-0.5732061
[332,]	1.3594464	9.413640e-01	-0.079571463	-0.18481692	1.7428251
[333,]	0.4603560	-1.792682e+00	-1.334940058	-0.01864819	-0.5732061
[334,]	0.4603560	-1.885689e+00	-1.408785270	-1.68033543	-0.5732061
[335,]	-1.3378250	2.191684e-02	-1.527758110	-0.18481692	-0.5732061
[336,]	-0.4387345	4.702517e-01	-0.040597601	-0.51715437	-0.5732061
[337,]	-0.4387345	-3.258179e-01	-0.518540220	0.47985798	-0.5732061
[338,]	-1.3378250	6.615818e-01	0.074272728	-1.01566054	-0.5732061
[339,]	-0.4387345	1.299728e+00	0.258885756	-0.84949181	-0.5732061
[340,]	1.3594464	-9.424783e-02	-0.588282920	-1.51416671	-0.5732061
[341,]	0.4603560	4.531687e-01	1.130669503	1.47687032	1.7428251
[342,]	1.3594464	6.657576e-01	1.097849409	-0.84949181	-0.5732061
[343,]	0.4603560	1.897103e-01	-1.527758110	0.47985798	1.7428251
[344,]	1.3594464	-1.769904e+00	-1.330837546	0.97836415	-0.5732061
[345,]	1.3594464	5.215008e-01	1.887582921	1.14453287	1.7428251
[346,]	0.4603560	6.854980e-01	0.896826334	-0.51715437	-0.5732061
[347,]	-1.3378250	-5.080370e-01	-0.178031745	-0.51715437	-0.5732061
[348,]	0.4603560	3.939475e-01	0.634265582	-0.01864819	-0.5732061
[349,]	-1.3378250	5.613613e-01	0.995286616	0.64602670	-0.5732061
[350,]	1.3594464	8.100144e-01	1.516305608	-0.51715437	1.7428251
[351,]	1.3594464	4.569649e-01	1.134772015	0.97836415	-0.5732061
[352,]	-1.3378250	-6.439421e-01	-0.054956392	0.31368925	1.7428251
[353,]	1.3594464	-2.515642e-02	-0.457002544	0.97836415	-0.5732061
[354,]	0.4603560	9.542712e-01	-0.194441792	-0.84949181	-0.5732061
[355,]	-1.3378250	5.442782e-01	-0.149314163	-1.68033543	-0.5732061
[356,]	-1.3378250	3.943271e-01	0.831186146	-1.34799799	-0.5732061
[357,]	-0.4387345	6.034994e-01	0.822981122	-1.68033543	-0.5732061
[358,]	0.4603560	4.622796e-01	0.695803258	0.81219543	-0.5732061
[359,]	1.3594464	1.136490e+00	2.718341550	-0.18481692	1.7428251
[360,]	-1.3378250	3.354855e-01	-0.262133236	-0.01864819	-0.5732061
[361,]	-0.4387345	9.580674e-01	1.676303566	-1.34799799	1.7428251
[362,]	-0.4387345	4.805016e-01	0.392217388	0.97836415	1.7428251
[363,]	0.4603560	-1.835959e+00	-1.435451596	-1.01566054	-0.5732061

[364,]	0.4603560	-3.857984e-01	-1.527758110	0.97836415	1.7428251
[365,]	0.4603560	-1.794959e+00	-1.400580246	-0.01864819	1.7428251
[366,]	-1.3378250	-1.870125e+00	-1.453912899	1.31070160	1.7428251
[367,]	-1.3378250	-1.900495e+00	-1.470322946	1.64303905	-0.5732061
[368,]	-1.3378250	4.317574e-02	-0.297004586	-1.51416671	-0.5732061
[369,]	0.4603560	-1.485339e-01	-0.614949246	0.97836415	1.7428251
[370,]	-0.4387345	9.466787e-01	1.663996031	-0.51715437	-0.5732061
[371,]	-0.4387345	-1.148999e-02	0.868108751	-1.68033543	-0.5732061
[372,]	0.4603560	-3.322715e-01	-0.705204505	1.64303905	-0.5732061
[373,]	1.3594464	8.160884e-01	1.245539832	0.64602670	-0.5732061
[374,]	0.4603560	-1.774460e+00	-1.388272711	-0.51715437	1.7428251
[375,]	-1.3378250	3.575037e-01	-0.463156311	1.14453287	-0.5732061
[376,]	-1.3378250	-9.920565e-01	-0.530847755	0.14752053	-0.5732061
[377,]	-1.3378250	5.063159e-01	-0.169826721	1.31070160	-0.5732061
[378,]	0.4603560	-2.795039e-01	0.338884736	0.64602670	-0.5732061
[379,]	-1.3378250	6.731920e-03	-0.621103014	0.14752053	-0.5732061
[380,]	0.4603560	-7.830366e-02	0.556317858	1.31070160	1.7428251
[381,]	1.3594464	-3.288549e-01	-0.621103014	1.47687032	-0.5732061
[382,]	1.3594464	3.817995e-01	0.818878610	1.14453287	-0.5732061
[383,]	0.4603560	-1.105716e-01	-0.389311100	-0.18481692	1.7428251
[384,]	-0.4387345	1.354242e-01	-0.241620677	-1.68033543	1.7428251
[385,]	0.4603560	1.797414e+00	2.209630093	1.47687032	-0.5732061
[386,]	-1.3378250	-1.413211e-01	-0.407772403	0.31368925	-0.5732061
[387,]	-0.4387345	5.306118e-01	1.899890456	1.47687032	-0.5732061
[388,]	0.4603560	3.643369e-01	-0.104186533	-0.35098564	-0.5732061
[389,]	-0.4387345	3.776237e-01	0.814776099	-1.01566054	-0.5732061
[390,]	0.4603560	4.924971e-02	-0.139057883	0.64602670	-0.5732061
[391,]	0.4603560	-1.694132e-01	0.457857576	-0.01864819	-0.5732061
[392,]	-1.3378250	-5.248928e-02	-0.354439750	1.31070160	-0.5732061
[393,]	-0.4387345	-4.413758e-02	-0.467258823	-0.35098564	-0.5732061
[394,]	0.4603560	4.805016e-01	0.712213305	0.64602670	-0.5732061
[395,]	0.4603560	-1.959868e-01	-0.549309058	0.97836415	1.7428251
[396,]	-1.3378250	-1.808626e+00	-1.408785270	1.64303905	-0.5732061
[397,]	-1.3378250	7.766076e-01	-0.274440771	1.14453287	-0.5732061
[398,]	0.4603560	8.365880e-01	1.545023190	-0.35098564	-0.5732061
[399,]	-0.4387345	-1.885689e+00	-1.408785270	1.64303905	-0.5732061
[400,]	-1.3378250	9.132719e-01	1.101951921	-0.51715437	-0.5732061
[401,]	1.3594464	9.538916e-01	-0.073417695	1.14453287	-0.5732061
[402,]	-1.3378250	2.584220e-01	0.355294783	0.47985798	-0.5732061
[403,]	-1.3378250	-3.030405e-01	0.146066683	-0.18481692	1.7428251
[404,]	0.4603560	1.137629e+00	0.016837563	-0.18481692	-0.5732061
[405,]	1.3594464	1.200267e+00	0.047606401	1.14453287	1.7428251
[406,]	1.3594464	1.022603e+00	1.746046266	-1.01566054	-0.5732061

[407,]	1.3594464	5.972673e-03	0.449652553	-1.01566054	-0.5732061
[408,]	-1.3378250	-1.088101e+00	-1.076481818	0.47985798	-0.5732061
[409,]	1.3594464	-3.656783e-01	0.084529007	-0.68332309	-0.5732061
[410,]	1.3594464	-1.885689e+00	-1.468271690	-1.68033543	-0.5732061
[411,]	1.3594464	-1.784710e+00	-1.261094847	0.14752053	-0.5732061
[412,]	-1.3378250	-1.747886e+00	-1.400580246	-0.01864819	-0.5732061
[413,]	0.4603560	6.308323e-01	0.847596193	0.47985798	-0.5732061
[414,]	0.4603560	1.582927e+00	0.088631519	-1.68033543	-0.5732061
[415,]	0.4603560	-1.710683e+00	-1.367760152	-1.34799799	-0.5732061
[416,]	1.3594464	3.191617e-01	-0.385208588	-1.01566054	-0.5732061
[417,]	0.4603560	7.052384e-01	0.304013386	-0.01864819	-0.5732061
[418,]	0.4603560	1.039154e-01	0.753238422	0.64602670	-0.5732061
[419,]	1.3594464	-1.816977e+00	-1.322632523	-0.01864819	-0.5732061
[420,]	-1.3378250	1.630380e+00	1.495793049	0.31368925	-0.5732061
[421,]	0.4603560	6.239991e-01	-0.106237789	-1.51416671	-0.5732061
[422,]	-1.3378250	1.072714e+00	1.245539832	-1.68033543	-0.5732061
[423,]	-1.3378250	1.457651e+00	1.352205138	1.14453287	-0.5732061
[424,]	-1.3378250	2.937270e-01	-0.284697050	-0.18481692	-0.5732061
[425,]	1.3594464	4.531687e-01	-0.198544304	-0.84949181	1.7428251
[426,]	-1.3378250	5.321303e-01	-0.280594539	-1.51416671	1.7428251
[427,]	0.4603560	2.026174e-01	-0.333927191	1.31070160	-0.5732061
[428,]	-1.3378250	2.925881e-01	-0.147262907	0.97836415	-0.5732061
[429,]	-1.3378250	6.384248e-01	0.258885756	0.47985798	1.7428251
[430,]	1.3594464	1.077117e-01	-0.385208588	1.47687032	-0.5732061
[431,]	0.4603560	3.609203e-01	-0.364696029	-0.68332309	-0.5732061
[432,]	-1.3378250	5.608292e-02	0.498882694	-0.01864819	-0.5732061
[433,]	-1.3378250	8.759164e-02	-0.270338259	-0.01864819	1.7428251
[434,]	1.3594464	2.140061e-01	0.872211263	-1.01566054	-0.5732061
[435,]	1.3594464	2.686719e-01	-0.161621698	-1.68033543	-0.5732061
[436,]	-1.3378250	7.796446e-01	-0.022136298	-1.51416671	-0.5732061
[437,]	0.4603560	-4.180663e-01	-0.573924129	-1.34799799	-0.5732061
[438,]	0.4603560	-1.763830e+00	-1.396477734	-0.01864819	1.7428251
[439,]	-0.4387345	-1.885689e+00	-1.408785270	-0.18481692	-0.5732061
[440,]	-0.4387345	-1.782811e+00	-1.406734014	0.81219543	-0.5732061
[441,]	0.4603560	1.695902e-01	-0.221108118	0.14752053	-0.5732061
[442,]	1.3594464	1.104602e+00	1.274257415	0.47985798	-0.5732061
[443,]	-1.3378250	6.657576e-01	-0.214954351	-0.68332309	1.7428251
[444,]	-0.4387345	-1.863671e+00	-1.408785270	-0.51715437	-0.5732061
[445,]	-1.3378250	-1.725868e+00	-1.375965176	1.47687032	-0.5732061
[446,]	-0.4387345	7.392521e-02	-0.278543283	-1.01566054	1.7428251
[447,]	1.3594464	-1.314509e-01	-0.514437708	-0.01864819	-0.5732061
[448,]	0.4603560	6.031198e-01	1.036311733	0.64602670	-0.5732061
[449,]	-1.3378250	3.278931e-01	0.995286616	1.31070160	-0.5732061

[450,]	1.3594464	9.121330e-01	-0.093930254	0.31368925	-0.5732061
[451,]	-0.4387345	1.217577e-01	-0.249825700	1.14453287	-0.5732061
[452,]	-1.3378250	1.191004e-01	1.344000114	-0.35098564	-0.5732061
[453,]	-1.3378250	-1.843931e+00	-1.367760152	-1.34799799	-0.5732061
[454,]	-0.4387345	2.994213e-01	-0.143160395	-0.35098564	-0.5732061
[455,]	1.3594464	-1.568856e-01	-0.619051758	0.97836415	-0.5732061
[456,]	-1.3378250	1.605325e+00	2.020914553	0.31368925	-0.5732061
[457,]	-0.4387345	-1.722831e+00	-1.388272711	-0.35098564	-0.5732061
[458,]	-0.4387345	1.022603e+00	1.200412203	0.97836415	1.7428251
[459,]	0.4603560	1.924588e+00	0.242475709	-1.34799799	-0.5732061
[460,]	1.3594464	1.011215e+00	1.733738730	-1.68033543	-0.5732061
[461,]	0.4603560	8.870779e-01	-0.106237789	-1.34799799	1.7428251
[462,]	0.4603560	2.527277e-01	0.507087717	-0.68332309	-0.5732061
[463,]	-0.4387345	-1.937091e-01	-0.303158353	1.31070160	1.7428251
[464,]	-1.3378250	1.204443e+00	1.627073425	1.31070160	-0.5732061
[465,]	0.4603560	3.335874e-01	-0.122647836	0.14752053	-0.5732061
[466,]	-0.4387345	1.083343e+00	0.141964172	-1.18182926	-0.5732061
[467,]	-0.4387345	2.105895e-01	0.650675629	0.31368925	-0.5732061
[468,]	-1.3378250	-5.410642e-01	-0.807767298	0.31368925	-0.5732061
[469,]	0.4603560	1.798401e-01	0.441447529	1.64303905	-0.5732061
[470,]	0.4603560	1.242627e-02	-0.315465888	-1.51416671	-0.5732061
[471,]	1.3594464	2.064137e-01	-0.331875935	1.47687032	1.7428251
[472,]	0.4603560	4.463355e-01	-0.054956392	-0.35098564	-0.5732061
[473,]	-1.3378250	1.428041e+00	1.565535749	-0.84949181	-0.5732061
[474,]	-1.3378250	-1.738016e+00	-1.285709917	-0.68332309	-0.5732061
[475,]	0.4603560	-1.760414e+00	-1.406734014	0.97836415	1.7428251
[476,]	-0.4387345	1.153041e-01	-0.381106076	1.64303905	-0.5732061
[477,]	1.3594464	4.152064e-01	-0.219056862	-1.18182926	1.7428251
[478,]	-0.4387345	2.010989e-01	-0.036495089	-1.51416671	1.7428251
[479,]	0.4603560	-1.767626e+00	-1.398528990	-0.68332309	1.7428251
[480,]	-0.4387345	1.964448e+00	2.373730563	-1.01566054	1.7428251
[481,]	0.4603560	6.448784e-01	1.077336851	-1.01566054	-0.5732061
[482,]	-1.3378250	3.810403e-01	1.052721780	0.14752053	-0.5732061
[483,]	1.3594464	2.584220e-01	-0.167775465	-0.18481692	1.7428251
[484,]	-1.3378250	1.087139e+00	1.815788965	1.31070160	-0.5732061
[485,]	-1.3378250	-1.086735e-01	1.549125702	0.64602670	-0.5732061
[486,]	-0.4387345	-1.735891e-01	0.273244548	-1.68033543	-0.5732061
[487,]	-1.3378250	2.356447e-01	-0.426233706	-0.35098564	-0.5732061
[488,]	-1.3378250	3.962252e-01	1.069131827	1.14453287	-0.5732061
[489,]	1.3594464	4.903718e-01	0.925543916	1.31070160	-0.5732061
[490,]	0.4603560	8.555692e-01	0.851698704	-0.01864819	1.7428251
[491,]	-0.4387345	-1.921374e+00	-1.476476714	-0.01864819	-0.5732061
[492,]	1.3594464	4.773121e-02	-0.602641711	0.31368925	-0.5732061

[493,]	0.4603560	6.308323e-01	0.847596193	0.31368925	-0.5732061
[494,]	0.4603560	5.347877e-01	0.585035441	1.64303905	-0.5732061
[495,]	1.3594464	4.265951e-01	1.101951921	1.47687032	1.7428251
[496,]	1.3594464	1.040825e+00	1.216822250	1.31070160	-0.5732061
[497,]	0.4603560	-1.829125e+00	-1.421092805	-1.01566054	-0.5732061
[498,]	-0.4387345	-4.989261e-01	-0.169826721	-0.51715437	-0.5732061
[499,]	-1.3378250	4.068547e-01	-0.342132215	-1.34799799	1.7428251
[500,]	-0.4387345	7.785057e-01	1.208617227	1.31070160	-0.5732061
[501,]	1.3594464	1.287960e+00	0.090682775	-0.35098564	-0.5732061
[502,]	0.4603560	-1.162660e-01	0.515292741	1.64303905	-0.5732061
[503,]	-0.4387345	9.330123e-01	-0.083673975	-0.01864819	-0.5732061
[504,]	-1.3378250	-3.782059e-01	0.232219430	-1.01566054	-0.5732061
[505,]	-1.3378250	3.634252e-02	0.925543916	1.64303905	1.7428251
[506,]	-0.4387345	1.695902e-01	1.085541874	-1.18182926	-0.5732061
[507,]	-0.4387345	1.925948e-02	-0.311363377	0.97836415	-0.5732061
[508,]	0.4603560	3.817995e-01	0.457857576	-0.01864819	-0.5732061
[509,]	-0.4387345	3.316893e-01	-0.264184492	-0.35098564	-0.5732061
[510,]	-1.3378250	8.084959e-01	-0.260081980	-0.51715437	-0.5732061
[511,]	-1.3378250	1.033992e+00	0.297859618	1.64303905	-0.5732061
[512,]	1.3594464	-1.757756e+00	-1.359555129	-0.35098564	-0.5732061
[513,]	-0.4387345	2.253948e-01	0.884518798	-1.34799799	-0.5732061
[514,]	0.4603560	3.292591e-02	0.921441404	1.31070160	1.7428251
[515,]	-1.3378250	2.937270e-01	-0.491873894	-0.68332309	-0.5732061
[516,]	1.3594464	-6.496364e-01	-0.194441792	-0.68332309	-0.5732061
[517,]	0.4603560	-3.804836e-01	-0.795459763	-0.18481692	-0.5732061
[518,]	-1.3378250	1.332376e+00	1.479383002	-1.01566054	1.7428251
[519,]	-1.3378250	-1.921906e-01	-0.547257802	0.64602670	-0.5732061
[520,]	-0.4387345	-1.861014e+00	-1.396477734	1.47687032	-0.5732061
[521,]	0.4603560	9.163089e-01	1.344000114	-0.18481692	-0.5732061
[522,]	1.3594464	1.338070e+00	1.758353801	-0.35098564	-0.5732061
[523,]	0.4603560	-1.944683e-01	-0.637513061	-0.01864819	-0.5732061
[524,]	-0.4387345	2.314688e-01	-0.428284962	-0.18481692	-0.5732061
[525,]	0.4603560	-1.924790e+00	-1.429297828	-0.18481692	-0.5732061
[526,]	-0.4387345	-1.745229e+00	-1.419041549	-1.34799799	-0.5732061
[527,]	-1.3378250	9.872984e-01	-0.057007648	1.31070160	-0.5732061
[528,]	-0.4387345	-1.904291e+00	-1.466220434	1.31070160	-0.5732061
[529,]	-0.4387345	8.768281e-01	-0.229313142	0.81219543	-0.5732061
[530,]	1.3594464	8.620228e-01	-0.118545324	0.81219543	1.7428251
[531,]	1.3594464	1.418930e+00	1.557330725	-1.68033543	-0.5732061
[532,]	-1.3378250	1.066640e+00	1.491690537	-0.84949181	-0.5732061
[533,]	1.3594464	9.952705e-01	-0.175980489	1.14453287	-0.5732061
[534,]	1.3594464	-1.747886e+00	-1.273402382	0.64602670	-0.5732061
[535,]	0.4603560	3.692720e-01	-0.360593518	0.14752053	-0.5732061



[536,]	-1.3378250	-1.756396e-02	-0.184185512	-0.01864819	1.7428251
[537,]	1.3594464	4.068547e-01	-0.342132215	-0.18481692	-0.5732061
[538,]	-0.4387345	3.240968e-01	-0.268287003	-1.68033543	-0.5732061
[539,]	1.3594464	-1.828366e+00	-1.334940058	0.31368925	1.7428251
[540,]	0.4603560	8.077367e-01	1.237334809	1.64303905	-0.5732061
[541,]	0.4603560	1.150157e+00	-0.106237789	0.97836415	-0.5732061
[542,]	0.4603560	-1.597176e+00	-1.187249635	1.31070160	-0.5732061
[543,]	1.3594464	-1.819408e-01	0.265039524	1.47687032	-0.5732061
[544,]	-1.3378250	-6.957232e-02	-0.364696029	-1.51416671	-0.5732061
[545,]	-0.4387345	-3.637802e-01	-1.527758110	-1.51416671	1.7428251
[546,]	1.3594464	8.935315e-01	1.606560866	-0.35098564	-0.5732061
[547,]	0.4603560	8.578469e-01	1.286564950	-0.51715437	-0.5732061
[548,]	-0.4387345	6.126104e-01	1.302974997	-1.68033543	1.7428251
[549,]	0.4603560	-1.678795e+00	-1.232377264	0.47985798	-0.5732061
[550,]	-0.4387345	5.446579e-01	0.978876569	-1.51416671	-0.5732061
[551,]	1.3594464	-3.933908e-01	-0.655974364	-1.01566054	-0.5732061
[552,]	-0.4387345	1.273155e+00	1.426050349	-0.68332309	-0.5732061
[553,]	0.4603560	-1.831403e+00	-1.355452617	0.64602670	1.7428251
[554,]	0.4603560	-1.743710e+00	-1.398528990	1.31070160	-0.5732061
[555,]	0.4603560	-4.237607e-01	0.182989289	1.31070160	-0.5732061
[556,]	-0.4387345	9.288364e-01	1.356307649	1.47687032	1.7428251
[557,]	1.3594464	-1.818876e+00	-1.343145082	0.97836415	-0.5732061
[558,]	0.4603560	-1.810903e+00	-1.351350105	-0.18481692	-0.5732061
[559,]	-0.4387345	-1.074055e+00	-0.967765257	0.14752053	1.7428251
[560,]	-1.3378250	3.102780e-02	-0.526745244	0.97836415	-0.5732061
[561,]	-0.4387345	-3.782059e-01	-0.727768319	0.81219543	-0.5732061
[562,]	-1.3378250	1.185841e+00	1.922454271	0.64602670	1.7428251
[563,]	1.3594464	3.301708e-01	-0.124699092	0.47985798	-0.5732061
[564,]	-1.3378250	-3.273364e-01	-0.393413612	-1.34799799	-0.5732061
[565,]	1.3594464	1.836363e-01	0.839391169	-0.51715437	-0.5732061
[566,]	0.4603560	2.094279e+00	1.881429153	-0.51715437	-0.5732061
[567,]	-1.3378250	5.456443e-02	0.699905770	0.81219543	-0.5732061
[568,]	0.4603560	-7.813656e-01	-0.424182450	0.81219543	1.7428251
[569,]	-0.4387345	1.204822e+00	1.942966830	0.31368925	-0.5732061
[570,]	1.3594464	6.391840e-01	-0.098032766	0.47985798	-0.5732061
[571,]	-0.4387345	-6.249609e-01	-0.781100972	-1.18182926	-0.5732061
[572,]	0.4603560	-5.824431e-01	-0.565719105	0.81219543	-0.5732061
[573,]	1.3594464	9.956501e-01	1.421947837	1.47687032	-0.5732061
[574,]	0.4603560	5.659168e-01	0.016837563	1.31070160	1.7428251
[575,]	-1.3378250	-2.073755e-01	0.416832459	-0.18481692	1.7428251
[576,]	0.4603560	6.923312e-01	-0.069315183	0.47985798	-0.5732061
[577,]	0.4603560	6.277953e-01	1.319385044	1.14453287	-0.5732061
[578,]	-0.4387345	8.113805e-02	-0.502130173	-1.51416671	1.7428251

[579,]	1.3594464	-6.729459e-02	0.084529007	-0.35098564	-0.5732061
[580,]	1.3594464	4.303913e-01	-0.210851839	0.31368925	1.7428251
[581,]	-1.3378250	5.488337e-01	0.982979080	0.14752053	-0.5732061
[582,]	-1.3378250	8.829020e-01	-0.108289045	-1.01566054	-0.5732061
[583,]	-0.4387345	1.220767e+00	1.155284574	0.81219543	-0.5732061
[584,]	-0.4387345	5.780647e-01	1.011696663	0.64602670	-0.5732061
[585,]	0.4603560	-1.777876e+00	-1.390323967	0.31368925	-0.5732061
[586,]	1.3594464	-1.813181e+00	-1.318530011	-0.84949181	-0.5732061
[587,]	1.3594464	-1.832542e+00	-1.423144061	1.31070160	-0.5732061
[588,]	0.4603560	7.416822e-01	-0.042648857	-1.01566054	1.7428251
[589,]	1.3594464	6.847388e-01	1.380922720	-0.51715437	-0.5732061
[590,]	1.3594464	4.645574e-01	-0.192390536	0.97836415	-0.5732061
[591,]	-0.4387345	4.326690e-01	-1.527758110	-1.01566054	-0.5732061
[592,]	-0.4387345	1.029057e+00	-0.036495089	-1.51416671	1.7428251
[593,]	-1.3378250	1.422574e-01	-0.237518165	-1.68033543	-0.5732061
[594,]	-0.4387345	1.204443e+00	0.049657657	-0.84949181	1.7428251
[595,]	-0.4387345	5.283341e-01	-0.005726251	-1.51416671	-0.5732061
[596,]	0.4603560	2.140061e-01	-1.527758110	-0.68332309	-0.5732061
[597,]	-1.3378250	-1.816977e+00	-1.425195317	-0.35098564	-0.5732061
[598,]	-0.4387345	-1.816977e+00	-1.425195317	0.47985798	1.7428251
[599,]	1.3594464	6.025878e-02	-0.286748306	0.31368925	-0.5732061
[600,]	1.3594464	3.438372e-01	-0.116494069	-0.35098564	-0.5732061
[601,]	0.4603560	-3.478361e-01	-0.631359293	0.31368925	1.7428251
[602,]	-1.3378250	4.258358e-01	-0.067263928	-1.34799799	-0.5732061
[603,]	-0.4387345	8.113805e-02	0.523497764	0.47985798	1.7428251
[604,]	1.3594464	-1.839755e+00	-1.527758110	-0.84949181	-0.5732061
[605,]	-0.4387345	7.128309e-01	-0.303158353	0.47985798	-0.5732061
[606,]	-1.3378250	3.370040e-01	-0.120596580	-1.34799799	-0.5732061
[607,]	1.3594464	1.760438e-01	-0.348285982	0.81219543	-0.5732061
[608,]	-1.3378250	-1.676517e+00	-1.349298849	-0.35098564	-0.5732061
[609,]	-0.4387345	9.201051e-01	1.635278448	-1.51416671	-0.5732061
[610,]	-1.3378250	2.481722e-01	-0.173929233	-1.68033543	-0.5732061
[611,]	-1.3378250	7.696219e-02	0.519395253	0.14752053	-0.5732061
[612,]	-0.4387345	8.035608e-01	-0.147262907	-0.01864819	-0.5732061
[613,]	0.4603560	3.275134e-01	0.765545958	-1.18182926	-0.5732061
[614,]	0.4603560	1.013492e+00	-0.167775465	-0.35098564	-0.5732061
[615,]	-0.4387345	-1.820774e+00	-1.427246573	0.81219543	-0.5732061
[616,]	-1.3378250	9.455399e-01	1.372717696	-0.84949181	-0.5732061
[617,]	0.4603560	8.289956e-01	0.004530028	0.31368925	1.7428251
[618,]	0.4603560	-4.655192e-01	-0.694948225	0.81219543	-0.5732061
[619,]	-1.3378250	-2.882352e-01	0.535805300	0.14752053	-0.5732061
[620,]	1.3594464	-2.195234e-01	-0.649820596	0.14752053	-0.5732061
[621,]	-1.3378250	-4.617230e-01	-0.692896969	-0.84949181	1.7428251

[622,]	-0.4387345	-6.913950e-01	-0.235466909	-1.51416671	-0.5732061
[623,]	-1.3378250	-1.885310e+00	-1.445707875	1.14453287	-0.5732061
[624,]	-0.4387345	9.914742e-01	-0.054956392	-1.34799799	1.7428251
[625,]	-1.3378250	-1.772941e+00	-1.412887781	-1.51416671	-0.5732061
[626,]	-0.4387345	1.229498e+00	1.651688495	-1.01566054	-0.5732061
[627,]	0.4603560	7.583857e-01	0.962466522	0.81219543	-0.5732061
[628,]	0.4603560	-1.777117e+00	-1.302119964	0.81219543	-0.5732061
[629,]	1.3594464	1.329718e+00	1.750148777	1.47687032	1.7428251
[630,]	0.4603560	2.899308e-01	0.728623352	-1.01566054	1.7428251
[631,]	-0.4387345	1.342246e+00	1.762456313	0.47985798	-0.5732061
[632,]	0.4603560	3.102780e-02	0.474267623	-0.18481692	-0.5732061
[633,]	0.4603560	3.558328e-02	-0.424182450	0.14752053	-0.5732061
[634,]	0.4603560	5.684217e-02	-0.598539199	-1.68033543	1.7428251
[635,]	1.3594464	5.608292e-02	0.498882694	-0.68332309	-0.5732061
[636,]	0.4603560	-1.898217e+00	-1.421092805	-1.34799799	1.7428251
[637,]	-0.4387345	-1.798376e+00	-1.527758110	-1.01566054	-0.5732061
[638,]	0.4603560	-1.727007e+00	-1.390323967	-1.34799799	-0.5732061
[639,]	-1.3378250	-7.830366e-02	-0.485720126	-1.34799799	1.7428251
[640,]	-0.4387345	-4.305939e-01	-0.463156311	1.47687032	-0.5732061
[641,]	1.3594464	1.396532e+00	0.144015427	-0.01864819	-0.5732061
[642,]	1.3594464	-5.000649e-01	-1.527758110	-1.18182926	-0.5732061
[643,]	-1.3378250	3.567444e-01	-0.366747285	-1.68033543	-0.5732061
[644,]	-0.4387345	-3.578587e-02	0.408627435	-0.68332309	1.7428251
[645,]	0.4603560	2.267609e-02	0.466062600	0.64602670	-0.5732061
[646,]	-0.4387345	1.608589e-01	-0.356491006	1.47687032	-0.5732061
[647,]	1.3594464	9.330123e-01	1.360410161	-0.18481692	-0.5732061
[648,]	0.4603560	5.860368e-01	-0.126750348	-0.35098564	-0.5732061
[649,]	0.4603560	-1.814700e+00	-1.433400340	1.14453287	-0.5732061
[650,]	0.4603560	2.481722e-01	-0.173929233	-1.68033543	1.7428251
[651,]	0.4603560	6.479153e-01	-1.527758110	1.31070160	1.7428251
[652,]	-0.4387345	9.428825e-01	0.066067704	0.47985798	-0.5732061
[653,]	-0.4387345	6.031198e-01	1.036311733	0.31368925	1.7428251
[654,]	1.3594464	1.450818e+00	1.869121618	-1.68033543	-0.5732061
[655,]	1.3594464	-1.709317e-01	-0.701101993	-0.84949181	-0.5732061
[656,]	-0.4387345	1.599630e+00	0.420934971	-0.68332309	-0.5732061
[657,]	1.3594464	-1.858736e+00	-1.367760152	0.81219543	-0.5732061
[658,]	1.3594464	2.481722e-01	0.909133869	0.81219543	1.7428251
[659,]	-1.3378250	2.789217e-01	-0.155467930	1.31070160	-0.5732061
[660,]	1.3594464	-3.516323e-01	0.260937012	0.81219543	-0.5732061
[661,]	-1.3378250	3.772441e-01	-0.239569421	1.14453287	-0.5732061
[662,]	1.3594464	2.519684e-01	0.913236381	0.14752053	-0.5732061
[663,]	-1.3378250	2.267609e-02	-0.309312121	0.64602670	-0.5732061
[664,]	-0.4387345	-4.241403e-01	0.027093843	-1.01566054	-0.5732061

[665,]	-0.4387345	3.886328e-01	-0.233415653	-0.84949181	-0.5732061
[666,]	-0.4387345	3.802811e-01	-0.452900032	0.31368925	1.7428251
[667,]	0.4603560	8.555692e-01	2.041427112	0.14752053	1.7428251
[668,]	-0.4387345	-2.529303e-01	-0.666230643	-1.34799799	-0.5732061
[669,]	0.4603560	2.140061e-01	-0.327773424	0.81219543	-0.5732061
[670,]	1.3594464	5.078344e-01	0.736828375	-0.35098564	-0.5732061
[671,]	1.3594464	4.774646e-01	0.150169195	1.47687032	-0.5732061
[672,]	1.3594464	4.303913e-01	0.667085676	-0.51715437	-0.5732061
[673,]	-1.3378250	-7.798471e-01	-0.699050737	-0.84949181	-0.5732061
[674,]	-0.4387345	-7.358109e-01	-0.764690925	0.97836415	-0.5732061
[675,]	-0.4387345	-1.842792e+00	-1.429297828	-1.68033543	-0.5732061
[676,]	0.4603560	-1.847347e+00	-1.355452617	0.47985798	-0.5732061
[677,]	-1.3378250	1.938861e-01	0.634265582	0.14752053	-0.5732061
[678,]	0.4603560	-1.842792e+00	-1.527758110	-0.35098564	-0.5732061
[679,]	0.4603560	6.239991e-01	1.315282532	0.81219543	-0.5732061
[680,]	0.4603560	-7.737732e-01	-0.694948225	-1.34799799	-0.5732061
[681,]	0.4603560	2.891715e-01	-0.149314163	-0.68332309	-0.5732061
[682,]	-1.3378250	-1.906569e+00	-1.437502852	1.64303905	-0.5732061
[683,]	1.3594464	-1.777117e+00	-1.414939037	0.64602670	-0.5732061
[684,]	-1.3378250	-3.857984e-01	-0.651871852	-1.68033543	1.7428251
[685,]	1.3594464	-4.784264e-01	-0.776998460	-1.51416671	1.7428251
[686,]	-1.3378250	-1.086735e-01	-0.502130173	0.47985798	-0.5732061
[687,]	-0.4387345	-1.861014e+00	-1.396477734	-1.18182926	-0.5732061
[688,]	0.4603560	1.633797e+00	1.282462438	-1.01566054	-0.5732061
[689,]	1.3594464	1.251743e-01	-0.247774445	-0.51715437	-0.5732061
[690,]	1.3594464	3.859754e-01	-0.352388494	-1.51416671	-0.5732061
[691,]	0.4603560	4.026788e-01	-0.344183471	-1.01566054	-0.5732061
[692,]	0.4603560	-3.197439e-01	0.129656636	0.31368925	1.7428251
[693,]	-0.4387345	-1.756238e+00	-1.281607405	-0.01864819	-0.5732061
[694,]	-1.3378250	9.239013e-01	0.451703809	-1.51416671	-0.5732061
[695,]	-1.3378250	1.570627e-01	-1.527758110	1.31070160	-0.5732061
[696,]	-0.4387345	-1.904291e+00	-1.466220434	0.14752053	-0.5732061
[697,]	-0.4387345	-2.111717e-01	-0.645718084	0.14752053	-0.5732061
[698,]	1.3594464	8.531390e-02	-0.500078917	-0.51715437	-0.5732061
[699,]	-1.3378250	-1.842792e+00	-1.429297828	-0.51715437	-0.5732061
[700,]	0.4603560	6.034994e-01	0.822981122	-1.18182926	1.7428251
[701,]	-0.4387345	8.176069e-01	1.524510631	-0.35098564	1.7428251
[702,]	-0.4387345	-6.667195e-01	-0.803664787	-1.51416671	1.7428251
[703,]	1.3594464	-1.906569e+00	-1.429297828	-0.84949181	-0.5732061
[704,]	-0.4387345	2.781624e-01	-0.578026640	1.47687032	1.7428251
[705,]	1.3594464	-4.283162e-01	-0.752383390	1.64303905	1.7428251
[706,]	-1.3378250	2.140061e-01	0.872211263	-1.68033543	1.7428251
[707,]	1.3594464	1.004381e+00	1.184002156	-1.34799799	-0.5732061

[708,]	0.4603560	1.129277e+00	0.012735052	-0.51715437	1.7428251
[709,]	1.3594464	9.770486e-01	1.159387086	-0.18481692	1.7428251
[710,]	0.4603560	-5.590589e-02	-0.356491006	0.31368925	1.7428251
[711,]	-1.3378250	6.581652e-01	-0.087776486	1.14453287	1.7428251
[712,]	-0.4387345	-1.820774e+00	-1.427246573	1.64303905	-0.5732061
[713,]	1.3594464	5.169454e-01	-0.391362356	1.14453287	1.7428251
[714,]	-0.4387345	-9.424783e-02	-0.588282920	0.31368925	1.7428251
[715,]	0.4603560	4.360856e-01	0.502985206	-1.18182926	-0.5732061
[716,]	1.3594464	9.632297e-02	-0.391362356	-0.18481692	1.7428251
[717,]	0.4603560	-1.124697e-01	-0.504181429	-1.18182926	-0.5732061
[718,]	1.3594464	8.358288e-01	1.032209221	-0.84949181	-0.5732061
[719,]	-1.3378250	2.010383e+00	1.811686454	-0.51715437	-0.5732061
[720,]	-1.3378250	-1.735358e+00	-1.261094847	-0.35098564	-0.5732061
[721,]	-1.3378250	1.115079e-01	0.761443446	-0.18481692	-0.5732061
[722,]	1.3594464	-1.785469e+00	-1.310324988	1.64303905	-0.5732061
[723,]	-0.4387345	1.254173e+00	1.996299482	-0.01864819	1.7428251
[724,]	1.3594464	-1.736877e+00	-1.365708896	-0.01864819	-0.5732061
[725,]	-1.3378250	-6.037020e-01	-0.149314163	0.31368925	-0.5732061
[726,]	-1.3378250	4.379838e-01	-0.206749327	-1.34799799	-0.5732061
[727,]	1.3594464	-1.933901e+00	-1.429297828	0.97836415	-0.5732061
[728,]	-0.4387345	1.262905e+00	1.684508589	0.64602670	1.7428251
[729,]	1.3594464	1.112574e+00	1.536818166	-1.68033543	1.7428251
[730,]	-1.3378250	-9.728481e-02	0.535805300	-1.01566054	1.7428251
[731,]	-1.3378250	-3.288549e-01	-0.621103014	-1.34799799	-0.5732061
[732,]	0.4603560	5.237786e-01	-0.284697050	0.14752053	-0.5732061
[733,]	1.3594464	9.664191e-01	-0.067263928	0.31368925	-0.5732061
[734,]	-0.4387345	1.980772e+00	1.787071383	-1.01566054	-0.5732061
[735,]	-0.4387345	-8.209989e-02	-0.487771382	0.14752053	-0.5732061
[736,]	-0.4387345	-6.273911e-02	0.806571075	1.64303905	-0.5732061
[737,]	-0.4387345	-3.882285e-02	0.244526965	-0.68332309	-0.5732061
[738,]	1.3594464	-2.379035e-03	-0.444695009	0.14752053	-0.5732061
[739,]	-1.3378250	8.873051e-02	0.359397294	-1.18182926	-0.5732061
[740,]	1.3594464	-1.661332e+00	-1.240582288	-0.35098564	-0.5732061
[741,]	1.3594464	5.594632e-01	1.245539832	0.31368925	-0.5732061
[742,]	0.4603560	-4.579268e-01	-0.132904116	-0.18481692	-0.5732061
[743,]	-0.4387345	1.201026e+00	1.138874527	0.97836415	1.7428251
[744,]	0.4603560	7.116920e-01	1.142977039	1.14453287	1.7428251
[745,]	0.4603560	2.937270e-01	-0.284697050	0.31368925	1.7428251
[746,]	1.3594464	1.077269e+00	-0.139057883	0.47985798	1.7428251
[747,]	1.3594464	-8.944933e-01	-0.926740139	0.81219543	-0.5732061
[748,]	-0.4387345	8.954296e-01	-0.102135277	-1.68033543	-0.5732061
[749,]	1.3594464	-1.314509e-01	0.498882694	0.81219543	-0.5732061
[750,]	-0.4387345	1.429939e+00	1.848609059	-0.35098564	-0.5732061

[751,]	-0.4387345	-1.701952e+00	-1.228274753	-1.68033543	-0.5732061
[752,]	-1.3378250	4.190026e-01	-0.217005606	-0.68332309	-0.5732061
[753,]	0.4603560	-5.399253e-01	-0.537001523	-1.34799799	-0.5732061
[754,]	-0.4387345	-4.317328e-01	0.363499806	-0.18481692	-0.5732061
[755,]	-1.3378250	9.956501e-01	1.421947837	1.14453287	-0.5732061
[756,]	-1.3378250	1.330098e+00	2.078349717	-1.68033543	-0.5732061
[757,]	1.3594464	2.039835e-02	-0.432387473	-1.51416671	-0.5732061
[758,]	1.3594464	-3.161001e-02	0.412729947	-1.68033543	-0.5732061
[759,]	0.4603560	1.108398e+00	1.532715655	-0.01864819	-0.5732061
[760,]	1.3594464	-1.709317e-01	0.125554125	-1.34799799	-0.5732061
[761,]	-0.4387345	-2.173981e-02	-0.335978447	-1.34799799	-0.5732061
[762,]	1.3594464	5.822405e-01	1.015799174	0.31368925	1.7428251
[763,]	-0.4387345	2.994213e-01	1.241437321	1.64303905	1.7428251
[764,]	0.4603560	4.820200e-01	0.917338892	1.64303905	1.7428251
[765,]	1.3594464	6.615818e-01	1.093746898	1.14453287	-0.5732061
[766,]	-1.3378250	-2.984851e-01	-0.502130173	-0.35098564	-0.5732061
[767,]	-0.4387345	3.392818e-01	1.007594151	0.31368925	-0.5732061
[768,]	-1.3378250	4.444374e-01	-0.323670912	-0.68332309	-0.5732061
[769,]	-1.3378250	6.695539e-01	-0.081622719	0.31368925	-0.5732061
[770,]	-0.4387345	1.912287e-01	2.035273344	-0.01864819	-0.5732061
[771,]	-1.3378250	1.897103e-01	-0.448797520	0.97836415	-0.5732061
[772,]	-0.4387345	-5.718137e-01	0.195296824	-1.68033543	-0.5732061
[773,]	1.3594464	3.962252e-01	-0.229313142	-0.84949181	-0.5732061
[774,]	-0.4387345	-3.288549e-01	0.285552083	-1.68033543	-0.5732061
[775,]	-1.3378250	-8.041430e-01	-0.805716043	0.14752053	-0.5732061
[776,]	0.4603560	-2.002993e+00	-1.525706855	-0.51715437	-0.5732061
[777,]	-0.4387345	1.320075e-01	-0.243671933	-0.35098564	-0.5732061
[778,]	-1.3378250	6.407025e-01	-0.227261886	-0.35098564	-0.5732061
[779,]	0.4603560	2.891715e-01	-0.493925150	-0.35098564	-0.5732061
[780,]	-0.4387345	1.063603e+00	-0.145211651	-0.01864819	-0.5732061
[781,]	0.4603560	-1.318305e-01	0.314269665	0.64602670	-0.5732061
[782,]	1.3594464	6.262768e-01	0.843493681	0.64602670	-0.5732061
[783,]	-0.4387345	-1.864810e+00	-1.388272711	0.97836415	-0.5732061
[784,]	-0.4387345	-1.814700e+00	-1.433400340	-0.35098564	-0.5732061
[785,]	-1.3378250	-6.454606e-01	-0.859048695	-0.01864819	1.7428251
[786,]	-0.4387345	-1.067754e-01	0.051708913	0.47985798	1.7428251
[787,]	-1.3378250	2.356447e-01	0.675290699	1.14453287	-0.5732061
[788,]	0.4603560	-9.271409e-01	-0.879561254	0.31368925	-0.5732061
[789,]	-0.4387345	-2.779854e-01	0.170681754	-1.18182926	1.7428251
[790,]	-1.3378250	-5.376476e-01	0.059913937	1.14453287	-0.5732061
[791,]	-0.4387345	-1.785469e+00	-1.310324988	0.97836415	-0.5732061
[792,]	0.4603560	1.661736e-01	-0.549309058	-1.68033543	1.7428251
[793,]	1.3594464	-2.529303e-01	-0.666230643	1.64303905	-0.5732061

[794,]	-0.4387345	1.836363e-01	-0.344183471	-0.35098564	-0.5732061
[795,]	-1.3378250	1.251743e-01	-0.567770361	-1.68033543	-0.5732061
[796,]	1.3594464	-3.212624e-01	-0.389311100	-1.01566054	-0.5732061
[797,]	1.3594464	1.513456e+00	1.930659294	-0.18481692	1.7428251
[798,]	-0.4387345	-8.413461e-01	-0.898022557	1.64303905	-0.5732061
[799,]	-1.3378250	1.418777e-01	0.794263540	-1.01566054	-0.5732061
[800,]	-0.4387345	-1.856458e+00	-1.392375223	-1.18182926	-0.5732061
[801,]	1.3594464	-6.857006e-01	-0.813921066	-1.01566054	-0.5732061
[802,]	-1.3378250	1.011215e+00	0.102990310	-0.84949181	-0.5732061
[803,]	0.4603560	1.191004e-01	-0.379054821	0.64602670	-0.5732061
[804,]	-1.3378250	7.743298e-01	1.811686454	1.47687032	1.7428251
[805,]	1.3594464	-1.818876e+00	-1.343145082	-1.68033543	-0.5732061
[806,]	-0.4387345	-1.845981e-01	-0.543155291	1.31070160	-0.5732061
[807,]	-0.4387345	-2.515642e-02	0.613753023	-0.01864819	-0.5732061
[808,]	1.3594464	7.948295e-01	0.995286616	-1.68033543	-0.5732061
[809,]	0.4603560	9.618636e-01	1.680406078	0.64602670	-0.5732061
[810,]	1.3594464	8.873051e-02	1.302974997	1.64303905	1.7428251
[811,]	0.4603560	1.593404e-01	-0.227261886	1.14453287	-0.5732061
[812,]	1.3594464	-1.829125e+00	-1.421092805	1.31070160	-0.5732061
[813,]	-1.3378250	9.009658e-03	-0.438541241	-0.01864819	1.7428251
[814,]	0.4603560	-1.873162e+00	-1.396477734	1.31070160	-0.5732061
[815,]	-0.4387345	7.606634e-01	1.462972955	0.81219543	-0.5732061
[816,]	-0.4387345	6.771463e-01	-0.077520207	0.47985798	-0.5732061
[817,]	-1.3378250	2.774032e-01	-0.405721147	0.14752053	-0.5732061
[818,]	-0.4387345	8.327918e-01	1.261949879	0.64602670	1.7428251
[819,]	-1.3378250	-1.851144e+00	-1.359555129	0.64602670	-0.5732061
[820,]	1.3594464	3.275134e-01	-0.381106076	0.64602670	-0.5732061
[821,]	-1.3378250	-1.733460e+00	-1.380067687	-1.01566054	-0.5732061
[822,]	-1.3378250	-2.946888e-01	0.154271707	0.97836415	-0.5732061
[823,]	1.3594464	5.237786e-01	0.958364010	0.14752053	-0.5732061
[824,]	0.4603560	8.935315e-01	1.606560866	-1.34799799	1.7428251
[825,]	-0.4387345	2.064137e-01	0.646573117	-0.68332309	-0.5732061
[826,]	-0.4387345	1.688310e-01	-0.459053800	-0.51715437	-0.5732061
[827,]	-0.4387345	9.009658e-03	-0.317517144	0.14752053	-0.5732061
[828,]	-0.4387345	8.289956e-01	1.536818166	-1.34799799	-0.5732061
[829,]	0.4603560	2.899308e-01	0.954261498	-1.68033543	-0.5732061
[830,]	1.3594464	1.216970e+00	0.055811425	0.14752053	1.7428251
[831,]	-1.3378250	3.108100e-01	-0.389311100	0.64602670	-0.5732061
[832,]	-1.3378250	6.156474e-01	1.048619268	0.64602670	1.7428251
[833,]	1.3594464	-1.833681e+00	-1.371862664	0.31368925	-0.5732061
[834,]	-0.4387345	5.670556e-01	0.790161028	0.97836415	-0.5732061
[835,]	-0.4387345	-1.794200e+00	-1.298017452	-0.01864819	-0.5732061
[836,]	0.4603560	-1.665128e+00	-1.343145082	1.64303905	-0.5732061

[837,]	-0.4387345	1.232155e+00	2.847570670	0.14752053	-0.5732061
[838,]	1.3594464	-1.781293e+00	-1.416990293	-0.68332309	1.7428251
[839,]	-0.4387345	-5.666514e-02	0.388114877	-0.84949181	1.7428251
[840,]	0.4603560	-4.793381e-02	0.589137952	0.97836415	-0.5732061
[841,]	1.3594464	-1.801793e+00	-1.404682758	-1.18182926	-0.5732061
[842,]	-1.3378250	-1.515709e-01	-0.413926170	-1.01566054	-0.5732061
[843,]	-0.4387345	-1.794580e+00	-1.351350105	-0.84949181	-0.5732061
[844,]	0.4603560	7.961956e-02	-0.118545324	-0.51715437	1.7428251
[845,]	1.3594464	-4.958891e-01	0.105041566	1.47687032	-0.5732061
[846,]	-0.4387345	1.251743e-01	-0.247774445	1.64303905	1.7428251
[847,]	1.3594464	-6.175266e-03	-0.446746264	-0.01864819	-0.5732061
[848,]	1.3594464	5.966662e-01	0.035298866	0.81219543	-0.5732061
[849,]	0.4603560	1.442466e+00	1.134772015	-0.18481692	1.7428251
[850,]	1.3594464	-1.790404e+00	-1.410836526	-0.68332309	-0.5732061
[851,]	-1.3378250	1.596973e+00	0.242475709	1.47687032	-0.5732061
[852,]	0.4603560	-2.301529e-01	-0.567770361	0.31368925	1.7428251
[853,]	1.3594464	1.312483e-01	-0.083673975	-0.84949181	-0.5732061
[854,]	1.3594464	1.162684e+00	0.029145099	-1.51416671	-0.5732061
[855,]	0.4603560	1.912287e-01	-0.340080959	0.47985798	-0.5732061
[856,]	1.3594464	-1.310713e-01	-0.401618635	1.64303905	-0.5732061
[857,]	-0.4387345	5.063159e-01	-0.169826721	1.14453287	-0.5732061
[858,]	-0.4387345	4.258358e-01	0.662983164	-0.01864819	-0.5732061
[859,]	1.3594464	-3.933908e-01	0.215809383	-0.84949181	-0.5732061
[860,]	1.3594464	-1.485339e-01	0.297859618	-0.01864819	-0.5732061
[861,]	0.4603560	2.272929e-01	0.667085676	-1.01566054	-0.5732061
[862,]	0.4603560	1.121305e+00	0.162476730	0.14752053	-0.5732061
[863,]	-1.3378250	5.228669e-02	-0.137006627	0.64602670	-0.5732061
[864,]	0.4603560	8.100144e-01	-0.005726251	-1.51416671	-0.5732061
[865,]	-0.4387345	-2.062366e-01	-0.446746264	-0.84949181	-0.5732061
[866,]	1.3594464	5.822405e-01	1.270154903	-0.35098564	1.7428251
[867,]	-1.3378250	4.190026e-01	-0.071366439	1.47687032	-0.5732061
[868,]	1.3594464	2.443760e-01	0.905031357	0.47985798	-0.5732061
[869,]	0.4603560	5.328895e-01	-0.155467930	-1.01566054	1.7428251
[870,]	1.3594464	-4.575471e-01	-0.766742181	-0.84949181	1.7428251
[871,]	-1.3378250	8.555692e-01	1.565535749	0.97836415	-0.5732061
[872,]	-1.3378250	-1.847347e+00	-1.441605364	1.31070160	-0.5732061
[873,]	-1.3378250	-8.073381e-03	-0.327773424	-0.68332309	1.7428251
[874,]	0.4603560	-4.032610e-01	0.047606401	0.31368925	-0.5732061
[875,]	-1.3378250	2.515888e-01	-0.171877977	-1.68033543	-0.5732061
[876,]	0.4603560	-3.288549e-01	-0.621103014	-0.51715437	1.7428251
[877,]	0.4603560	-1.714479e+00	-1.369811408	-0.84949181	-0.5732061
[878,]	1.3594464	3.256153e-01	0.572727905	0.47985798	-0.5732061
[879,]	1.3594464	5.836066e-02	-0.411874915	1.64303905	1.7428251



[880,]	-0.4387345	2.162839e-01	0.474267623	-0.51715437	-0.5732061
[881,]	-0.4387345	5.480745e-01	-0.147262907	-0.84949181	1.7428251
[882,]	1.3594464	-6.120537e-01	-0.842638648	-1.18182926	1.7428251
[883,]	-1.3378250	1.246201e+00	1.668098542	0.97836415	-0.5732061
[884,]	1.3594464	-7.099965e-01	-1.527758110	-0.01864819	1.7428251
[885,]	0.4603560	3.210598e-01	0.568625394	-1.18182926	-0.5732061
[886,]	-1.3378250	1.018048e+00	1.196309691	-0.18481692	-0.5732061
[887,]	-1.3378250	3.370040e-01	-0.120596580	-0.51715437	-0.5732061
[888,]	-1.3378250	-1.763830e+00	-1.396477734	-0.51715437	-0.5732061
[889,]	0.4603560	2.937270e-01	0.958364010	0.97836415	-0.5732061
[890,]	-1.3378250	1.312483e-01	0.572727905	0.31368925	-0.5732061
[891,]	-1.3378250	-2.325831e-02	0.420934971	1.14453287	-0.5732061
[892,]	1.3594464	3.937951e-02	-0.422131194	0.14752053	-0.5732061
[893,]	-0.4387345	-1.906569e+00	-1.482630481	-0.68332309	-0.5732061
[894,]	-1.3378250	-1.666267e+00	-1.244684800	0.97836415	-0.5732061
[895,]	1.3594464	-1.779015e+00	-1.322632523	-0.84949181	-0.5732061
[896,]	1.3594464	8.873051e-02	0.736828375	-1.18182926	1.7428251
[897,]	1.3594464	-1.731183e+00	-1.392375223	0.47985798	-0.5732061
[898,]	-1.3378250	4.486132e-01	0.884518798	0.81219543	-0.5732061
[899,]	-0.4387345	2.405798e-01	-1.527758110	-1.18182926	-0.5732061
[900,]	1.3594464	-1.828366e+00	-1.431349084	-1.18182926	-0.5732061
[901,]	1.3594464	6.277953e-01	-0.104186533	-0.84949181	-0.5732061
[902,]	-1.3378250	-4.693155e-01	-0.696999481	-1.18182926	-0.5732061
[903,]	-0.4387345	2.709496e-01	-0.502130173	-1.34799799	-0.5732061
[904,]	1.3594464	5.488337e-01	0.773750981	-1.51416671	-0.5732061
[905,]	-0.4387345	8.665782e-01	0.197348080	1.47687032	-0.5732061
[906,]	0.4603560	4.341875e-01	-0.208800583	-0.51715437	1.7428251
[907,]	-1.3378250	4.379838e-01	-0.206749327	0.97836415	-0.5732061
[908,]	0.4603560	1.678592e+00	1.791173895	-0.01864819	-0.5732061
[909,]	-1.3378250	-1.797996e+00	-1.425195317	0.81219543	-0.5732061
[910,]	0.4603560	-8.413461e-01	-0.898022557	0.81219543	-0.5732061
[911,]	0.4603560	-7.358109e-01	-0.764690925	1.14453287	-0.5732061
[912,]	-0.4387345	4.770849e-01	1.454767931	-0.68332309	-0.5732061
[913,]	-0.4387345	-3.865576e-01	-0.731870831	0.14752053	1.7428251
[914,]	-0.4387345	1.325543e+00	0.109144078	0.97836415	-0.5732061
[915,]	0.4603560	7.568672e-01	1.458870443	-1.18182926	-0.5732061
[916,]	-1.3378250	6.957479e-01	-1.527758110	-1.34799799	1.7428251
[917,]	1.3594464	3.711701e-01	0.613753023	0.64602670	-0.5732061
[918,]	-0.4387345	6.365266e-01	1.069131827	-1.18182926	-0.5732061
[919,]	-1.3378250	8.787262e-01	1.307077509	-1.68033543	1.7428251
[920,]	-1.3378250	-3.280957e-01	0.121451613	-0.84949181	-0.5732061
[921,]	1.3594464	1.646551e-01	-0.461105056	0.97836415	-0.5732061
[922,]	1.3594464	-1.889865e+00	-1.412887781	-1.18182926	-0.5732061

[923,]	-1.3378250	8.703745e-01	1.298872485	0.31368925	-0.5732061
[924,]	-0.4387345	-7.665603e-01	-0.309312121	-0.35098564	-0.5732061
[925,]	1.3594464	-1.859875e+00	-1.439554108	0.81219543	-0.5732061
[926,]	1.3594464	1.467522e+00	0.178886777	-0.01864819	1.7428251
[927,]	1.3594464	8.286159e-01	-0.134955371	0.47985798	1.7428251
[928,]	1.3594464	-1.831403e+00	-1.441605364	-1.18182926	-0.5732061
[929,]	-1.3378250	8.113805e-02	0.523497764	0.47985798	1.7428251
[930,]	0.4603560	2.481722e-01	1.179899644	-1.51416671	1.7428251
[931,]	-0.4387345	9.100825e-02	-0.268287003	-0.84949181	-0.5732061
[932,]	-0.4387345	-5.552627e-02	-0.473412591	-1.51416671	-0.5732061
[933,]	1.3594464	-1.549875e-01	-0.415977426	0.47985798	-0.5732061
[934,]	1.3594464	-1.832321e-02	-0.333927191	0.81219543	-0.5732061
[935,]	1.3594464	8.160884e-01	1.245539832	-0.01864819	1.7428251
[936,]	-1.3378250	2.039835e-02	-0.432387473	-0.35098564	-0.5732061
[937,]	0.4603560	7.189049e-01	1.417845326	-1.68033543	-0.5732061
[938,]	-1.3378250	5.837590e-01	0.221963151	1.31070160	1.7428251
[939,]	-1.3378250	3.108100e-01	0.749135911	0.97836415	1.7428251
[940,]	-0.4387345	-1.794580e+00	-1.351350105	-0.51715437	-0.5732061
[941,]	-1.3378250	-2.278752e-01	0.219911895	-1.18182926	-0.5732061
[942,]	1.3594464	-1.843931e+00	-1.367760152	-1.18182926	-0.5732061
[943,]	-1.3378250	9.732523e-01	1.692713613	1.64303905	-0.5732061
[944,]	1.3594464	6.820814e-01	0.086580263	-0.01864819	-0.5732061
[945,]	0.4603560	5.761666e-01	1.573740772	-1.34799799	-0.5732061
[946,]	-1.3378250	4.076139e-01	-0.440592497	-1.34799799	1.7428251
[947,]	1.3594464	-3.531508e-01	-0.534950267	1.64303905	-0.5732061
[948,]	-0.4387345	3.028379e-01	1.245539832	0.97836415	-0.5732061
[949,]	1.3594464	5.807221e-01	0.802468563	0.81219543	-0.5732061
[950,]	-1.3378250	-1.810524e+00	-1.334940058	-0.68332309	-0.5732061
[951,]	1.3594464	1.836363e-01	-0.344183471	-0.84949181	-0.5732061
[952,]	0.4603560	1.391597e+00	1.532715655	1.47687032	-0.5732061
[953,]	-1.3378250	-1.831403e+00	-1.441605364	1.14453287	-0.5732061
[954,]	1.3594464	-2.916518e-01	-0.498027661	-0.18481692	-0.5732061
[955,]	-1.3378250	-2.946888e-01	0.322474689	1.31070160	-0.5732061
[956,]	1.3594464	1.150157e+00	1.573740772	-0.35098564	-0.5732061
[957,]	-0.4387345	1.262905e+00	1.684508589	-1.68033543	-0.5732061
[958,]	1.3594464	-1.845981e-01	0.441447529	-1.68033543	-0.5732061
[959,]	-1.3378250	-1.881513e+00	-1.404682758	0.47985798	-0.5732061
[960,]	0.4603560	1.646551e-01	0.818878610	-0.01864819	-0.5732061
[961,]	-1.3378250	-1.718655e+00	-1.244684800	1.14453287	-0.5732061
[962,]	0.4603560	1.033233e+00	0.999389127	1.31070160	-0.5732061
[963,]	-1.3378250	-1.824570e+00	-1.330837546	0.14752053	-0.5732061
[964,]	-0.4387345	-1.858736e+00	-1.447759131	0.47985798	1.7428251
[965,]	-1.3378250	1.425004e+00	0.326577200	-1.68033543	-0.5732061

```

[966,] -1.3378250  3.810403e-01 -0.237518165 -1.18182926 -0.5732061
[967,]  0.4603560  5.076820e-02 -0.415977426  1.47687032  1.7428251
[968,]  0.4603560 -4.034135e-02 -0.465207567 -0.35098564 -0.5732061
[969,]  1.3594464 -1.756238e+00 -1.404682758  1.14453287 -0.5732061
[970,] -1.3378250  8.077367e-01  1.237334809  0.31368925 -0.5732061
[971,] -0.4387345  5.670556e-01  1.253744856 -1.68033543 -0.5732061
[972,] -0.4387345  9.632297e-02 -0.391362356 -0.51715437  1.7428251
[973,]  1.3594464 -1.428396e-01  0.486575159 -1.51416671  1.7428251
[974,] -0.4387345  1.724147e+00  1.573740772  0.31368925  1.7428251
[975,]  0.4603560  5.196027e-01 -0.286748306  0.47985798 -0.5732061
[976,]  0.4603560  6.657576e-01  1.360410161 -0.51715437 -0.5732061
[977,] -0.4387345  1.584287e-02 -0.617000502  1.64303905  1.7428251
[978,]  1.3594464  1.204443e+00  1.627073425 -1.01566054 -0.5732061
[979,]  0.4603560  6.443463e-02  0.507087717 -0.18481692 -0.5732061
[980,]  0.4603560  1.112574e+00  0.004530028 -1.01566054 -0.5732061
[981,]  0.4603560  3.127081e-01 -0.274440771  0.47985798 -0.5732061
[982,]  1.3594464 -3.654511e-02 -0.463156311  0.97836415  1.7428251
[983,] -0.4387345 -1.876199e+00 -1.439554108 -0.51715437 -0.5732061
[984,] -0.4387345 -5.590589e-02 -0.356491006  1.31070160 -0.5732061
[985,]  0.4603560  9.125126e-01  0.049657657 -1.68033543 -0.5732061
[986,]  1.3594464  9.163089e-01  1.631175937  1.64303905  1.7428251
[987,]  1.3594464  2.830975e-01  0.375807341  1.14453287  1.7428251
[988,] -0.4387345  2.975232e-01  0.962466522 -1.34799799 -0.5732061
[989,]  0.4603560  1.584287e-02 -0.313414633  1.64303905 -0.5732061
[990,]  0.4603560 -7.050614e-01 -0.746229622  1.31070160 -0.5732061
[991,]  0.4603560 -6.135722e-01 -0.774947204  0.81219543 -0.5732061
[992,] -0.4387345  2.785421e-01 -0.292902074  1.14453287 -0.5732061
[993,]  0.4603560 -1.760793e+00 -1.416990293 -1.51416671 -0.5732061
[994,] -0.4387345  1.303524e+00  2.049632135  0.14752053 -0.5732061
[995,]  1.3594464  2.111362e+00  2.180912511  1.64303905 -0.5732061
[996,]  1.3594464  5.556669e-01  0.010683796 -1.51416671 -0.5732061
[997,] -0.4387345 -2.233197e-01 -0.457002544 -1.18182926 -0.5732061
[998,]  1.3594464 -1.814700e+00 -1.433400340  0.31368925 -0.5732061

```

```
attr(,"scaled:center")
```

months_as_customer	insured_age
2.039188e+02	3.894389e+01
policy_number	policy_bind_year
5.464948e+05	2.001588e+03
policy_bind_month	policy_bind_day
6.558116e+00	1.546593e+01
policy_deductable	incident_year
1.136774e+03	2.015000e+03
incident_month	incident_day

1.494990e+00	1.499399e+01
number_of_vehicles_involved	bodily_injuries
1.840681e+00	9.929860e-01
witnesses	vehicle_price
1.487976e+00	5.286267e+04
injury_claim	auto_year
7.447916e+03	2.005112e+03
fraud_reported	
2.474950e-01	
attr(,"scaled:scale")	
months_as_customer	insured_age
1.152149e+02	9.148001e+00
policy_number	policy_bind_year
2.568843e+05	7.357591e+00
policy_bind_month	policy_bind_day
3.503277e+00	8.804254e+00
policy_deductable	incident_year
6.121311e+02	0.000000e+00
incident_month	incident_day
5.237345e-01	8.669223e+00
number_of_vehicles_involved	bodily_injuries
1.019208e+00	8.203474e-01
witnesses	vehicle_price
1.112235e+00	2.634192e+04
injury_claim	auto_year
4.875062e+03	6.017980e+00
fraud_reported	
4.317731e-01	

```
# Verificarea standardizarii
apply(date_standardizate, 2, sd)
```

months_as_customer	insured_age
1	1
policy_number	policy_bind_year
1	1
policy_bind_month	policy_bind_day
1	1
policy_deductable	incident_year
1	NA
incident_month	incident_day
1	1

number_of_vehicles_involved	bodily_injuries
1	1
witnesses	vehicle_price
1	1
injury_claim	auto_year
1	1
fraud_reported	
1	

```
apply(date_standardizate, 2, mean)
```

months_as_customer	insured_age
1.263958e-16	-2.430429e-16
policy_number	policy_bind_year
-1.296452e-16	-2.843073e-15
policy_bind_month	policy_bind_day
-5.458991e-17	-3.760677e-17
policy_deductable	incident_year
-4.007890e-17	NaN
incident_month	incident_day
1.164210e-16	8.595572e-17
number_of_vehicles_involved	bodily_injuries
1.071929e-16	-4.213679e-17
witnesses	vehicle_price
-2.652384e-18	-7.463309e-17
injury_claim	auto_year
2.553622e-17	-1.816458e-14
fraud_reported	
1.671888e-17	

```
cor_dstd<-round(cor(date_standardizate),3)
```

```
View(cor_dstd)
```

```
cov_dstd<-round(cov(date_standardizate),3)
```

```
View(cov_dstd)
```

```
# Extragerea componentelor principale
```

```
# Eliminare coloana incident_year
```

```
date_standardizate1 = subset(date_standardizate, select != incident_year)
```

```
View(date_standardizate1)
```

```
comp_principale<-princomp(date_standardizate1, cor=TRUE)
```

```
comp_principale
```

Call:

```
princomp(x = date_standardizate1, cor = TRUE)
```

Standard deviations:

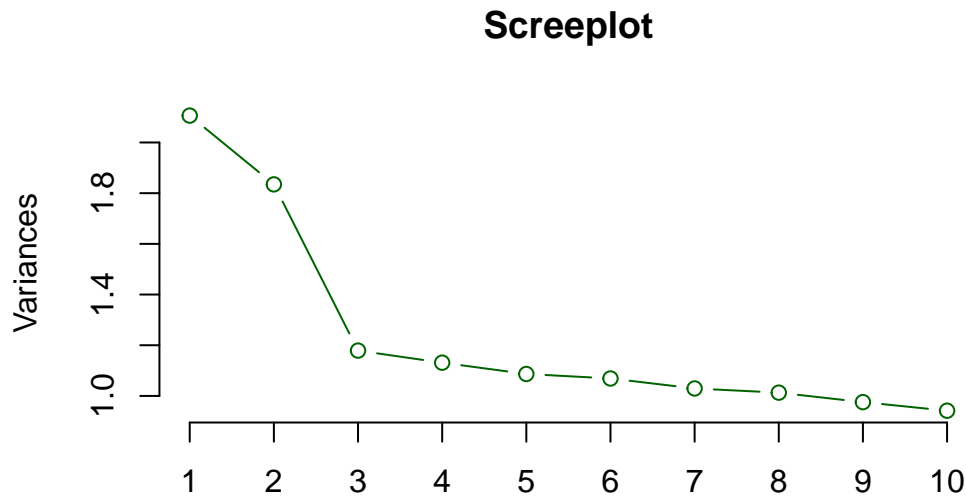
Comp.1	Comp.2	Comp.3	Comp.4	Comp.5	Comp.6	Comp.7	Comp.8
1.4512426	1.3545262	1.0857534	1.0635655	1.0424004	1.0338562	1.0146467	1.0064365
Comp.9	Comp.10	Comp.11	Comp.12	Comp.13	Comp.14	Comp.15	Comp.16
0.9877026	0.9704017	0.9516726	0.9288168	0.9060752	0.8819295	0.4350252	0.2785786

16 variables and 998 observations.

```
# Determinarea valorilor proprii
valproprii<-comp_principale$sdev*comp_principale$sdev
# Determinarea procentului informational retinut
procent_info<-valproprii*100/14
# Determinarea procentului cumulat
procent_cumulat<-cumsum(procent_info)
# Alcatuirea outputului final
output_final<-round(data.frame(comp_principale$sdev, valproprii, procent_info,
procent_cumulat), 4)
output_final
```

	comp_principale.sdev	valproprii	procent_info	procent_cumulat
Comp.1	1.4512	2.1061	15.0436	15.0436
Comp.2	1.3545	1.8347	13.1053	28.1489
Comp.3	1.0858	1.1789	8.4204	36.5693
Comp.4	1.0636	1.1312	8.0798	44.6491
Comp.5	1.0424	1.0866	7.7614	52.4105
Comp.6	1.0339	1.0689	7.6347	60.0453
Comp.7	1.0146	1.0295	7.3536	67.3989
Comp.8	1.0064	1.0129	7.2351	74.6340
Comp.9	0.9877	0.9756	6.9683	81.6022
Comp.10	0.9704	0.9417	6.7263	88.3285
Comp.11	0.9517	0.9057	6.4691	94.7977
Comp.12	0.9288	0.8627	6.1621	100.9598
Comp.13	0.9061	0.8210	5.8641	106.8239
Comp.14	0.8819	0.7778	5.5557	112.3796
Comp.15	0.4350	0.1892	1.3518	113.7314
Comp.16	0.2786	0.0776	0.5543	114.2857

```
# Scree plot
screeplot<-prcomp(date_standardizate1)
plot(screeplot,type="l",main = "Screeplot", col="darkgreen")
```



```
# Vectori proprii
vectori_proprii<-comp_principale$loadings
vectori_proprii[,1:8]
```

	Comp.1	Comp.2	Comp.3	Comp.4
months_as_customer	0.463026626	0.5166418638	0.06488112	0.02504128
insured_age	0.467391662	0.5115558782	0.06614199	0.03026564
policy_number	0.040120521	0.0989132545	-0.28965669	0.17538736
policy_bind_year	-0.028756781	-0.0690646408	0.10819891	-0.29001373
policy_bind_month	-0.006333211	0.0161464890	0.25917437	0.30248415
policy_bind_day	0.068866551	0.0523347374	-0.02714523	-0.07994958
policy_deductable	0.065402299	0.0003654204	-0.01643999	-0.36507520
incident_month	-0.048993014	-0.0489141060	0.66359911	0.09753509
incident_day	-0.027585130	0.0584110693	-0.58589851	-0.00602995
number_of_vehicles_involved	0.240246623	-0.2437757859	0.05369671	-0.08777903
bodily_injuries	0.032763079	-0.0806763703	0.06559605	0.02069472
witnesses	0.032650535	0.0803631161	0.15571145	-0.54318442

vehicle_price	0.489892640	-0.4323219703	-0.04905868	0.06982525
injury_claim	0.481397616	-0.4158307838	-0.05824611	0.08518462
auto_year	-0.009817018	0.0250417303	-0.07108077	-0.47097033
fraud_reported	0.144224094	-0.1232706181	0.04128273	-0.32518073
	Comp.5	Comp.6	Comp.7	Comp.8
months_as_customer	0.087504366	0.015064288	0.007579726	0.02514516
insured_age	0.079243512	0.025389130	0.022113951	0.02829507
policy_number	-0.264623022	0.081751526	0.009820524	0.33297891
policy_bind_year	0.247288138	0.640465632	0.184185553	0.07386640
policy_bind_month	-0.382054825	0.182189678	0.216450796	-0.49253927
policy_bind_day	-0.540129377	0.324754546	-0.462945073	0.04696475
policy_deductable	-0.185445140	-0.555470860	0.236705456	-0.06333936
incident_month	-0.132113451	0.121794929	0.122855022	0.24164714
incident_day	-0.012198187	0.319973503	0.279672240	-0.20995955
number_of_vehicles_involved	-0.087091650	0.011603738	0.245234854	0.36443591
bodily_injuries	0.552753266	0.073052130	-0.193892111	0.06174483
witnesses	-0.012860757	0.081723358	0.229265276	-0.40819004
vehicle_price	-0.017656097	0.023764494	0.036462890	-0.09075452
injury_claim	-0.019698024	0.016994086	0.074083785	-0.05494466
auto_year	-0.226242445	0.069226119	0.080156293	0.40248339
fraud_reported	-0.004058425	-0.005443388	-0.625607264	-0.23335339

```
# Scoruri principale
scoruri_principale<-comp_principale$scores[,1:8]
rownames(scoruri_principale)=date$insured_cod
round(scoruri_principale,3)
```

	Comp.1	Comp.2	Comp.3	Comp.4	Comp.5	Comp.6	Comp.7	Comp.8
466132	1.242	0.866	-0.615	-0.808	0.395	1.749	-0.567	-1.809
468176	-1.167	1.650	-0.917	-1.246	-0.989	-0.211	-1.626	-0.398
430632	-0.859	-0.756	0.398	-0.836	0.082	-0.537	1.980	-0.043
608117	0.683	0.378	-0.236	-2.000	-0.822	-1.784	-1.908	-0.763
610706	-1.674	1.749	0.829	-0.440	0.537	0.829	1.096	0.567
478456	0.776	-0.483	1.255	-0.902	-0.040	-0.234	-0.596	-1.343
441716	1.372	-2.457	-0.990	0.550	-0.159	-0.750	1.180	0.868
603195	-0.021	-0.653	-0.489	-0.633	1.042	-0.806	1.190	1.328
601734	-2.387	0.034	-2.186	-0.130	1.020	-0.066	0.287	0.490
600983	-0.458	0.698	0.237	1.109	1.075	1.250	-1.272	-0.163
462283	0.832	-0.057	-0.049	0.439	0.760	0.604	-1.247	-0.263
615561	4.587	0.189	0.954	-0.567	-0.633	-0.329	0.631	0.191
432220	-1.865	-0.924	-1.557	2.273	-0.865	0.571	-0.509	-0.620



464652	-1.412	0.158	-0.066	-0.190	-0.758	1.219	-0.467	0.114
476685	-0.301	0.556	-0.374	-0.730	-2.261	-0.552	-1.235	-1.986
458733	3.445	1.477	-1.682	0.893	-1.692	-0.942	-0.130	-0.294
619884	-1.336	-1.387	0.068	-0.741	-0.039	0.571	1.503	0.941
470610	0.087	-1.391	0.257	-0.245	-0.899	0.541	0.438	-0.868
472135	-0.260	-0.160	-1.216	0.643	-1.356	2.560	-0.244	0.618
477670	0.034	-0.550	0.408	0.061	0.623	-1.693	1.421	0.835
618845	1.598	2.740	0.838	-0.060	0.182	-0.223	-0.801	1.508
442479	-0.525	0.780	1.784	0.038	-1.029	-0.016	0.532	-0.517
443920	3.549	-0.025	-0.393	0.034	-1.011	-1.579	-1.532	-0.314
453148	2.725	0.920	-0.654	-1.762	1.682	-2.032	-1.044	-0.974
434733	0.244	0.246	-0.428	-0.152	0.926	-0.453	1.149	-0.012
613982	0.865	-2.637	0.239	-1.707	-0.238	-0.043	0.854	-1.390
436984	-0.982	2.464	-1.535	-0.437	-1.222	-0.970	0.601	-1.146
607730	-1.657	0.908	0.084	0.015	0.917	0.271	-2.549	-0.308
609837	0.364	0.208	-1.416	0.520	0.022	-2.611	-0.241	1.399
432211	1.523	-0.694	0.442	-1.259	1.622	0.091	1.423	0.706
473328	0.113	-2.462	-2.084	0.665	-1.016	-0.237	0.359	1.981
610393	0.620	-1.020	-0.143	-1.619	0.007	0.656	-0.103	0.037
614780	-1.210	-0.053	0.776	-0.784	1.313	0.369	1.876	-0.143
472248	0.481	-1.961	-0.803	-0.527	0.137	-1.415	0.823	1.001
603381	-0.096	-0.366	-0.452	1.762	-0.426	-0.767	-0.418	1.041
479224	-0.305	-1.295	-0.603	0.633	2.200	0.573	-1.144	-1.961
430141	-1.147	-1.498	-0.233	-0.789	1.280	-0.738	-1.678	-0.715
620757	-0.797	2.676	-1.519	0.350	0.882	-2.224	0.357	0.621
615901	2.713	1.010	-0.636	0.531	-0.334	0.038	0.451	0.192
474615	0.586	-0.051	-0.682	-0.942	-1.916	0.477	-1.876	-0.489
456446	-1.649	-1.046	0.275	-0.186	1.455	-0.903	-0.591	-0.181
470577	1.229	-2.235	0.209	0.228	-0.378	1.430	-2.500	-0.842
441648	-1.477	-1.722	-1.153	0.002	-0.564	1.147	-0.829	1.528
433782	-1.365	-0.578	0.549	0.346	0.907	0.562	-0.308	0.788
468104	0.511	0.323	1.533	-0.972	-0.566	-0.390	2.121	-1.027
459407	0.491	0.081	0.935	-0.378	0.415	1.282	0.835	-0.302
472573	-0.722	-0.480	-0.243	0.040	0.265	-0.715	0.285	2.125
433473	1.931	0.702	-0.889	-0.381	0.149	-1.979	-1.725	0.869
446326	-2.269	0.946	-0.717	1.274	2.053	0.483	-0.006	1.186
435481	0.677	-1.135	-0.501	1.493	0.242	-1.510	-0.508	0.373
477310	3.717	0.812	0.004	-0.798	0.528	-1.477	1.169	0.291
609930	-2.596	0.579	-0.817	-0.742	-0.991	-1.292	0.049	-0.629
603993	-2.002	1.429	0.534	0.800	1.984	-0.116	0.547	-0.113
437818	1.248	-0.613	-2.145	1.810	-0.488	0.511	-0.618	0.707
478423	-2.178	1.564	0.325	-0.481	-0.345	1.657	0.929	-0.009
467784	-0.353	-2.546	0.106	0.795	0.759	-0.073	0.240	-1.626

606714	1.251	2.445	0.774	-0.796	0.107	2.501	1.266	0.259
464691	-2.775	0.975	0.697	-0.940	-0.956	0.227	0.579	-0.687
431683	-0.644	-0.604	-0.819	-0.062	-1.355	-1.991	-0.216	0.107
431725	0.638	-1.200	-0.381	-0.466	-0.078	-0.872	-0.294	0.838
609216	1.226	-1.934	-0.985	-0.539	0.589	-0.823	-1.919	1.227
452787	0.522	0.591	1.539	0.390	-1.675	-0.110	0.177	-0.892
468767	-1.179	-0.371	-0.122	-1.666	0.240	0.734	1.027	-0.666
435489	1.444	-1.027	1.869	-0.210	-0.168	1.700	-1.587	-0.204
450149	1.101	-0.038	-0.752	-1.409	-0.477	-0.353	-0.971	0.041
458364	1.802	-1.379	1.012	1.253	0.485	0.400	-0.598	-1.955
476458	0.383	-1.960	-1.593	-0.537	-0.381	1.830	-0.627	-1.460
602433	1.456	3.236	2.198	1.731	0.115	-0.653	-0.615	0.598
478575	-0.195	-1.062	-0.706	0.121	0.264	-1.333	0.097	-1.106
449718	-0.877	2.900	-0.299	0.256	-0.357	-0.200	-0.229	0.464
463181	1.398	-0.579	1.002	-0.789	1.075	1.956	-0.517	-1.066
441992	0.310	0.015	1.858	-0.002	-0.618	-1.434	-0.444	-2.401
452597	-1.138	1.115	1.315	1.443	0.044	-0.654	0.800	-1.035
614417	0.401	-0.547	0.150	2.081	-0.820	1.809	-0.089	0.610
472895	-0.002	-0.741	2.950	0.640	0.381	-0.195	0.109	2.047
475847	-0.132	-1.514	-0.712	-0.063	2.216	-0.870	0.427	1.220
476978	2.105	-1.105	-0.427	0.094	1.891	0.150	0.457	0.240
600648	1.412	0.519	0.317	0.580	-0.501	-0.239	0.680	0.748
608335	-1.679	1.514	-1.083	-0.586	1.020	1.268	-0.200	-0.125
471600	1.108	-0.847	-0.435	-1.343	-0.380	2.351	-1.239	-1.473
441175	-0.221	-1.090	0.558	0.008	-0.972	-1.118	1.540	-0.322
603123	-1.452	1.696	0.193	0.094	1.141	-2.121	0.004	0.260
457767	-2.763	0.478	-1.793	-0.700	1.576	1.115	0.053	0.058
618498	-1.710	1.868	-1.179	-0.461	-1.798	-1.095	0.463	-0.915
605486	1.243	0.774	-0.651	-2.469	0.437	-0.944	-0.706	-0.569
617970	0.643	0.325	1.621	0.138	-2.289	-1.152	0.340	0.713
432934	0.358	-1.312	-2.199	0.059	1.535	0.519	1.209	1.037
456762	-0.320	-1.053	-1.074	0.214	1.583	-1.324	-0.478	1.325
601748	-2.599	0.954	-1.875	0.131	-1.081	-0.734	0.821	-0.819
607763	-1.570	-1.210	-1.253	-0.429	0.224	-1.338	-2.417	2.253
436973	-0.344	-1.354	0.101	1.558	-0.494	-0.705	1.659	-1.164
471300	-0.355	-2.492	1.704	-1.430	-0.450	-2.432	-0.458	-1.809
453277	-1.757	2.024	-0.457	0.388	-1.027	-0.653	1.869	0.058
465100	0.665	-0.081	1.272	0.379	-1.601	1.644	0.313	0.984
603248	2.273	-1.251	-1.350	1.381	0.404	-0.609	-0.291	0.686
601112	-3.007	-0.040	-0.516	0.323	1.535	-0.306	0.822	1.442
438830	1.247	0.982	-0.948	-1.477	0.587	-0.087	-0.500	-0.388
464959	-0.555	-2.613	-0.271	-2.476	0.244	0.132	1.384	-0.883
439787	-1.026	2.548	0.375	0.246	0.430	1.168	0.411	0.012

464839	-1.625	2.018	-1.069	0.636	-0.709	0.153	-0.027	-0.528
448984	1.378	-0.126	-1.906	2.226	-1.569	0.061	-0.042	-0.371
440327	-1.318	-1.489	0.372	1.433	0.497	-0.687	0.524	-0.416
460742	-0.676	1.345	-0.973	-1.184	1.471	0.776	1.212	0.103
446895	-2.360	1.192	0.132	-0.299	-0.364	0.848	-0.614	1.561
609374	3.035	0.042	0.454	0.875	-2.183	2.503	0.382	2.057
451672	-0.850	2.881	0.272	0.439	0.287	-0.864	-0.664	-0.064
604450	3.129	1.788	-0.025	0.526	-0.380	-1.169	-0.306	-1.256
432896	-0.501	-1.592	3.042	1.906	-1.928	-1.430	-0.385	-0.133
618929	1.433	-0.009	2.056	0.653	-0.586	-1.727	-0.893	-1.355
451312	-0.290	-0.985	-1.607	-1.810	-1.485	1.555	-0.471	-0.517
605141	0.491	0.388	-0.997	-0.578	1.159	0.741	-0.006	0.960
459504	2.963	1.290	0.001	-0.646	0.395	0.062	-2.029	0.481
432781	1.322	-1.442	-1.094	1.641	1.873	1.617	1.553	-0.591
452748	0.095	-1.349	1.996	1.069	-0.137	-0.550	0.746	2.126
618316	-0.330	2.990	0.829	0.156	-0.630	-0.155	-0.016	-0.850
455365	0.687	0.603	-1.425	0.062	0.398	-0.476	-0.632	-0.209
470603	-0.933	-0.606	-0.201	-0.930	-0.353	-1.684	1.038	-1.175
475292	1.024	-0.503	-0.443	-1.512	0.648	-1.659	-0.088	-0.788
467743	1.502	-1.196	-0.588	-1.410	-1.805	-0.263	0.360	-1.427
460675	1.157	-0.751	-0.130	0.293	-0.956	0.888	0.525	1.397
618123	0.876	-0.674	-0.075	0.175	2.216	-0.071	0.679	0.601
607452	0.834	-1.170	-0.825	-0.551	0.926	1.712	-1.786	-1.093
606352	-0.807	0.602	-1.627	-0.213	0.447	0.307	-1.824	-1.368
603527	-0.306	-2.692	-0.710	0.569	0.286	-1.131	0.417	1.434
445601	-0.720	0.312	1.082	0.891	-0.874	0.067	-0.696	1.015
603948	-0.406	0.557	0.534	-1.456	-0.562	2.258	0.609	1.568
435758	-0.843	0.400	-0.181	1.336	-0.848	-2.281	0.376	-1.019
611586	-2.638	0.574	1.403	1.326	2.322	0.653	-0.207	0.635
465263	1.120	0.151	1.302	-1.738	-0.632	-1.176	-0.477	-0.800
617858	-0.908	-1.354	0.006	-0.881	0.115	0.872	-0.758	-1.057
607889	2.078	-0.538	-0.989	0.326	0.470	1.211	1.177	-0.329
455689	0.177	-0.239	0.183	-0.362	-0.354	1.986	0.228	1.114
450341	-0.913	-1.225	0.048	0.295	-1.669	1.487	1.122	0.905
431277	-1.585	-0.485	-1.972	0.405	0.952	-0.315	-0.844	0.319
454656	0.487	-1.976	0.910	0.083	-1.401	-0.006	0.007	-0.262
605169	0.871	-0.981	-1.760	-0.460	-0.084	-1.228	-1.372	-0.920
444822	-1.881	1.741	-0.382	-0.227	-0.367	-0.055	-0.213	2.123
447442	-0.618	-1.297	-0.183	-1.778	0.490	-0.201	1.192	0.659
474360	2.022	-0.321	1.567	0.935	0.661	1.144	0.903	1.008
447925	0.283	-1.507	-0.194	1.432	-0.537	-0.828	1.414	-0.250
451586	-0.227	0.112	-1.800	-0.349	-0.294	-1.508	0.849	0.238
477519	-1.113	2.212	-0.583	-1.553	0.620	-0.159	-0.514	-0.588

603639	-2.523	0.481	0.278	-0.546	1.823	0.431	1.034	0.274
463993	-0.825	-1.714	0.807	-2.011	0.307	-1.505	-0.563	-0.974
441491	-0.958	-0.833	1.643	-2.139	-0.521	-1.925	0.988	0.894
469429	2.646	0.888	2.110	1.148	0.692	0.438	-1.889	-0.787
472214	1.437	-1.218	1.635	1.710	-0.061	0.877	-2.122	0.477
614945	-0.863	0.488	-0.453	0.079	0.451	1.208	0.736	-0.390
476727	-0.544	-1.744	1.093	-1.082	-0.004	0.238	-1.316	-1.956
438555	2.024	-2.001	0.966	0.653	-0.093	-0.166	-1.819	-0.162
440961	-0.462	-1.160	-0.389	0.126	0.594	-0.654	-0.097	0.359
616714	0.909	0.191	0.166	0.675	0.645	0.706	1.588	0.531
434247	0.303	-1.419	-0.391	-0.681	-0.458	-0.001	-1.048	-0.239
436547	2.491	1.212	0.829	0.820	0.995	-0.669	0.636	-1.382
619540	-0.045	-1.335	0.221	-2.372	-0.732	1.922	-0.204	0.207
466283	0.268	1.948	1.783	-1.336	2.216	0.413	-1.765	-1.111
449557	2.861	1.852	0.433	-0.094	-0.239	0.405	0.407	1.473
473329	0.233	3.641	2.207	-0.686	-0.013	0.993	-0.813	0.121
470117	0.434	-2.135	0.222	0.260	0.413	0.574	0.432	2.094
600702	-2.495	0.468	0.806	1.225	0.413	1.327	-1.756	1.688
615921	-1.890	1.719	-0.717	-0.671	0.220	-0.233	0.645	-1.146
475588	1.489	0.101	-0.378	1.005	0.800	-0.928	-0.625	-1.084
609409	2.113	0.054	-2.132	0.915	0.678	-0.189	-0.431	0.328
479852	0.547	-2.353	-0.874	1.114	1.131	0.132	-1.539	-1.875
452249	1.546	-2.607	-0.876	1.377	0.362	0.387	0.243	1.625
441536	-0.390	-1.890	0.891	-0.324	0.651	0.974	2.022	-0.346
601617	-0.304	-2.454	0.613	-1.304	-0.390	-0.375	-1.364	-0.321
442598	1.372	-0.090	-0.342	2.090	-0.076	-0.799	1.496	0.212
430987	-1.343	2.312	0.381	-0.878	-0.639	1.346	-0.520	1.109
430104	-2.372	0.778	-0.896	-0.638	-0.183	-0.881	-0.432	2.001
612904	0.819	0.028	-2.506	1.242	-1.230	0.963	0.232	1.241
430886	-0.993	-0.995	0.364	-1.186	-1.501	0.872	-0.187	-1.466
467947	-1.136	-1.139	-0.646	0.471	-0.026	-1.038	-1.422	0.982
604804	-0.962	-1.693	-0.329	-0.925	-0.338	0.702	1.228	1.369
460308	-1.257	2.331	1.413	1.230	-0.820	-1.308	-0.338	0.081
618862	1.879	-0.066	-1.660	-0.301	0.977	-0.405	1.021	0.838
462479	0.019	-0.459	-0.684	2.219	-1.163	-0.289	-1.358	-0.475
457555	0.775	0.304	-0.194	0.357	0.123	-0.017	0.015	-0.633
459984	0.892	-0.719	1.667	1.679	-0.030	0.102	0.112	-1.063
434982	-1.845	1.667	-1.508	-0.523	2.299	1.087	-0.018	1.253
614233	-0.390	-1.664	0.861	0.238	0.389	-0.543	0.977	0.345
605258	3.499	0.581	0.233	0.264	0.237	-0.714	0.146	-2.287
604377	0.279	-2.305	-1.116	-0.963	2.261	0.720	0.584	-0.135
434923	0.111	-2.394	-0.433	0.076	-0.199	0.056	-1.363	-1.213
476456	0.477	1.616	-0.973	-0.491	-1.222	-0.850	-0.740	1.241

446788	0.134	-1.226	0.225	-0.549	0.976	0.473	-0.626	-1.462
477382	-1.337	0.141	0.643	-1.824	0.216	0.211	0.465	1.787
600275	-1.765	1.666	1.173	-1.419	0.119	-0.009	2.077	-1.557
461958	0.142	-2.907	-0.232	-0.184	0.275	1.888	-1.372	1.134
472720	0.725	-2.397	0.660	0.374	-1.214	0.974	1.203	-1.132
442395	0.098	3.625	1.260	-0.602	-0.320	-1.351	0.170	0.780
455340	-0.377	0.650	0.279	0.218	1.086	0.051	0.518	0.758
613247	0.868	2.025	-0.438	-0.827	-2.043	-1.224	0.658	-0.666
454985	-2.866	0.273	-0.675	-0.864	1.048	-0.837	-0.048	2.126
468813	-1.502	-1.066	0.066	-0.019	-0.613	-1.297	1.500	1.526
452747	0.413	0.268	2.293	-0.978	2.006	0.726	1.116	-0.137
615611	-1.550	1.263	-1.664	-1.033	0.437	-1.483	-1.630	-0.307
451400	-1.466	2.355	-0.824	-0.488	-0.582	0.496	-0.220	0.371
464874	0.587	1.305	-0.323	0.604	0.686	1.097	0.335	-0.106
452496	-1.352	2.161	0.365	0.803	0.582	-2.018	0.451	-1.748
430714	-2.993	-0.166	1.871	-1.194	1.569	-0.855	0.658	0.837
472634	1.038	0.837	-0.495	1.507	1.679	0.457	0.181	0.701
608371	-1.591	1.964	-1.130	-2.086	-1.278	-0.071	0.257	0.686
468168	2.626	2.395	0.924	-0.439	-1.396	1.269	0.356	0.762
464107	-0.495	1.057	-1.865	0.388	0.403	-1.234	1.691	-0.445
466959	-0.310	0.464	0.828	0.228	1.376	0.993	0.023	1.330
443522	-0.703	-0.874	-0.278	0.366	0.184	-0.789	-0.505	-0.844
441726	-0.377	-1.050	-0.016	0.338	-1.773	0.644	1.071	-0.482
473412	1.591	0.337	0.995	-0.037	1.707	0.844	1.492	-0.449
466201	-0.278	3.204	0.027	1.040	0.133	1.489	0.696	-0.526
469621	-3.090	-0.218	0.726	-0.686	0.779	-2.409	-0.545	2.219
466676	-1.784	1.244	0.825	-0.527	1.195	-1.406	0.649	-1.255
615346	1.055	1.226	-1.027	-1.430	1.955	0.566	1.212	0.686
440106	0.088	-1.463	-1.986	-0.469	0.112	-0.984	-0.362	0.404
450332	0.178	-0.751	-1.490	-2.227	-0.233	-1.277	-1.034	-0.930
615226	1.598	-0.378	1.411	-0.516	-0.963	-0.203	-1.509	0.151
437688	-1.233	-1.086	-0.500	-1.404	0.265	-0.563	-0.594	0.361
437387	-2.772	0.241	0.046	0.619	-0.484	-0.184	-1.513	1.588
458139	1.712	0.111	0.830	-0.107	1.209	0.658	-1.428	-2.070
443191	1.077	0.038	-0.429	1.641	0.168	-1.104	-0.340	0.574
613647	1.066	0.187	-0.210	-0.990	-0.627	-0.371	-0.113	-0.288
460820	-0.396	1.978	1.002	-0.128	0.176	2.117	0.195	-0.136
431121	0.830	1.246	1.866	2.232	-1.243	0.288	-0.607	-0.729
619735	1.178	0.741	0.379	0.655	2.928	-0.493	0.318	0.339
470485	1.563	-0.448	-1.414	-0.831	-1.824	-1.564	1.064	0.147
620473	0.408	0.267	-1.116	-0.208	-0.612	0.779	0.692	-1.553
449800	1.824	0.899	0.077	1.520	0.106	0.344	0.580	0.880
602402	1.705	1.083	0.197	-0.919	-0.299	0.254	-1.360	0.195

452456	1.497	1.543	0.662	-0.114	-0.096	0.313	1.788	0.885
439269	0.699	-1.053	-0.252	-1.069	0.088	0.591	-0.396	-0.858
617774	-1.166	-0.152	1.582	-0.070	0.216	0.690	1.489	-0.651
477678	-0.421	1.659	0.864	-0.498	1.870	0.403	1.009	0.086
444913	0.943	-0.369	0.591	1.302	-0.450	0.272	0.060	0.943
456602	1.219	-1.843	-0.296	0.924	0.263	-0.641	0.256	-0.041
451560	-0.748	-1.461	0.971	-1.839	-3.092	-1.042	-1.039	0.809
453407	2.794	0.668	-1.419	-0.270	1.233	-1.044	1.370	1.356
618655	-1.572	-0.428	0.258	0.038	0.703	0.909	-0.515	-0.897
612550	0.907	-2.725	-0.084	-1.518	0.726	-1.456	-1.338	-1.392
466718	0.287	0.356	0.445	-0.067	0.240	-2.024	0.750	0.146
617947	-1.261	0.517	0.677	1.853	-0.116	-1.128	0.033	0.208
606238	-0.337	0.852	-1.376	0.032	0.160	0.997	1.477	0.235
463842	0.265	-1.052	1.165	-0.545	2.047	-1.008	-1.399	0.944
610354	-1.649	1.261	1.465	-0.714	0.841	-0.653	-1.191	1.204
461328	0.594	-1.140	1.446	-0.782	-0.387	-0.315	1.199	0.812
458727	-2.911	0.517	0.833	-0.276	0.047	-1.833	0.179	-0.691
452587	1.754	1.309	-0.334	-1.529	-0.702	0.764	-0.300	-1.689
433184	-1.648	-1.126	-0.826	-0.677	-0.739	-0.177	-0.135	-0.825
451280	2.504	-1.473	2.223	0.094	-1.387	0.614	-0.953	-0.335
603269	-2.817	0.441	0.299	-1.815	0.543	-0.558	0.103	0.118
442632	-1.164	-1.000	0.575	-1.090	1.358	-1.267	1.533	-1.145
447300	-0.944	-1.202	1.167	-0.752	-0.700	0.319	-1.804	0.652
441783	-0.053	-1.894	-0.026	-0.774	-1.112	1.628	-0.550	-0.253
468702	-1.737	1.701	-1.169	0.612	1.903	-0.162	-0.277	-0.652
467942	1.895	2.406	-0.252	-0.248	2.090	-0.222	-0.535	-2.507
463678	-0.945	-2.197	-0.933	-0.387	1.145	-0.751	-0.667	0.036
615220	2.508	1.874	-0.190	2.304	-0.885	0.374	0.391	-0.643
432711	0.164	-0.524	-0.392	1.574	-0.431	0.859	0.246	1.541
463583	0.658	0.657	-0.775	-1.545	-0.905	-1.403	-1.592	-0.770
439502	-1.658	1.849	1.742	-1.118	0.036	0.756	-0.075	0.926
613287	-0.244	-0.806	-0.047	-0.761	-1.805	-0.248	-1.074	-0.895
620104	-2.785	0.775	1.712	0.228	-1.988	-0.944	-0.442	0.253
446895	-0.480	-0.847	1.048	-0.490	-0.738	-1.116	-1.859	0.279
431531	1.080	-0.156	-1.262	-0.702	-0.801	0.527	-0.939	0.849
605408	0.453	-0.110	0.185	0.095	0.339	-1.557	0.773	-0.408
457551	-1.249	-0.457	-2.583	0.066	-0.741	-0.208	0.547	0.589
619892	-0.061	3.451	-1.267	1.173	0.552	0.736	-1.433	0.250
445853	1.461	-0.203	-2.006	-0.818	1.568	-0.108	-0.242	0.372
475483	0.292	-2.539	-0.692	0.051	-2.268	0.865	1.319	1.253
606290	-0.544	-0.050	0.712	-0.834	-0.478	1.097	-0.148	-0.317
611852	0.868	-0.988	0.146	-0.387	-0.202	-0.110	2.373	-0.324
444734	3.290	-0.118	-1.549	0.086	1.388	0.499	1.064	0.799

433683	-1.733	2.198	0.120	1.390	-1.440	-0.292	0.834	0.730
448882	2.460	-0.148	-1.968	0.404	-0.113	-1.270	0.580	0.329
466838	-0.349	-1.949	-1.310	0.844	0.331	1.607	0.098	1.114
605490	0.983	-0.455	-0.618	-0.005	-0.489	-2.232	0.559	-0.160
466137	-0.310	0.730	-1.547	-0.300	1.114	0.490	1.287	0.866
466970	0.951	0.235	0.345	-1.411	-0.295	-0.496	1.131	1.505
474801	0.732	-0.293	1.352	1.093	-0.021	0.525	-1.707	-0.448
450703	0.091	-1.001	-1.752	-1.714	-1.717	-1.675	-1.491	0.689
478172	0.313	-2.373	1.281	0.863	1.934	0.677	0.105	0.914
604668	0.380	0.375	-0.708	-0.916	-0.652	0.167	0.953	-0.618
469429	-1.719	0.922	-1.006	-1.796	0.447	1.008	-2.579	1.192
471806	-1.584	1.855	0.172	1.422	-2.809	-0.940	-0.129	-0.011
475705	2.868	1.946	-0.722	-0.595	-1.171	-0.561	-1.760	-0.662
459122	1.288	-1.134	0.183	-1.477	-1.463	0.402	0.839	1.304
476737	-0.305	-1.086	-0.270	1.337	-0.866	0.028	0.641	0.431
460359	-0.448	-1.379	0.151	0.886	2.519	-1.148	0.150	0.431
452735	-1.680	1.888	-1.547	1.829	-0.527	1.850	-0.715	-0.477
613583	-0.909	-1.592	1.140	-1.369	-1.093	1.171	-1.267	-0.844
605692	-2.313	0.827	1.283	-1.170	-1.334	-0.129	-0.845	1.303
438178	0.906	0.173	-1.842	1.836	0.780	-0.280	0.687	-1.237
449221	-0.450	-0.624	1.542	-1.391	-2.040	0.377	0.894	0.656
459322	-0.078	-1.784	-2.488	-1.813	-1.043	-0.112	-1.310	1.470
472657	0.911	-1.842	-1.563	0.360	2.456	0.452	0.853	-0.405
608331	0.219	-0.816	-0.756	-1.258	0.667	-0.684	-0.934	0.634
438546	-0.380	-1.230	0.239	0.493	0.211	0.900	1.054	0.044
441981	1.134	-0.454	1.587	-1.005	0.064	-0.499	0.620	1.451
602177	-1.825	1.894	0.874	0.736	0.728	0.355	0.789	-1.534
441659	-2.303	1.003	-0.008	0.477	1.349	1.467	-0.017	0.735
614812	-0.874	-1.400	0.948	0.760	-0.210	-1.848	0.761	0.725
458470	-1.516	1.717	2.438	-0.867	1.437	0.498	0.595	-0.269
469646	1.089	-1.992	-1.578	0.437	-1.794	-0.446	1.019	-1.220
611118	1.424	-1.936	-1.441	-1.438	0.012	-1.737	1.947	0.306
465158	-1.629	1.986	-0.475	0.666	0.517	1.140	0.898	-1.703
457130	1.669	0.015	-0.692	1.949	-0.999	0.829	0.392	-0.040
607893	-0.901	0.242	-0.379	-0.035	-0.497	0.943	-2.502	0.501
464736	-1.117	-1.023	-0.173	-0.473	1.440	0.706	-2.607	-0.668
476198	0.122	-0.769	0.875	0.213	-0.407	1.946	-0.598	-0.245
444903	1.024	-1.475	-0.512	1.575	-0.188	-0.899	0.515	-0.926
464336	-0.513	-0.388	0.134	-1.043	1.212	-0.449	1.846	-0.256
471453	1.432	-0.940	0.785	-2.912	1.445	-0.577	-0.610	0.509
466191	-1.771	-1.266	0.781	-1.989	-0.742	-0.371	0.384	-0.568
440930	-1.599	0.101	0.576	-0.383	-0.246	-0.714	1.152	-0.268
430380	3.067	0.993	0.495	-1.104	0.919	1.152	0.530	0.282

613178	0.551	-2.476	-0.458	-0.365	0.340	-0.320	0.278	1.194
460564	0.611	0.392	-1.729	1.569	1.202	-0.801	-0.275	-0.189
439929	2.266	-0.740	-0.503	-0.926	1.281	-0.961	1.208	0.185
605756	0.855	0.456	-0.276	1.178	-0.074	-1.893	1.323	-1.228
451184	-1.523	-1.093	-0.660	1.066	-0.292	0.024	-0.181	0.029
459588	0.093	-1.348	-2.199	0.361	-2.386	0.455	-1.431	-1.576
616637	0.878	-0.470	0.869	0.895	-1.427	-2.059	1.462	-0.607
447979	-0.336	-0.846	0.968	-1.150	-1.523	-1.055	1.713	1.023
460176	-0.596	1.552	0.707	0.340	0.079	-0.161	0.213	-0.393
459429	1.073	1.034	0.279	-0.481	0.224	0.968	2.266	0.742
465456	-0.671	-1.891	1.799	0.435	0.759	-1.215	-0.815	-1.680
464665	3.612	0.223	0.301	0.326	-0.797	-1.582	0.772	2.082
430853	1.924	0.395	0.389	-0.274	-1.674	0.527	1.480	0.551
615712	1.026	0.726	-1.150	0.578	-1.439	-0.744	0.065	1.825
608228	0.827	-0.504	2.111	-0.644	-0.194	1.056	-0.855	0.051
457535	-1.042	-1.081	0.794	-0.531	-0.215	-0.533	-2.846	1.238
442540	-0.892	-0.512	-0.510	-0.125	-0.146	-0.264	-0.475	0.316
455332	1.939	0.079	0.272	-1.807	-1.141	-0.512	-1.159	-1.054
439534	-3.244	-0.086	1.423	0.012	1.775	0.835	0.674	-0.692
462420	-2.931	0.411	1.246	1.575	0.912	-1.520	-0.067	-0.223
448913	-2.072	-0.068	-0.031	1.386	-1.340	1.130	-0.280	-0.138
440837	-0.913	-0.888	1.030	0.459	0.087	-0.318	0.006	0.863
466634	-0.335	-0.091	1.379	0.809	-0.327	1.665	0.097	1.578
446435	-0.096	-0.650	0.228	1.373	0.519	-0.292	-1.552	-0.796
438237	-0.402	-1.432	1.017	1.472	0.101	0.347	-0.383	-0.023
468313	0.039	0.258	-1.170	-0.454	-0.945	-1.295	0.025	-0.637
476303	1.738	-0.753	2.669	-0.846	1.380	-0.369	-0.659	2.100
450339	1.159	0.114	0.540	-0.734	0.022	0.451	1.202	-1.473
476502	-1.805	-0.987	1.974	-0.472	0.021	-0.376	-1.577	-0.872
600561	-0.921	2.910	-1.112	-1.327	-0.284	1.171	0.226	-0.913
600754	1.178	-1.220	0.205	-2.066	1.968	0.644	-0.405	-0.972
439304	-0.446	-1.239	-0.339	0.392	-2.082	-1.063	0.706	-1.047
460722	1.170	2.582	-1.307	2.109	0.599	0.414	0.284	-0.610
618632	0.875	0.301	-0.886	-0.767	0.920	-1.144	-0.197	0.011
452204	-0.038	-2.119	1.319	1.006	-1.777	0.012	-0.543	1.088
454530	1.344	-0.770	1.163	-0.407	-1.125	0.858	-1.261	-2.280
474848	0.764	0.097	-1.182	-1.258	1.052	1.435	1.726	-1.195
435985	0.680	0.147	1.350	-0.335	0.061	-1.377	-0.422	1.304
457942	-1.779	-0.929	1.822	-0.673	-0.586	0.933	-0.107	-0.301
436522	2.135	2.648	-2.367	0.954	-0.069	0.457	0.100	-0.160
471704	-0.741	-1.718	0.433	1.254	-0.499	-1.927	0.797	1.214
455810	0.548	0.088	1.209	2.433	-0.516	1.488	0.437	0.005
446544	0.854	-0.868	-1.418	0.735	1.120	-1.519	1.754	-1.018



461919	-0.242	-1.745	0.026	-1.007	-0.365	0.606	1.091	0.353
470128	1.675	-1.791	-0.637	-0.541	-1.382	1.188	-1.196	-2.611
462836	0.240	0.809	-0.465	0.934	0.188	0.804	-0.920	0.589
475407	4.075	0.491	1.668	0.217	0.636	-1.215	-1.190	0.113
473611	-0.457	-2.546	-0.646	-0.886	1.482	-0.653	-1.570	0.604
608425	-2.700	1.004	0.416	0.480	-0.833	0.931	0.949	-1.542
476227	0.020	0.920	0.441	-1.430	-1.192	1.650	-1.126	-0.014
452701	-0.722	2.224	-1.289	-1.108	1.365	0.701	-1.327	-0.241
456789	-2.322	0.726	-0.468	-1.259	-0.554	0.726	-1.506	0.996
600904	-2.144	1.212	1.175	0.242	-1.061	-0.506	-0.073	1.603
450889	0.549	1.355	-1.887	1.136	-0.719	-0.112	-0.387	-0.822
478837	-2.351	-1.961	2.024	-1.711	0.039	0.293	-0.434	-0.609
611322	2.197	-0.805	0.534	0.739	0.631	1.220	1.967	0.713
438180	2.316	1.347	-1.117	1.990	1.008	-0.224	0.806	-1.046
449793	-0.134	1.192	-2.333	-1.396	0.115	1.434	0.789	1.416
450730	-0.011	-1.545	-0.196	-1.806	0.949	-0.902	1.289	-1.209
608758	-2.203	0.473	0.800	-1.135	0.798	-1.807	-0.393	-0.894
445339	2.056	1.290	0.911	-0.685	-1.371	-1.263	-0.073	3.029
438328	-0.026	0.899	1.356	0.919	0.847	-1.463	0.319	1.391
479913	-1.251	-0.949	-1.409	1.260	-0.112	-0.432	0.001	0.553
460760	-1.684	-1.307	0.166	-0.980	-0.565	1.047	1.814	-1.018
444797	0.110	0.173	1.118	1.941	-0.516	-0.644	0.061	1.060
436711	0.370	-1.358	0.806	-2.305	-0.889	-0.298	-0.686	-0.348
432491	0.388	0.927	-0.288	-1.686	-1.829	-0.495	0.498	0.189
617527	-0.491	-1.108	0.549	-0.631	-1.215	1.216	-0.468	-1.453
601213	-0.501	-1.135	-0.715	-1.841	0.235	-1.497	-0.059	0.932
604138	0.836	1.049	-0.636	-0.047	-1.521	0.386	-1.253	-0.680
431361	2.143	-1.222	0.513	-0.964	-0.046	0.367	0.730	-0.700
477695	-0.884	-0.901	0.913	1.409	-1.299	0.464	-0.642	2.114
612597	0.890	-0.328	-0.595	1.062	-1.997	-0.051	0.955	0.273
445638	-1.905	-1.792	1.316	0.831	-0.757	-0.784	0.054	-1.425
476185	0.581	-0.856	0.696	1.015	-1.023	-1.488	1.680	-0.417
435995	-0.824	-0.382	0.505	-0.502	-0.769	0.705	-0.558	-0.682
430232	-1.030	-0.416	-2.244	0.092	-0.460	1.537	0.674	-0.288
443861	0.790	1.070	-1.687	-0.090	-1.039	1.241	0.640	1.618
460801	-0.373	-0.415	-1.357	0.168	1.290	1.020	0.746	1.012
605121	2.664	1.270	0.626	-0.356	0.216	-1.341	1.654	0.394
458622	-0.390	-1.293	1.408	-0.648	0.954	-0.740	-0.364	0.041
478661	-2.369	0.823	-0.619	-0.361	-0.106	-1.203	-0.230	0.441
435299	1.850	2.028	-0.246	0.747	-0.772	-0.322	-1.305	0.823
601961	1.335	-0.019	0.838	0.979	-0.513	0.171	1.223	-0.143
604328	-3.542	0.190	0.257	0.378	-0.844	-0.548	0.541	0.556
614385	0.058	-1.305	-2.043	1.135	0.115	-0.704	-0.977	0.366

438584	1.992	1.460	0.624	-1.029	-1.164	-0.973	0.647	1.066
478703	0.576	0.575	0.823	1.398	-0.910	-0.368	-0.634	0.234
615683	0.053	-1.022	-0.386	-0.238	-0.408	0.399	-0.706	1.004
455672	1.690	1.280	1.012	-0.049	-1.700	-1.597	-0.456	0.435
602942	2.760	1.920	0.217	-1.516	-0.051	0.137	-1.350	0.699
616706	0.381	-2.723	1.246	0.370	1.220	1.303	1.362	-0.791
473243	0.900	0.446	0.141	0.272	-2.039	-0.435	2.037	-1.316
435552	-0.323	1.534	-0.956	1.025	-1.261	0.289	-0.207	1.015
434206	0.162	0.884	0.701	-0.199	-0.657	-1.785	0.099	-2.137
469895	-1.116	2.646	-0.613	1.024	-0.129	1.113	-0.817	-1.182
457722	-1.083	2.490	-0.624	-1.094	-0.834	-1.244	0.847	-0.849
473645	-2.897	0.211	0.436	0.737	1.210	-0.227	-0.400	1.395
619108	1.464	-0.332	0.151	-0.292	0.620	-1.962	1.064	1.768
610479	-0.091	-2.218	0.486	0.341	-0.411	1.171	0.252	-0.547
474998	-1.576	1.674	0.314	0.541	0.116	-0.796	-1.037	-0.407
616341	-0.949	-0.543	0.131	-0.619	0.541	-0.877	1.137	-1.885
460535	1.008	1.199	-0.057	1.339	-0.325	0.728	1.682	-0.371
606487	0.023	-0.299	-1.458	-1.838	0.585	0.120	0.654	-0.542
620737	-1.135	2.401	1.471	-0.048	-0.699	0.673	-0.850	0.813
445904	0.528	-1.933	-0.622	1.046	1.146	0.388	-0.650	0.825
464145	0.193	0.074	-0.612	0.130	1.262	1.582	-0.259	-1.077
466818	0.447	-1.168	-0.705	2.714	0.691	-1.385	0.315	-1.351
464237	-0.926	-3.094	1.149	0.832	-0.546	0.970	0.629	0.339
618455	0.569	1.329	-1.344	1.275	0.037	-1.412	-0.409	1.044
456602	0.254	-0.950	0.394	-0.587	-1.930	-0.563	-1.637	-1.146
616126	-0.299	-2.151	0.724	0.741	-0.810	0.583	-1.530	0.628
468508	-0.446	0.284	0.688	-0.145	-1.848	-0.831	-0.427	-1.196
431937	-1.233	-0.864	-0.057	0.751	-0.605	0.438	0.230	-0.005
448603	0.494	-1.255	-1.290	-0.314	0.498	-1.438	-0.678	0.434
444500	1.930	2.722	-0.111	-2.034	0.881	-0.951	-0.214	1.198
601117	1.107	0.178	0.780	-0.581	0.580	-0.881	1.609	1.358
615383	0.850	0.219	0.008	1.313	-1.122	1.341	0.511	0.882
434342	0.664	0.885	0.098	0.436	0.504	0.379	-0.934	-0.326
435100	-0.248	-0.779	0.256	-0.067	1.197	2.014	0.059	0.133
431278	-0.838	-0.442	1.847	0.479	-0.635	-1.944	1.410	-2.622
445648	-0.868	-1.106	0.045	2.452	-1.028	0.883	-1.085	0.129
448857	-2.354	-0.969	-0.096	0.409	1.287	0.932	0.493	-0.480
435267	-0.929	1.681	0.967	-1.557	1.593	-1.399	-1.063	1.024
461275	-1.697	1.781	-0.401	0.239	0.013	-1.018	-1.333	-0.026
613816	-2.858	0.164	0.283	-0.453	1.259	-1.446	-1.263	0.669
608767	-1.172	-0.532	0.687	-0.207	-1.196	-0.275	1.815	-1.208
620869	2.337	0.142	0.117	-0.057	-1.506	1.131	0.811	-1.037
478981	-0.461	-0.791	-1.138	1.003	-0.263	0.553	-1.038	-2.344

464630	-2.367	0.944	-0.417	0.524	0.127	0.592	-0.839	-0.974
466303	-2.046	1.466	-0.205	0.287	-3.255	-0.635	-0.231	1.093
452647	1.423	1.558	0.073	0.041	1.785	-0.156	-2.193	-0.393
441370	-0.833	0.320	-0.953	-0.361	1.797	0.431	0.197	0.004
619166	1.852	1.077	-0.771	0.152	1.209	1.751	0.368	0.397
472803	-0.829	-1.809	1.511	0.280	-0.558	1.649	-0.784	1.101
442308	1.072	-0.311	-0.008	-0.232	-1.285	-0.582	0.156	0.333
469383	-1.652	-1.112	1.278	-0.334	0.463	0.092	0.168	1.108
614383	-0.666	-1.587	-0.224	1.893	0.897	-0.655	0.439	-0.399
438617	-2.697	0.660	0.927	2.259	0.388	-1.502	-0.004	-0.101
613936	-0.798	-1.443	0.296	1.030	1.259	1.481	1.455	0.634
472163	-1.431	-0.316	-0.870	-1.875	1.096	0.547	1.925	-1.771
447458	2.493	-1.480	-0.125	-0.130	0.602	0.349	0.546	2.733
474792	-2.956	0.485	-1.042	0.876	-1.057	-0.810	-1.390	0.922
470559	0.235	-2.393	1.077	-1.276	1.156	-0.710	-0.456	-1.505
432399	1.967	0.753	0.403	1.494	-0.302	-0.160	-0.173	-1.851
607605	0.849	-1.234	0.753	0.628	1.061	-1.081	1.703	-2.299
600153	0.876	-0.096	1.197	-0.312	1.947	1.088	-1.857	-0.893
465979	1.721	1.660	1.317	-0.547	-0.883	0.537	0.597	-1.078
466555	2.378	1.600	1.577	-2.022	-0.072	-0.203	-1.874	1.812
444155	1.673	-1.365	-0.762	0.613	-0.122	2.475	0.349	0.467
465764	-0.547	-1.493	1.097	-1.085	1.812	0.983	0.884	0.768
446898	-0.619	-1.464	-0.421	1.660	1.174	-1.011	-0.094	-0.605
453274	-0.024	-1.125	0.136	0.002	-1.648	0.210	2.037	0.170
479320	1.370	2.420	-0.160	0.935	-1.602	-0.702	-0.870	1.297
443462	0.336	-0.717	1.840	-0.137	0.536	-0.231	1.532	0.414
446158	-0.706	-1.090	0.647	0.586	0.062	-0.619	1.224	0.091
602514	1.983	2.150	1.572	-1.684	0.392	-0.828	-0.006	-1.248
477356	0.374	-0.526	0.886	-0.426	-0.385	-1.500	0.687	0.092
434669	2.840	-0.440	1.338	1.986	0.989	-0.723	0.095	0.951
609322	-0.755	2.591	0.199	2.015	-0.518	-0.737	-0.759	-0.063
614265	-1.247	1.512	1.037	-1.439	0.811	0.525	-1.282	-0.525
606177	-0.302	-0.676	0.820	-1.381	-0.276	-0.149	1.082	2.540
461514	-0.843	-0.937	-0.428	-0.020	-1.056	-0.505	-0.801	-2.668
454685	1.698	1.755	0.175	1.217	0.065	-0.380	-0.760	-1.221
477260	0.271	3.036	0.295	-1.277	0.177	-1.686	-2.194	-0.116
469126	3.100	-0.843	-1.635	0.840	0.446	0.606	-1.629	-1.389
443402	1.543	-0.193	0.133	0.387	-0.849	1.668	0.110	1.486
479408	-1.125	-1.955	-2.062	0.405	-1.320	0.394	-1.077	1.361
467227	-0.136	-0.793	-1.760	-0.521	-2.400	1.857	-0.591	-1.283
468433	1.471	-1.222	-0.751	0.394	-0.077	1.856	0.334	-0.074
604289	2.181	1.761	-2.192	1.501	1.210	0.584	-0.013	0.743
471366	-1.204	-1.245	0.253	0.301	0.641	-1.391	-0.924	-0.287

450746	-1.442	-0.633	0.139	1.520	-0.432	0.762	1.327	-0.102
614948	-0.475	-2.158	0.315	1.247	-1.934	-0.495	-0.227	2.215
473935	0.871	0.631	0.022	-0.627	0.223	1.424	1.940	0.118
617267	-0.012	-2.478	0.987	0.083	-1.360	0.536	-0.354	-0.173
470670	-2.214	1.275	-0.110	-0.908	-0.219	0.109	-0.117	1.045
450368	-0.869	-0.738	-0.156	-0.407	0.085	-0.711	1.244	-0.578
448809	1.808	0.471	-1.291	0.119	-0.419	0.195	0.494	0.938
469653	0.583	0.012	0.587	-1.928	-0.143	0.359	0.712	0.350
615688	2.469	-0.070	-0.430	-3.402	0.584	0.024	-0.997	0.531
465631	1.289	0.177	-0.889	-0.872	-0.280	0.295	1.559	-1.796
443344	-1.055	2.278	1.349	-0.860	0.414	-0.234	-0.021	-0.137
441363	-1.037	-1.472	-1.257	-0.301	0.364	0.717	0.398	1.604
462683	1.800	1.812	-0.337	0.460	0.566	1.219	-2.202	-0.430
463184	1.666	0.621	-1.155	0.261	-0.854	0.804	-0.030	-0.134
612826	-0.796	-1.907	0.466	-0.486	0.877	0.652	-1.038	-0.744
433155	-0.762	-0.408	-0.413	-0.890	-1.759	-0.213	-0.537	1.044
616120	0.159	-0.447	1.104	-0.857	0.256	-0.498	-0.440	0.940
461744	0.494	1.127	0.034	1.844	-0.087	-0.012	-1.559	-0.584
475916	-0.377	-2.049	0.085	-1.365	-1.910	0.742	-1.325	1.301
454434	1.201	0.335	0.047	0.404	2.969	-0.088	-0.228	0.516
464353	-1.463	-1.928	1.440	0.579	-0.812	-0.452	-0.034	0.880
610302	-0.588	-0.961	-1.946	-0.806	-0.620	1.562	0.390	-0.594
462106	-1.317	-1.840	0.058	-0.152	0.937	-0.288	1.437	0.933
431389	-0.220	-1.620	0.162	0.681	0.681	-1.729	0.333	-0.036
442866	0.257	-0.537	-1.919	-0.610	1.228	1.939	-0.854	0.830
446755	-1.017	2.481	0.207	-0.453	1.850	0.000	0.505	0.967
464743	0.050	-0.594	-1.289	0.838	0.977	0.713	-0.596	-0.816
437889	0.745	-1.065	1.934	-0.986	-1.156	-0.950	-0.524	-0.093
473638	1.791	2.615	0.114	0.870	0.485	-2.068	0.443	-0.578
444232	-0.124	1.581	0.083	-0.048	0.902	-1.054	1.384	-1.198
477695	-1.875	-0.338	-0.703	0.026	-1.017	0.601	-0.546	-0.968
458237	1.769	-2.094	1.006	-0.106	1.634	0.224	-0.977	0.804
441499	-0.129	-0.039	-0.353	-0.201	0.553	-1.502	1.075	0.601
613436	-1.625	2.139	1.381	0.678	-0.738	-1.011	-0.026	1.107
448912	1.231	-0.141	0.781	-0.134	-0.613	1.492	0.592	-0.606
468872	0.015	-2.341	-1.778	-1.069	-1.060	1.201	0.860	-1.111
619811	0.162	0.323	0.755	0.472	-1.022	-0.665	1.472	0.912
614166	-1.001	-1.460	1.066	0.843	0.523	0.322	1.107	-0.463
456600	-1.291	2.371	0.053	0.127	1.011	-1.163	-0.942	-0.146
618405	-3.142	0.178	-0.612	0.433	-0.200	1.149	-0.546	0.269
430832	1.390	-0.193	1.675	-0.398	-0.240	0.798	0.819	0.766
610989	-0.970	2.770	-0.188	0.283	-1.542	-0.512	-1.325	0.705
447750	1.411	1.734	0.967	1.053	-1.734	1.347	0.004	-0.182

608708	-0.451	-1.202	-1.520	-2.257	0.053	-0.614	-0.153	-0.668
469650	2.448	0.050	0.361	-0.184	1.930	-1.448	0.395	-1.185
602304	2.055	0.497	-0.748	1.586	0.113	0.595	0.815	-1.788
459878	0.328	-0.732	-1.235	-1.883	1.247	0.211	1.390	0.336
441142	-0.494	3.171	-1.303	-1.467	-0.625	-1.603	0.561	0.301
465667	0.803	0.277	-0.625	-1.261	-0.070	-1.476	-0.014	0.736
473109	-1.404	-1.351	-0.982	0.960	-0.791	-0.151	-1.368	-0.832
619794	1.025	0.598	-0.268	-0.966	-0.372	-0.619	1.124	0.118
602258	1.844	1.454	-0.038	1.465	2.150	1.563	1.081	-0.925
479724	0.932	4.144	0.633	-1.567	-0.474	1.828	-1.337	-0.039
442210	1.135	-0.042	0.327	-1.228	-1.800	-0.312	0.646	0.101
463291	-0.458	-1.043	-0.686	-0.446	1.581	-0.135	-0.530	0.966
474898	-1.555	1.832	0.743	-0.550	-0.921	1.461	1.428	0.218
431354	-0.572	-1.142	0.128	-2.495	-0.133	-0.166	1.466	1.544
617460	-1.577	-1.641	-1.612	1.022	0.777	-0.538	0.906	0.215
609317	-0.752	1.116	-0.791	0.768	0.665	-0.654	-1.357	-1.688
479821	0.060	-1.766	1.311	-0.107	0.649	0.569	1.166	-0.207
473394	1.323	-0.112	-0.256	-0.410	-1.370	-0.700	-0.237	-0.786
603882	2.623	-0.607	2.230	-0.378	0.423	-0.543	-1.855	-0.402
615229	-1.631	1.802	-0.472	0.704	-1.013	0.622	-0.206	-0.315
620197	-0.001	-1.924	-0.310	1.254	-0.158	2.936	0.123	0.340
438215	-0.684	0.120	-0.117	0.342	-0.391	0.789	1.353	-1.137
444583	2.077	0.336	1.418	1.564	0.692	-0.546	0.316	0.259
471866	-0.143	2.909	-0.877	-0.901	-0.136	1.273	-1.481	-1.395
616884	-0.366	3.066	1.304	-1.241	2.107	1.075	0.813	0.810
448310	0.272	0.161	-0.631	-0.670	-0.503	-0.479	-0.989	1.681
478902	2.542	0.419	-0.473	-0.447	0.276	-0.042	-2.927	0.136
442695	-2.000	1.459	-1.783	-1.884	1.329	-0.849	1.213	-0.218
613826	-3.186	0.389	0.888	0.823	-1.041	-0.090	0.313	-0.552
476203	-0.657	0.153	-0.143	-0.661	0.255	2.414	-1.492	1.713
604333	0.046	-0.189	-0.839	-1.164	-0.274	-0.237	-0.299	2.447
442604	0.576	1.260	0.734	0.177	-0.457	0.025	-0.949	2.801
435663	1.884	-1.058	0.851	-0.121	-0.499	-2.566	-1.059	0.184
470866	-1.288	-0.915	-0.710	-1.132	-1.834	0.453	0.553	-0.111
612908	-0.420	0.633	-0.319	0.730	0.477	-2.134	0.039	-0.325
441871	0.591	-1.591	1.319	-1.672	0.875	0.031	1.241	0.167
431496	3.267	0.159	-0.569	0.545	-0.031	-1.316	-0.096	-1.261
436499	-0.558	-0.897	-0.335	1.424	-0.535	0.040	-1.416	-0.441
469853	1.547	1.642	-0.351	-2.747	-0.084	0.502	-0.850	0.275
605369	2.114	-1.145	-0.756	-0.074	1.472	-0.091	1.106	0.751
448466	-0.339	-0.040	0.105	-0.011	-1.708	3.064	0.468	-0.541
432786	-1.076	-0.282	1.761	0.843	-1.139	1.175	0.716	0.020
473591	-0.252	0.612	0.116	-0.992	-1.314	1.111	0.540	1.164

618418	0.858	-1.873	-0.656	-1.414	-0.511	-0.949	1.171	-0.611
444558	1.876	1.693	-0.083	-1.581	-1.245	0.152	0.194	-0.688
457733	-0.856	-1.272	1.249	0.783	0.801	0.905	-0.920	0.299
466161	-0.197	-0.050	1.037	0.030	-0.771	1.248	1.437	-0.927
450800	1.463	0.228	0.467	-0.233	-0.383	-1.129	0.517	-0.172
458993	0.490	-0.375	-0.611	-0.163	1.180	0.905	-2.542	-0.014
468634	1.552	1.656	1.516	-0.937	0.552	1.169	0.095	1.278
461264	-0.694	-1.113	1.460	-0.919	-0.331	2.421	-1.317	-1.241
600184	0.937	-0.094	0.495	1.872	0.965	-0.965	-0.948	-0.631
604874	-0.122	-1.963	0.541	1.275	1.808	1.523	1.203	1.011
462377	0.384	-1.759	-1.326	0.881	-0.972	0.088	-0.181	-0.546
619657	1.142	-0.548	0.776	0.572	-1.179	-2.136	1.913	0.320
437323	-2.843	0.563	-1.493	-1.102	0.594	0.738	-0.003	0.377
432148	-2.110	1.231	1.481	-0.324	0.238	0.375	0.157	-0.602
439690	-2.490	1.004	-0.232	-1.547	0.490	-1.134	-0.194	-0.009
601848	2.616	1.711	1.258	0.596	0.743	-0.819	-0.413	-0.800
615821	3.122	2.102	0.549	0.442	0.523	2.670	0.323	-0.277
472475	-1.265	-1.659	0.275	-1.152	1.371	0.811	1.701	-1.598
457463	-0.411	0.045	-0.083	0.420	1.157	1.499	-0.293	0.846
604861	0.047	-1.032	-0.536	1.444	1.199	0.068	-1.348	-2.176
471519	0.015	0.285	-0.190	1.228	1.790	-0.127	-1.174	-0.326
618682	-0.185	-1.590	1.605	0.516	0.217	1.259	-1.331	-1.605
441425	0.247	-0.906	0.229	1.233	1.022	1.099	-0.216	-0.197
609336	-1.739	0.065	-0.675	0.747	0.455	1.245	0.743	-1.235
603320	-1.577	2.005	-0.027	1.797	0.797	1.001	-0.026	0.459
615446	-2.815	-0.275	1.985	0.174	-0.691	-0.102	-2.933	-0.486
435967	0.557	0.452	0.842	-0.136	-0.069	-0.588	1.131	-0.690
610246	0.477	0.026	0.626	0.158	-1.177	-0.100	0.414	-0.365
479327	-1.285	-0.651	-0.376	-1.602	-1.031	0.286	-1.021	-1.040
468300	-1.096	-1.081	-1.493	1.841	2.608	-1.251	-0.410	-0.590
612660	-0.600	-1.457	0.960	0.152	-0.769	-0.132	-2.082	-1.396
466691	-2.916	0.503	-0.310	-0.338	0.781	0.257	-0.223	-0.786
468515	-1.215	-1.363	0.138	0.867	-1.228	-0.197	1.415	-1.096
614521	0.338	0.646	-0.787	1.986	0.818	-1.508	-0.773	0.893
465921	-1.554	-0.874	1.748	-1.016	0.087	0.075	1.377	-0.569
604555	-1.664	1.747	0.135	1.812	-0.432	-1.420	0.078	0.143
616276	2.382	-1.194	0.587	0.517	1.387	-1.218	1.001	-0.258
463356	1.712	2.107	1.686	2.724	1.046	-0.579	-1.463	0.144
450184	1.170	0.255	0.059	0.610	0.451	0.137	0.205	2.662
466393	-0.288	-1.383	0.617	1.186	-0.186	2.028	0.753	0.789
471786	-0.339	-0.608	-0.199	1.509	0.457	0.284	0.764	-0.891
602289	-0.533	-1.465	-1.497	0.743	-0.881	-0.912	1.373	-0.349
445120	-2.452	1.253	-1.483	-0.076	-1.226	-1.692	1.060	-0.942

449260	0.852	-1.535	-1.332	1.873	-0.783	0.651	-0.423	1.651
472724	0.978	-0.388	1.161	-0.622	1.596	0.747	-0.866	0.318
475173	-1.592	-0.558	-1.334	-0.771	0.535	1.980	-0.164	1.264
443854	-1.275	-1.253	-0.732	-0.054	1.470	0.006	-0.228	0.455
461418	-0.287	0.458	-1.891	-1.130	-0.560	-0.781	2.408	-0.308
616164	1.240	2.667	-0.543	1.839	0.017	-0.830	-1.300	-0.983
620962	-2.013	-0.964	0.650	0.966	2.674	-0.114	-0.211	0.293
465201	-3.085	0.334	-0.081	0.939	-0.983	-0.309	-1.104	1.788
470488	0.767	-0.190	0.104	1.297	0.007	-1.247	-1.726	-1.369
462250	-2.594	0.802	-0.866	1.994	0.735	-0.010	-0.504	0.162
436408	2.944	0.999	1.306	1.512	0.487	1.124	0.798	-0.858
464230	2.278	-0.031	-1.106	-1.080	0.652	-1.566	1.879	0.897
478609	-1.845	1.753	-0.587	-0.615	1.158	-0.735	0.550	-0.251
437156	2.030	-0.942	-0.051	-1.569	-0.651	-1.774	-1.417	-0.895
432218	1.792	0.301	2.664	-0.954	-1.501	0.558	-0.897	0.794
620493	1.264	-2.264	0.246	0.468	0.377	0.540	-0.571	0.823
475391	-0.199	-0.357	-1.777	0.245	0.606	0.905	1.796	-0.346
440720	0.058	1.098	0.138	-0.322	0.669	-0.164	0.873	-0.761
606942	-0.741	-0.410	-2.155	-1.318	0.176	0.344	-1.293	-0.888
446971	-0.355	-0.231	0.300	-0.729	-0.667	-0.792	1.173	-1.052
470538	-2.055	0.885	-0.548	-1.307	0.498	0.432	-1.590	-1.561
601177	-2.773	0.424	-0.562	0.180	1.490	-2.464	-0.119	-1.028
451470	-1.085	2.555	-0.696	0.710	0.570	-1.861	-0.106	0.048
438529	-0.679	-1.363	-0.814	0.829	0.371	-0.789	-2.369	0.124
469742	0.263	1.283	0.405	-0.388	-0.254	1.977	-0.112	2.305
435534	0.524	-0.625	-0.179	-1.369	1.363	-0.604	0.596	-0.462
442239	0.480	2.310	1.521	0.387	0.110	0.637	2.399	-0.806
468986	-0.982	-0.807	-0.249	1.649	2.200	-0.798	-0.206	-1.180
606988	-0.097	-0.350	-1.056	-0.223	0.692	1.459	-0.753	-1.245
453719	0.179	0.409	-0.392	0.164	0.366	0.904	-0.314	0.178
475524	0.590	0.299	0.534	-0.079	-0.785	-1.294	0.729	1.129
617804	0.981	-1.524	1.535	0.796	0.082	0.536	0.985	-0.484
613399	0.083	0.496	-1.162	1.205	0.142	0.232	0.570	-1.321
453400	-2.594	1.105	0.937	-0.003	-2.248	0.346	0.319	0.089
615767	-0.504	-1.559	-1.079	-0.486	-1.013	0.693	-1.052	-1.813
615311	-0.746	-0.676	-0.851	-0.840	-0.534	-0.527	-0.184	-0.385
468470	-0.438	-1.780	0.402	0.610	-1.047	1.228	1.253	0.337
461383	2.715	0.254	-0.685	-0.393	1.718	0.688	-1.323	1.468
457727	0.853	-2.668	0.704	0.137	0.373	-0.395	2.703	-1.563
613327	-2.507	-1.476	1.446	-0.422	0.788	-0.646	0.048	-0.132
614941	0.387	-0.980	-0.079	0.611	-0.266	1.004	-0.319	-0.504
440680	-2.814	0.801	0.401	-0.919	0.877	0.617	0.905	-0.261
609949	1.195	-0.618	0.402	-2.035	-0.803	1.373	-0.946	0.160

479655	0.453	0.752	-0.949	0.152	1.236	-0.684	-0.990	1.870
439964	-1.089	-0.404	-0.436	-1.430	-0.118	0.236	-0.515	-0.131
478486	2.157	2.040	0.395	1.158	-2.035	-1.367	1.587	1.417
466498	1.321	1.176	-0.307	-0.037	-0.771	0.882	0.443	-0.277
430878	-0.088	-0.304	-2.047	-0.947	1.185	-0.241	1.445	1.428
600127	-0.459	-0.721	0.129	-0.467	0.361	0.348	-0.253	0.448
431968	0.510	1.291	-0.579	1.157	-0.820	2.257	0.218	0.364
462804	1.966	2.067	1.424	0.396	0.383	1.603	-1.657	-0.363
435809	3.189	-0.638	1.943	-0.953	0.302	0.930	-1.550	0.458
453193	-0.459	1.009	-0.687	1.234	-1.735	-0.383	-0.145	-0.313
459630	0.411	0.978	1.279	-0.190	0.675	1.133	-0.730	1.478
608982	2.832	1.387	0.004	-1.190	0.058	-0.621	0.850	-0.864
452218	0.516	-0.506	-0.836	-2.561	0.364	-0.435	1.319	1.365
434150	0.948	0.738	-1.525	-0.629	-1.506	-1.382	-0.045	-0.863
460579	-1.611	-1.074	0.336	0.291	-1.022	-1.309	-0.870	2.266
442142	-2.185	-0.073	-1.209	0.202	-0.813	1.176	1.459	-0.066
608807	-2.716	0.934	-0.033	2.245	-0.424	-0.154	0.720	-0.791
433153	-3.249	0.317	0.162	-0.458	-1.191	1.102	-0.303	0.162
436560	-0.839	-2.364	1.238	1.111	1.109	0.253	0.290	0.704
436784	-2.884	0.756	-0.130	0.102	1.326	1.285	1.248	-1.843
430621	1.799	-0.106	-0.589	-0.252	-0.830	0.198	-0.065	1.356
601574	-1.139	-0.327	-0.776	0.570	1.316	0.335	-0.080	0.446
433853	-0.090	0.163	0.151	-0.273	0.532	0.305	0.697	-0.249
453164	-2.632	1.065	-1.926	-0.447	-0.807	-1.914	0.542	1.178
613931	-2.915	0.549	1.246	-0.939	-1.228	-0.451	-1.210	0.537
607458	0.444	-0.027	0.631	0.910	-0.108	-0.790	-0.735	0.481
463835	0.162	1.189	1.867	-1.024	2.043	0.310	-0.566	-1.037
613945	0.460	1.602	-0.420	1.383	0.906	1.299	-0.098	0.367
432699	-2.396	1.070	2.291	1.294	0.420	0.242	0.442	-0.650
613119	1.563	-1.437	1.107	0.737	0.047	-0.777	0.154	0.332
472922	1.043	0.926	-0.495	-0.419	-0.210	1.028	0.659	0.089
613849	-0.924	-0.584	0.901	0.140	1.429	1.265	1.035	-1.891
603827	0.185	0.591	0.473	1.459	0.197	0.169	-0.855	-1.519
467780	-0.097	0.059	1.760	-0.450	-1.679	-0.736	-1.903	-1.148
460586	-2.447	0.612	1.679	-0.139	1.492	0.421	-0.392	0.825
613842	0.470	-1.325	-1.465	2.060	0.661	-0.745	-0.061	-0.310
435371	-1.747	-0.751	-0.532	0.158	-0.501	1.307	1.109	2.023
466289	-1.074	2.597	-0.260	0.361	-1.142	0.335	0.015	0.363
436173	-0.876	0.305	0.359	0.730	-0.057	0.386	-1.638	1.218
457234	-0.494	0.251	0.303	0.204	-0.437	-1.780	0.167	-1.463
474758	-2.469	0.945	-1.608	0.103	0.641	1.667	-1.328	0.670
477373	1.189	-1.579	2.976	-0.907	0.262	-0.426	-1.063	0.678
613471	0.648	-2.415	0.509	-0.561	0.631	-1.041	-1.001	0.836



601581	-0.473	-0.784	0.571	0.758	1.495	-1.133	-1.502	1.468
612102	-0.221	3.617	2.081	0.798	0.121	0.067	-0.072	-0.663
460263	0.883	0.143	-0.055	-0.871	-0.802	-0.808	-1.887	1.038
479134	-0.291	-0.061	0.534	-2.063	-0.298	-0.110	-0.195	-0.221
451467	1.232	0.236	-0.854	0.848	-0.489	0.166	-2.276	-0.786
602670	1.312	-0.223	0.192	0.657	1.691	-0.926	0.247	-1.647
613607	-0.035	-1.058	0.507	-0.448	-0.028	0.069	-0.551	-0.723
611556	1.009	-2.014	-0.268	-1.776	0.496	-0.079	1.261	-2.226
435518	0.711	0.784	0.659	-2.163	-0.264	0.140	-1.710	-1.009
465942	0.439	-0.047	0.262	0.177	0.707	0.452	-1.007	0.367
446174	-2.796	0.314	1.465	-0.644	-0.555	-1.699	-0.374	0.340
611651	2.837	1.930	1.657	-1.964	-0.404	1.215	-0.833	0.814
446657	-1.390	-1.168	-1.399	-1.028	-0.657	-1.158	-2.372	-0.645
612506	2.225	2.389	0.807	1.321	0.180	0.960	0.830	-0.737
618493	-0.401	-1.384	0.503	-1.221	-0.278	0.964	-1.113	-1.486
612664	-1.520	-0.617	-0.734	0.391	0.952	1.458	-0.575	-1.297
473653	-0.233	-2.113	0.175	0.608	-1.197	0.396	1.131	-0.921
454529	2.145	-0.679	-1.683	1.165	-0.450	-1.770	0.485	0.168
437422	-1.449	2.043	0.114	2.262	-0.829	-0.356	0.248	0.215
619470	1.962	1.956	-0.876	0.613	0.563	-0.565	1.603	-0.200
442666	-2.339	0.950	0.107	-2.168	0.553	1.023	-0.550	0.206
620507	2.252	-1.008	-0.656	-0.560	-0.227	-0.782	-2.013	-1.326
614867	-2.690	0.522	1.460	-0.129	0.165	0.262	-0.701	-0.763
609898	0.249	0.963	-2.300	1.175	0.095	-0.775	0.452	2.051
450702	0.329	-0.547	0.575	1.673	0.091	-1.187	0.654	0.710
600418	-1.545	2.347	-1.219	-1.373	1.316	0.569	0.417	-0.114
431202	-0.054	-2.739	-0.557	-0.128	-1.607	0.022	-2.361	0.634
457793	0.911	-1.806	1.760	0.504	-0.316	-0.161	-1.924	-1.782
470190	0.483	0.062	-0.354	0.897	-0.034	0.052	-1.877	-0.081
603733	-1.682	-0.182	-0.898	1.996	-0.022	0.871	0.470	-1.008
465136	0.312	0.574	-0.550	0.156	0.316	0.205	-0.598	0.346
611723	-0.793	-1.241	0.242	-0.845	-0.661	0.533	0.969	-0.994
608963	1.008	-1.953	1.301	1.454	-1.068	0.925	-0.576	-0.536
454139	-0.188	0.678	0.531	-0.149	1.416	0.891	-0.401	1.832
447560	1.206	0.234	0.326	-0.341	-0.935	-0.116	-0.162	1.490
444378	1.126	0.441	1.833	1.265	1.330	0.773	0.579	0.186
616583	-0.543	-0.733	-0.477	-1.646	2.197	0.408	0.948	-0.010
455913	-0.022	0.372	-2.000	1.572	0.988	0.439	0.421	-0.005
454399	-1.867	1.674	-1.441	-0.213	-0.899	-0.431	0.180	-0.507
602842	2.402	0.605	1.021	-0.199	-0.400	-0.342	0.774	-0.380
459428	-1.427	-0.265	-0.241	0.081	0.385	1.286	0.270	-0.037
613114	2.967	0.102	-2.380	-0.372	0.803	-0.206	-0.790	1.114
450709	1.454	-1.271	0.425	-0.745	-0.694	0.531	-2.181	1.646

444626	2.280	1.099	-0.500	-1.472	-0.636	1.493	-1.192	0.345
601206	1.311	-0.611	1.111	-1.372	1.010	0.424	-1.285	0.827
470389	-0.597	0.831	0.668	-1.052	0.180	-0.162	0.869	-0.205
615218	-0.756	-2.111	1.353	1.412	1.009	0.698	1.001	-0.477
606249	1.078	0.745	1.012	-0.313	-1.887	1.067	1.587	0.086
616161	1.235	-1.184	0.757	0.836	-1.348	-0.760	1.124	-1.077
442335	-2.617	0.567	-2.264	1.098	1.543	1.253	-0.335	0.131
604952	-0.221	0.398	-1.473	1.877	-1.471	1.675	-0.172	-1.068
441533	1.238	1.527	3.698	1.077	0.405	-0.339	1.260	0.844
471784	2.243	2.057	-0.070	0.655	-0.691	-1.145	0.843	0.223
453265	0.434	-2.318	-0.053	0.617	-0.389	2.411	0.253	1.146
444922	1.471	-1.716	-2.512	2.701	-1.958	0.756	-0.134	-0.146
474324	-1.151	-0.520	1.075	0.151	0.741	0.290	-1.513	-0.028
441298	-0.276	-0.249	1.296	0.593	0.595	0.775	0.056	-0.753
446606	3.058	1.751	-1.147	1.029	-0.296	-0.434	-0.019	0.107
459537	-0.716	0.058	-0.474	0.465	-0.040	-0.958	0.719	-2.249
440757	-0.999	-1.398	2.402	1.708	0.992	-1.609	0.278	1.678
604948	3.151	0.952	1.644	-1.602	-0.133	0.224	-0.494	0.750
433275	1.543	-0.839	-0.858	-1.095	1.940	0.975	-0.229	0.759
608309	0.231	-1.716	-1.971	-1.265	-1.924	1.395	-0.788	0.580
462767	2.385	0.672	-0.039	-0.246	-0.243	-1.284	0.798	0.568
471785	-0.731	0.499	-1.124	1.986	-0.141	0.321	-1.247	0.085
601397	0.939	-0.948	1.293	0.094	0.427	1.044	0.117	1.748
477636	0.590	0.122	0.800	0.991	0.088	0.747	0.119	1.113
441967	2.063	1.981	0.089	0.786	2.249	-0.945	-0.491	0.543
454776	0.900	-1.830	2.240	1.040	0.716	-0.336	0.848	-0.070
431532	0.651	0.582	-0.429	0.922	-1.011	1.386	-0.166	1.188
614169	-0.509	0.288	0.897	2.216	0.802	-0.833	-0.213	-1.556
601425	-0.466	0.013	0.751	-0.037	1.094	1.680	1.060	-1.153
477346	-0.327	-0.896	-0.337	-0.425	1.002	-0.591	1.464	-0.413
613587	-1.599	-1.079	-1.093	0.539	0.024	0.385	1.181	0.179
620358	-2.755	0.743	-0.981	-1.893	1.212	0.131	0.385	-0.294
617699	1.771	2.776	0.111	2.155	0.341	-0.017	0.791	-0.343
430567	0.487	-0.210	1.099	1.593	-1.744	1.283	-0.087	0.637
439870	-0.051	-0.741	0.424	-1.301	2.379	-1.921	0.688	0.532
438837	2.788	1.636	-1.476	-0.357	1.481	1.128	-0.032	0.857
458997	2.166	2.979	-1.251	0.154	-0.011	-0.390	-0.165	0.442
604147	-0.562	-1.206	-0.072	-0.119	-1.271	0.210	1.086	-0.863
606638	-1.425	2.275	-1.282	-0.537	-2.246	-0.566	-0.199	0.215
619620	-2.704	0.964	0.586	1.315	-0.031	-1.074	0.202	0.290
441671	0.665	1.185	0.646	0.045	-0.740	-1.531	0.120	0.084
610381	0.763	-0.376	0.115	-1.372	1.049	-0.986	-0.444	0.959
602416	-0.117	-1.967	0.706	0.091	-2.588	-1.388	0.452	2.366

459562	-1.351	-0.200	1.462	-0.029	-1.210	0.478	0.215	1.369
463271	-0.482	-0.746	0.349	0.579	0.020	1.784	-2.521	-1.470
458132	-0.936	0.274	-1.417	0.983	-1.342	0.142	-0.580	0.744
448949	-1.837	1.583	0.053	0.409	1.156	0.058	-0.134	1.241
603732	-1.058	-0.456	-2.304	0.331	0.549	0.269	-0.640	-1.211
608929	-0.204	0.513	-0.961	-1.637	-2.247	-0.260	1.627	0.160
469875	-1.241	-0.514	0.314	0.400	-0.474	0.849	0.661	-0.907
443342	1.127	0.910	-1.405	0.412	0.651	0.748	-0.064	0.885
456363	0.648	1.122	0.418	-0.139	-0.867	1.778	0.496	-1.415
470826	3.622	0.643	-0.727	-0.266	1.287	-0.540	-1.980	-0.737
458582	-1.690	0.511	-0.664	-0.504	-0.611	-0.618	-0.173	1.424
454480	-1.046	-1.928	0.535	0.848	0.255	-1.491	-1.051	1.236
435632	-3.287	-0.153	1.562	-0.203	-0.602	-0.663	0.044	0.210
442206	-1.760	0.071	0.626	-0.908	-1.161	-1.265	-0.020	-0.771
468303	0.219	-1.363	0.522	2.311	1.139	-1.013	0.007	1.491
467762	-0.538	0.323	-1.108	0.383	-0.489	0.894	0.246	-0.690
447188	0.244	-2.272	-0.609	-0.322	0.882	0.954	-0.851	-0.294
469438	-1.112	2.011	2.395	-0.317	1.421	-1.081	0.499	-1.065
462519	-0.303	1.036	-0.926	-1.183	0.700	1.442	-0.126	0.654
432534	-0.693	-0.726	0.216	0.729	-1.303	0.657	0.094	-0.343
436467	1.153	-1.361	2.253	-0.644	0.221	-0.065	0.226	-0.597
465674	0.570	-1.205	-1.902	-0.438	0.039	-1.189	1.307	-0.329
442389	0.108	-1.209	-1.376	-2.042	0.611	-0.052	-1.182	-1.119
471614	0.817	0.601	-0.598	-1.090	-1.141	-2.338	0.439	1.725
442936	-2.849	0.913	0.188	-1.426	-0.627	0.925	1.393	-0.175
437944	1.447	1.691	-0.433	-0.198	2.384	0.303	-1.491	0.133
473705	-0.970	2.684	0.430	-0.836	-0.389	-1.999	0.295	1.560
469363	0.162	-2.255	-2.107	-0.646	-1.589	-1.422	0.472	1.631
465376	-0.214	-0.130	0.906	0.458	0.640	0.200	0.530	1.591
438775	-0.586	-1.403	0.867	0.501	-0.386	1.345	0.783	1.981
457962	1.418	-0.634	0.712	-0.076	-0.402	0.766	-2.137	-1.193
477947	-1.242	2.001	0.263	0.637	0.002	-0.186	-1.617	1.059
431104	0.785	1.683	0.346	-1.245	-1.506	0.393	1.258	-0.629
456570	-2.964	0.565	-1.737	1.711	-0.412	-1.091	0.191	-0.906
612986	-0.394	-0.590	-0.010	0.021	-0.893	1.094	-0.129	1.610
615730	2.032	1.271	0.753	0.049	0.526	1.272	-0.416	-0.756
478640	1.564	-0.967	-0.244	0.149	0.394	-0.212	-2.491	-1.596
470510	-0.227	-0.310	-0.933	1.832	0.107	0.145	0.382	-1.854
439360	0.536	1.350	0.042	1.003	0.036	-1.795	0.794	-1.190
440251	-0.778	0.314	-1.887	0.673	-1.976	-0.673	1.133	-1.003
600313	-0.099	-2.799	0.149	1.017	0.657	0.718	1.395	0.448
452216	-0.097	-1.587	-1.163	1.950	0.074	0.523	0.660	-1.185
478532	0.329	-1.862	-1.073	-0.799	-1.252	0.760	-1.270	-0.862

616929	-0.764	-0.464	-0.654	0.282	2.199	-1.477	-0.589	0.824
620207	0.212	-2.865	-0.195	-1.217	1.055	-1.007	-0.887	0.589
605743	-1.168	2.624	-0.098	-0.053	0.468	1.235	1.101	-0.834
472814	0.145	-1.922	-0.565	0.132	-0.035	-1.591	0.293	2.130
464362	-2.252	0.947	-0.065	0.293	-0.847	-1.472	0.019	-0.416
456203	-0.260	3.296	1.215	-1.367	-1.670	0.894	1.288	-0.012
468984	2.070	-0.687	-1.044	1.308	-1.355	-0.082	0.480	0.201
473349	-2.909	-0.059	-1.462	-2.280	-1.019	-0.248	-0.882	-2.179
474771	0.223	-1.044	-0.261	-0.106	0.228	1.865	-0.945	0.387
448294	0.388	0.453	1.962	0.650	-0.674	-0.048	-1.237	2.189
606606	-1.367	2.166	1.144	-0.923	0.005	-0.599	1.062	-0.598
605220	0.100	0.001	-0.812	0.441	1.287	-2.106	0.563	1.522
466612	-1.348	1.956	1.515	1.349	1.281	0.602	-0.354	0.660
463331	1.251	0.406	1.084	-1.239	-0.717	1.857	-0.596	-0.526
457843	0.779	0.990	-0.752	-1.575	-0.877	1.984	0.984	0.121
609226	0.171	-0.593	-2.080	-2.504	-1.104	0.739	0.060	0.714
452942	0.024	1.411	-1.424	-0.156	-0.450	-0.155	-0.147	-0.692
609390	1.199	0.420	0.015	-0.405	-1.191	0.680	0.819	-0.254
446608	3.162	1.163	0.592	0.557	0.183	0.824	0.319	-1.193
602500	-0.371	3.307	0.685	-1.484	-0.461	0.665	0.898	-0.689
463809	-0.528	-2.795	-1.610	0.565	-0.749	1.022	0.399	1.349
611996	0.279	1.092	-0.347	-0.504	-0.136	0.928	-1.819	-0.114
459298	1.000	0.448	3.241	0.269	1.020	-0.083	0.890	0.988
468158	1.011	0.394	-0.753	-1.058	1.527	-0.409	0.901	-1.448
440831	-0.870	-1.184	-0.089	-0.185	0.789	1.076	0.758	0.537
603848	-0.205	0.074	-1.550	-1.891	0.120	0.362	0.898	0.804
617739	1.110	0.805	-1.868	0.032	-2.192	-0.662	1.558	-0.041
607133	0.850	0.532	-0.201	0.081	-0.738	-1.782	0.276	0.188
437470	0.558	0.362	0.398	0.077	0.142	0.580	0.373	0.658
461372	-0.218	-1.093	1.474	-1.161	-0.817	0.538	0.545	0.965
476130	0.805	-0.533	2.201	0.616	0.033	0.265	0.795	-0.703
452438	0.884	-0.616	0.531	-0.625	-0.643	0.197	0.276	1.346
460517	0.237	0.914	-1.190	1.043	0.969	0.954	0.714	-0.087
444896	-0.666	-1.792	0.751	0.747	-0.960	0.309	1.116	-1.477
448722	1.140	2.446	-1.407	1.397	-0.440	-0.821	0.243	-1.319
477856	1.331	-0.350	-0.163	-0.635	0.681	-0.617	-2.004	-0.534
617721	-0.730	-0.597	0.582	0.591	-0.185	-0.353	-0.022	1.612
454176	0.414	-0.478	1.018	-1.457	0.061	0.772	0.988	0.057
618127	1.354	-0.194	1.554	-0.871	-1.199	-0.352	-1.366	-0.011
441923	-1.334	-1.432	1.990	-1.261	0.441	1.705	-0.539	-1.231
604279	1.109	-0.402	0.059	1.289	0.605	0.898	0.686	1.655
440833	-2.522	1.066	-1.434	0.972	0.462	0.245	-0.162	0.035
451550	0.999	0.348	-0.042	0.569	-0.528	-1.304	-1.657	-0.412

431853	0.631	1.642	-0.248	-0.867	-1.012	-0.494	0.561	-1.471
614274	-0.186	0.286	-0.947	1.987	0.450	1.619	-0.288	-0.504
619148	-0.592	0.503	-1.331	-0.250	-0.306	-0.759	-0.816	-2.064
456781	-1.551	1.970	0.841	1.283	-1.197	0.421	-0.827	-0.631
434293	2.610	1.522	0.519	-0.137	-0.659	0.657	0.084	-0.300
460895	0.140	-0.406	-1.131	-2.617	-0.899	0.705	0.827	-0.257
601600	1.014	1.078	0.149	1.933	0.152	0.611	-0.432	0.302
465440	-0.363	-0.748	-1.605	0.501	0.854	-0.759	-1.952	-0.710
455482	1.143	2.574	0.065	-0.536	0.651	-2.416	-0.638	-1.584
438877	-0.275	-2.540	0.805	0.773	-0.491	-1.455	-0.128	0.866
479824	-1.538	-0.488	3.603	-0.820	-1.001	0.071	0.444	-0.239
477415	0.857	0.279	2.242	0.185	1.778	0.934	0.017	-0.667
614372	1.557	-0.522	-0.341	1.746	-1.012	1.347	1.063	0.617
465248	-0.962	-0.797	0.700	1.492	-0.077	-0.287	-0.331	0.431
449421	-0.155	3.595	0.446	1.245	-0.780	1.820	-0.563	0.881
445856	1.943	1.759	-1.136	0.536	0.068	-0.470	-0.266	0.740
608525	0.541	-0.817	1.123	0.677	-0.742	-0.173	0.486	1.287
608813	-0.487	-0.486	-1.055	0.686	0.181	-0.978	-1.144	0.709
459295	2.091	3.030	-0.266	-0.220	-1.567	1.024	0.554	-0.879
606144	-2.068	1.326	-0.234	0.277	1.511	0.024	-0.552	-0.337
476315	-2.904	0.316	0.413	0.213	-1.103	1.883	-0.092	0.271
475891	-2.807	0.752	0.326	1.028	-0.836	-0.070	0.043	-0.607
462525	0.499	-1.138	1.434	-0.647	-0.249	1.412	-0.074	-1.584
606283	-1.415	2.318	-0.162	-0.585	-0.015	0.216	0.523	-1.180
465252	0.577	-1.232	-0.842	0.148	2.030	0.721	0.290	1.415
449979	-0.619	1.374	-0.598	1.061	-0.780	1.915	-0.265	0.620
604681	-2.530	0.888	0.821	-0.013	1.699	-0.056	0.427	-1.491
466390	-1.203	-1.016	0.329	0.146	-1.111	-1.023	2.093	-2.463
612316	-2.762	-1.231	0.784	2.211	-0.876	0.349	0.023	-0.386
474731	-1.106	-1.581	1.205	1.793	0.380	-0.900	0.471	-0.535
603260	-0.248	-1.103	-0.510	0.248	1.887	-0.312	-0.722	-0.765
434370	-0.349	-1.904	-1.270	-0.627	0.445	1.081	-0.308	0.801
478388	-0.084	-1.346	0.756	-0.188	-0.784	-0.544	-1.188	-0.495
617883	0.553	-0.321	0.170	0.232	1.011	-0.037	0.087	0.871
464808	3.750	0.572	-2.183	0.142	-1.212	-0.737	0.956	-0.087
609458	-1.107	2.334	0.878	0.673	-1.456	-1.722	-0.599	1.498
432405	-0.722	0.751	-2.038	-1.450	-0.771	1.543	0.718	1.199
457875	-0.397	1.533	0.222	-2.033	1.560	0.104	1.728	0.307
477268	-0.094	-1.966	0.353	0.097	-1.112	-1.279	0.165	1.113
437580	-0.444	-0.450	-1.391	-0.384	2.049	-0.553	-0.914	-0.313
457121	1.131	0.234	0.339	-0.140	-1.037	-0.367	0.196	-0.327
436364	1.003	-2.118	3.315	0.032	-0.898	-1.335	1.532	0.298
467654	-0.357	0.308	0.600	2.510	-0.040	-0.147	-1.959	-0.573

468202	0.536	0.306	-0.581	-0.814	-0.789	-0.488	1.272	-2.045
456959	0.521	-1.657	0.358	0.518	2.791	1.233	0.943	1.086
447274	1.058	-2.126	0.835	1.331	1.119	-1.570	-0.892	0.212
608405	-0.418	0.070	1.762	1.462	0.497	-0.557	-0.452	-0.197
472253	-0.253	0.035	0.303	-0.488	-1.342	2.413	2.061	0.502
438923	-2.817	0.806	-0.433	-0.656	1.463	0.403	0.576	-0.605
607131	0.137	-1.566	-0.794	0.674	-1.125	-2.049	-0.873	0.185
601701	-0.911	-0.350	-1.788	-0.841	-0.796	-0.263	0.579	1.502
469220	-1.105	2.539	-0.445	-0.926	0.445	-1.319	1.125	-1.528
433250	0.887	-0.298	-1.773	-0.961	-0.669	0.059	-0.644	-1.557
444413	-0.064	-0.703	-0.688	-1.194	0.043	-0.377	-2.074	-0.981
433593	-2.534	0.939	-0.786	-0.349	-0.586	-1.383	0.180	-1.058
458143	-0.343	-0.917	1.169	0.999	-2.238	0.704	-2.094	-0.088
474167	2.296	-0.256	0.421	0.549	0.150	-0.479	-0.417	-0.558
476413	-0.439	-0.909	-0.838	-0.297	1.142	-1.194	1.193	0.634
600208	0.480	0.714	-1.345	2.176	-0.452	1.251	-0.084	-0.419
618926	-1.039	-1.017	1.798	-0.944	0.309	1.049	1.952	-0.390
606219	-0.583	-0.763	2.018	-0.573	-1.055	-0.857	0.198	-0.103
448436	1.357	-1.882	-1.147	-0.645	0.382	0.311	0.504	-0.956
447976	-0.423	0.456	-0.851	1.413	0.744	-1.606	-0.521	0.539
472236	2.699	1.343	0.772	0.781	2.656	0.521	0.732	-0.277
468232	-0.295	-0.916	-1.777	-0.129	-0.222	-0.413	-1.677	0.828
620819	1.898	-0.161	-1.215	-1.064	-0.888	-1.645	-2.075	1.489
452349	-0.938	2.419	0.523	0.423	0.497	0.655	-0.268	0.165
464646	0.864	0.724	-1.365	1.408	0.135	1.046	0.413	0.784
472209	-2.578	0.625	-0.150	-1.485	1.847	-1.854	0.586	-1.061
459955	3.096	0.574	-1.643	-0.698	0.560	-0.978	2.195	0.624
473389	0.495	0.314	1.829	-0.215	0.127	-0.380	0.118	-0.698
616767	2.911	1.028	-0.794	1.244	-0.194	0.787	0.993	-0.547
442948	-1.039	-1.648	1.535	0.583	0.989	-1.644	-1.278	-1.186
458936	1.413	3.148	1.420	-1.602	0.704	1.025	0.506	1.447
613921	-0.110	-1.018	-0.509	0.675	-0.964	-0.658	-0.548	0.568
474598	2.474	0.827	1.611	-0.910	1.411	-0.594	0.611	0.773
440865	-2.817	0.500	-0.455	1.799	-0.664	0.227	-1.071	-0.448
450947	-0.654	0.083	0.193	-0.688	0.837	0.654	1.225	-2.059
473370	2.294	-0.480	-1.258	-0.987	-2.457	-0.013	1.341	-0.997
463153	-1.532	2.101	-0.660	0.063	-0.954	-0.606	0.312	1.345
612546	-0.511	1.011	-1.195	-1.088	0.068	0.854	0.646	-1.129
442919	-0.523	0.309	-1.770	0.625	-0.953	1.570	0.359	0.158
449352	0.785	-1.964	0.441	-0.208	-2.304	-0.371	1.903	-1.448
470104	1.355	-1.093	-1.048	0.363	2.525	-0.952	0.708	-0.634
459889	-1.055	-1.803	0.835	0.249	-0.118	0.368	0.896	-0.543
478868	-2.541	1.098	0.768	1.384	-0.276	-1.328	-0.354	1.470

463307	0.427	-0.768	-0.623	0.581	-0.197	-0.514	0.008	0.196
453620	-2.279	0.630	0.026	0.056	1.795	-1.180	-0.576	1.359
466238	0.325	-0.737	-1.957	-1.245	-0.178	1.463	0.991	0.188
607697	-2.990	0.425	1.014	0.982	0.261	0.523	0.537	0.810
477631	-1.818	0.817	1.981	-0.645	-0.079	1.077	-2.048	-0.263
443625	-0.644	-1.916	-0.337	1.725	0.416	-1.194	-0.290	-0.412
472223	-0.812	-1.658	-0.306	0.272	-0.151	-1.318	0.643	-0.224
608328	-0.546	-0.020	-1.559	-0.752	-0.476	-0.415	-0.702	-0.518
474860	1.529	1.405	0.437	-0.455	-0.183	-0.434	-0.086	0.535
606858	-0.115	3.703	0.002	-0.233	-0.235	0.626	-0.541	0.788
477938	0.618	-0.616	-1.777	2.127	-0.300	0.128	-0.754	0.048
462698	-0.736	-2.028	0.712	2.531	0.870	0.298	0.355	-0.888
454552	0.217	0.261	1.705	0.056	0.353	-2.046	-0.556	-1.436
471585	0.366	-0.150	-0.197	-0.628	1.670	-0.060	-1.505	-1.211
455426	2.296	-1.858	1.109	0.339	0.573	-0.558	-1.717	0.402
469856	0.233	0.384	-0.418	0.347	-0.657	0.549	0.713	0.104
454191	0.873	-1.301	-1.560	1.042	-1.312	0.667	0.065	-0.608
468454	0.463	0.267	-0.353	-0.776	0.297	0.717	-0.422	2.019
614187	0.404	-1.664	-0.790	0.829	0.015	0.331	0.440	-2.557
433974	0.022	0.130	0.762	0.123	-0.714	-0.793	-0.476	0.568
604833	0.392	0.163	0.733	1.194	-0.881	1.028	1.298	-0.925
447469	0.039	-0.550	0.095	-0.687	-0.970	-0.945	0.804	-0.139
451529	0.702	0.112	0.390	-3.099	0.067	-1.338	-0.253	0.429
431202	-2.598	0.863	-0.025	0.806	-0.538	1.665	-0.318	-0.007
448190	-0.712	0.258	-1.359	-0.211	-0.287	0.974	-0.604	1.937
453713	-0.898	-1.222	-0.932	0.715	0.546	-0.702	0.545	-0.950
440153	1.514	-0.934	0.831	-2.343	0.559	2.482	-1.574	-0.400
619570	0.530	0.030	-0.685	-2.600	0.140	-0.401	0.501	-0.553
478947	0.909	0.420	0.033	1.463	1.429	-0.049	-0.078	0.462
443550	-1.775	-1.989	0.565	-0.955	-0.010	0.404	1.628	1.126
477644	-0.505	1.640	-2.096	-0.308	1.635	0.011	0.300	0.494
433696	-1.639	-0.792	-0.498	-0.659	-0.521	1.651	0.471	-0.448
443567	-0.874	-1.083	0.468	0.524	-1.550	0.245	1.670	0.607
430665	-2.424	0.968	-1.279	-0.086	0.413	0.740	-0.527	-0.376
431289	0.456	-1.776	-0.930	1.514	-1.788	-0.337	0.527	0.144
608177	2.130	-1.255	-1.086	-2.008	2.553	1.044	1.237	-0.320
442797	0.043	-0.869	-1.561	0.167	1.172	0.922	0.177	0.166
441714	1.530	2.991	0.562	0.659	-0.632	0.752	1.411	-1.022
612260	0.114	4.254	0.658	0.042	-0.759	0.293	1.414	-1.019

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	Comp.1	Comp.2	Comp.3	Comp.4	Comp.5
466132	1.2415596468	0.865935645	-0.6148603253	-0.807897669	0.395057230
468176	-1.1665419506	1.650451366	-0.9171206770	-1.245951620	-0.988629972
430632	-0.8586641830	-0.756302741	0.3976201520	-0.836449679	0.082149722
608117	0.6826034422	0.378453188	-0.2359747863	-1.999537493	-0.821992632
610706	-1.6739533637	1.749191788	0.8290163200	-0.440258168	0.537247194
478456	0.7759484258	-0.483433427	1.2552455066	-0.902202415	-0.039698146
441716	1.3722994418	-2.457289535	-0.9895136516	0.550372763	-0.158622149
603195	-0.0212737493	-0.652901363	-0.4886983373	-0.633271492	1.041858946
601734	-2.3865636491	0.034116084	-2.1860751470	-0.130423686	1.020287487
600983	-0.4583484476	0.698305049	0.2366624300	1.108670385	1.074541421
462283	0.8316849084	-0.057140990	-0.0492007785	0.438837648	0.760392436
615561	4.5869849716	0.188769741	0.9536236039	-0.566789815	-0.633289092
432220	-1.8645679451	-0.924046566	-1.5568659693	2.272827301	-0.864891319
464652	-1.4122764476	0.158367418	-0.0664269676	-0.190062555	-0.758098771
476685	-0.3011368266	0.556354196	-0.3740019078	-0.730137145	-2.260919029
458733	3.4447936957	1.477336998	-1.6819269046	0.892889347	-1.691976362
619884	-1.3361576484	-1.387151502	0.0684746633	-0.741273918	-0.038593037
470610	0.0871859163	-1.391242329	0.2565713119	-0.245475999	-0.899200294
472135	-0.2601432594	-0.160420192	-1.2163489145	0.642534089	-1.355769757
477670	0.0342174794	-0.550281469	0.4078415338	0.061189542	0.622786407
618845	1.5975029258	2.739825812	0.8380680107	-0.060476491	0.181860850
442479	-0.5248724315	0.780202395	1.7840461240	0.038239901	-1.029121079
443920	3.5494903800	-0.024766085	-0.3928341712	0.033519963	-1.010647070
453148	2.7251921205	0.920452357	-0.6541966513	-1.761760375	1.682471168
434733	0.2439461106	0.246293350	-0.4281933020	-0.151848125	0.925721261
613982	0.8650212849	-2.637417012	0.2386025975	-1.706820110	-0.237631619
436984	-0.9818328238	2.464168578	-1.5351416809	-0.436998689	-1.221859677
607730	-1.6572959075	0.907927803	0.0835766869	0.015396912	0.917333991
609837	0.3641529992	0.208220972	-1.4155179991	0.519809477	0.021867293
432211	1.5232935823	-0.693506260	0.4421067941	-1.258905636	1.621882109
473328	0.1130525302	-2.462352609	-2.0842080032	0.665493434	-1.016172411
610393	0.6196640710	-1.019694480	-0.1427941956	-1.619162775	0.006747470
614780	-1.2104739665	-0.052680787	0.7758234195	-0.783743278	1.312517078
472248	0.4807763923	-1.961451148	-0.8030822225	-0.526508772	0.137189437
603381	-0.0961713574	-0.365934548	-0.4515841465	1.762021970	-0.425873484
479224	-0.3046281273	-1.295404861	-0.6033658511	0.632887796	2.200370120
430141	-1.1466418334	-1.497764939	-0.2331422040	-0.788804117	1.279524004
620757	-0.7971653780	2.675789713	-1.5192027774	0.349548894	0.882161741
615901	2.7125631291	1.010057841	-0.6361228771	0.530925033	-0.333745904
474615	0.5862860294	-0.050519064	-0.6818902209	-0.941516452	-1.915594276
456446	-1.6489826197	-1.046163405	0.2751633041	-0.186336636	1.454841495
470577	1.2292353563	-2.235405078	0.2085552177	0.227545390	-0.378414703



441648	-1.4770513226	-1.721743683	-1.1525500169	0.002375655	-0.563575953
433782	-1.3650200646	-0.577848709	0.5489449439	0.346432459	0.906876657
468104	0.5113097587	0.323385107	1.5327517112	-0.972452372	-0.566059375
459407	0.4911336008	0.080677390	0.9347918814	-0.377829326	0.414894503
472573	-0.7215683595	-0.479563466	-0.2427965992	0.039593575	0.264801392
433473	1.9305599400	0.701556187	-0.8890892347	-0.380909215	0.148596623
446326	-2.2688234387	0.945744811	-0.7169113202	1.274463819	2.053160478
435481	0.6772792107	-1.135283381	-0.5006645222	1.492743985	0.242226507
477310	3.7174514254	0.812210839	0.0038650577	-0.798016765	0.528088039
609930	-2.5955104089	0.578865626	-0.8167727082	-0.741556197	-0.990689233
603993	-2.0020505343	1.429432996	0.5341542395	0.799833001	1.983944478
437818	1.2481067994	-0.612597321	-2.1453662307	1.809638518	-0.487943792
478423	-2.1777559116	1.563968921	0.3253612473	-0.480922223	-0.344859943
467784	-0.3526483511	-2.546464990	0.1057962907	0.794517974	0.759151292
606714	1.2507323144	2.445439638	0.7743998678	-0.795995545	0.106679339
464691	-2.7750637265	0.975045504	0.6967567671	-0.939790225	-0.955685086
431683	-0.6438124304	-0.603622064	-0.8185958787	-0.062473041	-1.355479815
431725	0.6382933004	-1.199750905	-0.3807718848	-0.466123922	-0.078301950
609216	1.2260214710	-1.933837292	-0.9848989609	-0.539075187	0.588749717
452787	0.5217454881	0.591148534	1.5392375956	0.390056613	-1.675257025
468767	-1.1787362777	-0.371378179	-0.1217830571	-1.665524363	0.240094901
435489	1.4439984694	-1.027087016	1.8685878262	-0.210459799	-0.168489102
450149	1.1006774424	-0.037605310	-0.7516542730	-1.408509228	-0.476956393
458364	1.8020990653	-1.379229231	1.0122546038	1.253406797	0.485200754
476458	0.3834887126	-1.960132040	-1.5930469221	-0.537225634	-0.380544522
602433	1.4558904608	3.235699447	2.1980254195	1.730720205	0.114511801
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463181	1.3980671470	-0.579057161	1.0023112501	-0.788815629	1.075048674
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472895	-0.0020023789	-0.740596402	2.9496000578	0.640001755	0.380515537
475847	-0.1323539762	-1.513550692	-0.7117681855	-0.063026379	2.216148736
476978	2.1051042552	-1.105179292	-0.4270241727	0.093635819	1.890887607
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608335	-1.6789176540	1.514094736	-1.0829053220	-0.586205771	1.020438082
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605486	1.2429570736	0.774405325	-0.6505056041	-2.468840965	0.437427182

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432934	0.3583336237	-1.312417542	-2.1988112598	0.059164842	1.535008834
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607763	-1.5704312209	-1.210031028	-1.2530611385	-0.428940607	0.224360330
436973	-0.3440858700	-1.354492471	0.1013838567	1.558419587	-0.493738398
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439787	-1.0264876575	2.547646073	0.3748841030	0.245522062	0.429558971
464839	-1.6251981246	2.017642679	-1.0688920078	0.636420147	-0.708973740
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475292	1.0243951735	-0.503193394	-0.4429472224	-1.512361196	0.648046411
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437688	-1.2325115118	-1.085512193	-0.5002762260	-1.403795380	0.264762713
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458139	1.7117342430	0.111187935	0.8297719432	-0.106727624	1.209418331
443191	1.0767767800	0.037791937	-0.4292862627	1.641205967	0.168305924
613647	1.0659667102	0.187280035	-0.2098446148	-0.990105515	-0.626925975
460820	-0.3962226172	1.977639596	1.0015036803	-0.127703787	0.176062886
431121	0.8303918960	1.245547806	1.8659430220	2.231983414	-1.242516278
619735	1.1784218482	0.741210589	0.3788677258	0.655453940	2.928333732
470485	1.5625919348	-0.448411425	-1.4141270930	-0.830950772	-1.823819501
620473	0.4084635239	0.266915698	-1.1164918483	-0.208228438	-0.612115646
449800	1.8241933887	0.899186647	0.0769823138	1.520186285	0.106424902
602402	1.7052183401	1.082841583	0.1971931428	-0.919411386	-0.298886013
452456	1.4970909991	1.542949668	0.6619756445	-0.114476357	-0.096142828
439269	0.6993691557	-1.053208547	-0.2517354642	-1.069124852	0.087649608
617774	-1.1662584958	-0.151686634	1.5816872656	-0.070168278	0.215952147
477678	-0.4209956208	1.658770346	0.8640051740	-0.498301238	1.870060027
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456602	1.2185320371	-1.843333208	-0.2959150977	0.923907082	0.262576417
451560	-0.7483897257	-1.461216099	0.9711917572	-1.839127063	-3.091725435
453407	2.7942868544	0.667857306	-1.4191652006	-0.269921918	1.233346637
618655	-1.5722078153	-0.427801212	0.2581356118	0.038129808	0.702500074
612550	0.9074330244	-2.724523355	-0.0840746230	-1.518039961	0.725804483
466718	0.2872528816	0.355909825	0.4445015395	-0.066856497	0.240460807
617947	-1.2613473362	0.516627139	0.6769173859	1.853151107	-0.116464330
606238	-0.3370245835	0.851744552	-1.3764564506	0.031725441	0.159550377
463842	0.2654873267	-1.052347924	1.1645224560	-0.544997500	2.046807064
610354	-1.6491651153	1.261174451	1.4652647703	-0.714396206	0.841323460
461328	0.5939243748	-1.139579450	1.4460604825	-0.781783031	-0.386781142
458727	-2.9110599614	0.517437258	0.8333363686	-0.275545568	0.047382098
452587	1.7537614801	1.309465104	-0.3337469762	-1.529333492	-0.702279845
433184	-1.6481467090	-1.125524553	-0.8259263728	-0.676720782	-0.739468954
451280	2.5042922181	-1.472719715	2.2230204385	0.093635657	-1.387141153
603269	-2.8170501610	0.440538317	0.2987567727	-1.814881954	0.542587669
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447300	-0.9441367955	-1.201685123	1.1673381201	-0.751859201	-0.700151248
441783	-0.0531342290	-1.893686074	-0.0258218133	-0.773793001	-1.111732550
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467942	1.8947714589	2.405925254	-0.2516270508	-0.247935717	2.089589820
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432711	0.1639755423	-0.524181970	-0.3920516621	1.574107546	-0.430583473

463583	0.6580123126	0.657460436	-0.7749325253	-1.545368089	-0.905497777
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605408	0.4525736373	-0.109707212	0.1847559023	0.094732250	0.339233292
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611852	0.8683197875	-0.987847019	0.1459439171	-0.387308380	-0.201898164
444734	3.2900230226	-0.118146674	-1.5494861734	0.086480899	1.388292813
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466838	-0.3490205536	-1.949326090	-1.3101066769	0.843545420	0.330952067
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466137	-0.3103511435	0.729524118	-1.5473783146	-0.300204430	1.114063170
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474801	0.7315778982	-0.293496921	1.3520467530	1.093396749	-0.021001444
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478172	0.3133070796	-2.372922175	1.2814117532	0.862830344	1.933693327
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459122	1.2882764670	-1.133854275	0.1831171436	-1.477151275	-1.462726484
476737	-0.3049449025	-1.085769761	-0.2699647047	1.337424534	-0.865870204
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449221	-0.4498373290	-0.624123730	1.5417462081	-1.391402614	-2.039641892
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613178	0.5507949420	-2.476426404	-0.4578517727	-0.365329465	0.339668615
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471704	-0.7407569253	-1.717916687	0.4333341696	1.253550562	-0.499120737
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455672	1.6904272831	1.279634383	1.0115066518	-0.048678393	-1.700042213
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435552	-0.3232598405	1.534000906	-0.9564972305	1.025057469	-1.260531374
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469895	-1.1160117574	2.645624266	-0.6134918266	1.023865048	-0.129062647
457722	-1.0833483818	2.490390538	-0.6237240388	-1.094150341	-0.834216128
473645	-2.8966642996	0.210725180	0.4357530600	0.737310576	1.210274504
619108	1.4635106891	-0.332413418	0.1511735340	-0.291856450	0.619647443
610479	-0.0914352429	-2.218256194	0.4857607908	0.341238111	-0.410533725
474998	-1.5755122184	1.674153513	0.3136307110	0.540637870	0.116243211
616341	-0.9493087478	-0.543347768	0.1305804961	-0.619009740	0.540614507
460535	1.0080354382	1.199309530	-0.0566098083	1.338536150	-0.324875724
606487	0.0227226367	-0.299060189	-1.4575023803	-1.838191212	0.585480033
620737	-1.1354878654	2.400906910	1.4707528893	-0.048427556	-0.699030896
445904	0.5279646037	-1.933176510	-0.6223537317	1.046063756	1.146078300
464145	0.1933941287	0.073777208	-0.6120767213	0.129944946	1.261838817
466818	0.4469897258	-1.167675161	-0.7050973154	2.713570535	0.691169402
464237	-0.9258487275	-3.094318464	1.1491327601	0.832414285	-0.545515681
618455	0.5693845549	1.328923218	-1.3438662420	1.275387946	0.036578269
456602	0.2544829221	-0.950136710	0.3936087673	-0.586989569	-1.929666778
616126	-0.2994682608	-2.150914661	0.7241185627	0.740711926	-0.810457991
468508	-0.4459483784	0.284014919	0.6884740206	-0.144680511	-1.848391780
431937	-1.2332194893	-0.864353461	-0.0569138736	0.751252670	-0.605155694
448603	0.4943181404	-1.254896895	-1.2904822590	-0.313723500	0.498055597

444500	1.9303755669	2.722105078	-0.1107486348	-2.034464572	0.880906018
601117	1.1066405062	0.177778072	0.7798506400	-0.581233981	0.579724273
615383	0.8496939382	0.218824185	0.0081576287	1.312869857	-1.121646076
434342	0.6643753298	0.885319386	0.0982272316	0.435833124	0.503609453
435100	-0.2482207763	-0.778889813	0.2560372309	-0.067139238	1.196940939
431278	-0.8384507081	-0.442313532	1.8472983939	0.478637713	-0.634661032
445648	-0.8679991250	-1.106371997	0.0445791974	2.451679867	-1.028046325
448857	-2.3538176648	-0.969080521	-0.0957168856	0.409011271	1.286534843
435267	-0.9289618853	1.680614014	0.9674813255	-1.557328953	1.593315489
461275	-1.6974945841	1.781173645	-0.4012560726	0.238858228	0.012890263
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608767	-1.1721908130	-0.531833932	0.6871405484	-0.206531285	-1.195871801
620869	2.3368032080	0.141935999	0.1168610594	-0.056593118	-1.506084665
478981	-0.4608084986	-0.790908306	-1.1382177439	1.002928206	-0.263349258
464630	-2.3665023492	0.943613329	-0.4167726438	0.523686947	0.126612252
466303	-2.0462988941	1.465870448	-0.2050608569	0.287062192	-3.255031445
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441370	-0.8326195032	0.320137927	-0.9527251023	-0.361440244	1.796521101
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472803	-0.8293326278	-1.809132313	1.5108999700	0.279553426	-0.557884180
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614383	-0.6664590996	-1.586932584	-0.2240102064	1.892779607	0.897009015
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613936	-0.7977146508	-1.443384604	0.2960655795	1.029812963	1.258729178
472163	-1.4314239089	-0.316309404	-0.8696479399	-1.875043778	1.095857362
447458	2.4931248948	-1.480428111	-0.1251833812	-0.129737717	0.602306284
474792	-2.9559527914	0.485288788	-1.0420088882	0.876276639	-1.057460915
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432399	1.9667444713	0.753088021	0.4033567140	1.494274433	-0.302093248
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465979	1.7210245276	1.659756055	1.3171132893	-0.547032412	-0.882681909
466555	2.3780359648	1.600033928	1.5766806623	-2.022298302	-0.072400687
444155	1.6729780605	-1.365072159	-0.7622227587	0.612685430	-0.122240270
465764	-0.5473109997	-1.492840341	1.0969025719	-1.084734349	1.811738288
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479320	1.3696704621	2.419570851	-0.1596631534	0.934732384	-1.602026948
443462	0.3357048219	-0.717049845	1.8396373654	-0.136714269	0.535727982
446158	-0.7064938276	-1.090091042	0.6466594466	0.585561845	0.062279507
602514	1.9825565958	2.150172291	1.5721886688	-1.684100831	0.391925145
477356	0.3739189080	-0.525735531	0.8863842977	-0.426275317	-0.384794662

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606177	-0.3017245109	-0.676192531	0.8197140833	-1.381188840	-0.275527913
461514	-0.8430691696	-0.936945391	-0.4279896652	-0.019512298	-1.055610315
454685	1.6976457017	1.755257418	0.1747082414	1.217285962	0.065359669
477260	0.2711987376	3.036054889	0.2952862507	-1.277301077	0.176994639
469126	3.1001315357	-0.843290139	-1.6353495573	0.839589231	0.445690044
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479408	-1.1253869850	-1.954773071	-2.0616078255	0.405483261	-1.320196663
467227	-0.1356397555	-0.793271099	-1.7602429868	-0.520884237	-2.400132077
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614948	-0.4745763233	-2.158172672	0.3154158758	1.246977887	-1.934441762
473935	0.8713182279	0.630945990	0.0218800986	-0.626604743	0.223285292
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448809	1.8080892489	0.470656818	-1.2913847003	0.118960994	-0.418558749
469653	0.5830036819	0.012496023	0.5869326735	-1.928388171	-0.142796987
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616120	0.1587103445	-0.447160095	1.1036693858	-0.857030953	0.255749200
461744	0.4942073924	1.126510491	0.0336003118	1.844483578	-0.086891296
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462106	-1.3168263500	-1.840255735	0.0584633976	-0.152458180	0.936541341
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437889	0.7448792153	-1.065040338	1.9344474767	-0.986032136	-1.155738419
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442604	0.5759041402	1.259644832	0.7336024195	0.176860496	-0.457457189
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435967	0.5574261267	0.451758204	0.8419737533	-0.136461124	-0.068570904
610246	0.4772317827	0.025883972	0.6260526474	0.158243105	-1.176518082
479327	-1.2847298385	-0.651348330	-0.3763167431	-1.601590210	-1.031476651

468300	-1.0955426349	-1.080619899	-1.4933011812	1.841032010	2.607527676
612660	-0.5997936305	-1.456693532	0.9601244872	0.151657456	-0.769357056
466691	-2.9162558074	0.503254607	-0.3100435873	-0.337622978	0.781047587
468515	-1.2146260196	-1.363240059	0.1383390460	0.866530441	-1.228240956
614521	0.3376280915	0.645798721	-0.7873538774	1.986131237	0.817546375
465921	-1.5539652772	-0.874154054	1.7479990258	-1.015545808	0.087135313
604555	-1.6636916169	1.747022421	0.1351239140	1.812083849	-0.431914986
616276	2.3816615763	-1.193622332	0.5874754470	0.516887953	1.386927249
463356	1.7119302614	2.107335996	1.6857288066	2.724112706	1.045697636
450184	1.1703363038	0.254884376	0.0591151323	0.610496140	0.451423702
466393	-0.2880591739	-1.382723343	0.6171224107	1.186157886	-0.186006347
471786	-0.3387179780	-0.608223618	-0.1990667366	1.508808435	0.456511214
602289	-0.5334228858	-1.465264591	-1.4973446085	0.743024066	-0.881451327
445120	-2.4519329040	1.253169790	-1.4826618988	-0.075777212	-1.226179160
449260	0.8516665646	-1.535377401	-1.3318572958	1.873399218	-0.782981571
472724	0.9782028154	-0.388496615	1.1612989827	-0.621856437	1.596086898
475173	-1.5924053226	-0.558102190	-1.3338851016	-0.770551419	0.535054026
443854	-1.2753416614	-1.253359851	-0.7316063440	-0.053677147	1.470168573
461418	-0.2868773276	0.458404698	-1.8914697191	-1.130246096	-0.559959092
616164	1.2400775384	2.667099677	-0.5431232147	1.839424800	0.016782912
620962	-2.0134728640	-0.964450326	0.6503882037	0.965955861	2.673972234
465201	-3.0845247839	0.334342712	-0.0812534789	0.939308808	-0.982774968
470488	0.7673156529	-0.190206457	0.1035395923	1.296709028	0.006564806
462250	-2.5943834945	0.802267616	-0.8657880562	1.993668399	0.734853271
436408	2.9437458090	0.998543930	1.3057148473	1.511636771	0.487386776
464230	2.2783166290	-0.031224730	-1.1064656225	-1.080054585	0.652313493
478609	-1.8451705355	1.753314732	-0.5865333280	-0.614833049	1.157617323
437156	2.0300978964	-0.941830152	-0.0513118829	-1.568525112	-0.651308444
432218	1.7917538272	0.301437125	2.6639719805	-0.953729021	-1.501114681
620493	1.2635412164	-2.263847049	0.2458574629	0.467636802	0.377133054
475391	-0.1990440268	-0.356712865	-1.7765076646	0.245061176	0.606219286
440720	0.0584581577	1.098157666	0.1384450728	-0.321622871	0.669138548
606942	-0.7409711454	-0.409501027	-2.1548173669	-1.317860684	0.176256556
446971	-0.3554136832	-0.231008513	0.2998657334	-0.729386311	-0.667400312
470538	-2.0554061517	0.884515068	-0.5481359805	-1.307429932	0.498012778
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451470	-1.0852674375	2.555132295	-0.6956502950	0.710374150	0.569743764
438529	-0.6788251770	-1.363231357	-0.8141090746	0.829213537	0.371134118
469742	0.2625041710	1.283371335	0.4045190080	-0.388462050	-0.253939136
435534	0.5243723550	-0.624844052	-0.1788055315	-1.369122181	1.363064631
442239	0.4802003985	2.309997026	1.5206760254	0.386696880	0.109851126
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453719	0.1785416427	0.409072445	-0.3921014679	0.164143459	0.366448276
475524	0.5896324231	0.299289279	0.5344261698	-0.078558704	-0.784706631
617804	0.9813010667	-1.524352946	1.5346128278	0.796067531	0.082044045
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608929	-0.2037123033	0.513466263	-0.9610008115	-1.637316343	-2.247130134
469875	-1.2407342586	-0.513531820	0.3135559171	0.400105603	-0.474139819
443342	1.1269626163	0.909889025	-1.4045479300	0.412455113	0.651215803
456363	0.6476223228	1.122477843	0.4181567449	-0.139186263	-0.866948613
470826	3.6221497798	0.642794813	-0.7271125007	-0.265644441	1.287319018
458582	-1.6900183581	0.510950099	-0.6644747191	-0.504056182	-0.610502134
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435632	-3.2874497800	-0.153037611	1.5615876151	-0.203031668	-0.601947869
442206	-1.7603427166	0.071388512	0.6259484720	-0.907558560	-1.160591570
468303	0.2191997181	-1.363396221	0.5215788346	2.311367465	1.139230768
467762	-0.5383384452	0.323205317	-1.1081828911	0.382805487	-0.488512676
447188	0.2437925999	-2.271689050	-0.6086384963	-0.322039895	0.882254739
469438	-1.1120474968	2.010577209	2.3953389462	-0.317041816	1.421335535
462519	-0.3025191016	1.036151630	-0.9255437823	-1.183050321	0.699709189
432534	-0.6932185985	-0.725694061	0.2158233545	0.728791188	-1.302529253
436467	1.1528939671	-1.361489068	2.2528975767	-0.644151722	0.221468236
465674	0.5704033157	-1.204615967	-1.9024510099	-0.437682078	0.039070746
442389	0.1075665613	-1.209391236	-1.3763977633	-2.042251234	0.610564172
471614	0.8172611481	0.600953835	-0.5983139881	-1.089510463	-1.140814269
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473705	-0.9700750256	2.683633100	0.4303699665	-0.836345534	-0.388628473
469363	0.1617898958	-2.254603692	-2.1074975260	-0.645666638	-1.588719385
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477947	-1.2417285332	2.000963755	0.2634239411	0.637169447	0.001812386
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612986	-0.3938264880	-0.589671173	-0.0097524076	0.021226713	-0.892865489
615730	2.0323360861	1.271122745	0.7533698691	0.049470892	0.526271244
478640	1.5643227551	-0.967153603	-0.2442012923	0.149398168	0.393688451
470510	-0.2266513172	-0.310130870	-0.9331756057	1.832298846	0.106556114
439360	0.5360026412	1.349771970	0.0418745495	1.003262720	0.036489491
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605743	-1.1680544974	2.623749708	-0.0978235463	-0.052724790	0.467622032
472814	0.1450275685	-1.921834018	-0.5653783098	0.131553233	-0.035056877
464362	-2.2516525692	0.947277766	-0.0648019035	0.293249746	-0.846963287
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473349	-2.9094870012	-0.059006198	-1.4624094220	-2.279923382	-1.019197877
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448294	0.3884771673	0.452854557	1.9615572880	0.650024483	-0.673730343
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609226	0.1713422377	-0.592786063	-2.0798413778	-2.503600154	-1.103765814
452942	0.0239151602	1.411151118	-1.4239375583	-0.156422510	-0.449907395
609390	1.1986763266	0.420495800	0.0153416665	-0.404553752	-1.190540509
446608	3.1622330749	1.162892071	0.5920193399	0.557138853	0.183350349
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459298	0.9997085116	0.448335989	3.2410450687	0.268865797	1.019855096
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474860	1.5286064618	1.404510091	0.4369222957	-0.455020631	-0.183418308
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454191	0.8734109809	-1.301380808	-1.5604717718	1.041615088	-1.311599164
468454	0.4633355475	0.266604628	-0.3533427101	-0.776053381	0.297087257
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448190	-0.7119371469	0.257743384	-1.3586061256	-0.211029794	-0.286920801
453713	-0.8977755833	-1.221793025	-0.9317829996	0.715292533	0.546478730
440153	1.5144653412	-0.933539908	0.8313494580	-2.343056044	0.559117030
619570	0.5295384292	0.030291964	-0.6849114465	-2.600148266	0.139527511
478947	0.9093638724	0.419845487	0.0333735207	1.462614829	1.428718739

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477644	-0.5046410131	1.639978179	-2.0963012406	-0.308140926	1.634844138
433696	-1.6391541011	-0.791538621	-0.4983450432	-0.659499693	-0.520774522
443567	-0.8740982657	-1.083278818	0.4683650386	0.524474694	-1.550464627
430665	-2.4239163413	0.967646725	-1.2790743204	-0.086267854	0.413238296
431289	0.4559198471	-1.775850202	-0.9303258544	1.513501392	-1.787605944
608177	2.1303860192	-1.254612289	-1.0863002181	-2.007891339	2.553315289
442797	0.0434133007	-0.869464616	-1.5606043661	0.166897158	1.172186856
441714	1.5302530981	2.991113630	0.5621995972	0.658501698	-0.631576267
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	Comp.6	Comp.7	Comp.8		
466132	1.7486712205	-0.5665157831	-1.808871422		
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430632	-0.5365315657	1.9798621455	-0.043414229		
608117	-1.7835711803	-1.9084286987	-0.762998060		
610706	0.8291872644	1.0963767704	0.566805328		
478456	-0.2340528925	-0.5959648573	-1.342663244		
441716	-0.7499510913	1.1802517564	0.867830856		
603195	-0.8062390148	1.1898861248	1.328370229		
601734	-0.0663841724	0.2873025273	0.490270533		
600983	1.2500557212	-1.2724649928	-0.163388703		
462283	0.6035323449	-1.2469688625	-0.262876470		
615561	-0.3291239649	0.6313411645	0.191155588		
432220	0.5714174701	-0.5087868582	-0.619588801		
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476685	-0.5516759064	-1.2345988941	-1.986403020		
458733	-0.9419411559	-0.1300355061	-0.293721989		
619884	0.5708698046	1.5031588663	0.940558326		
470610	0.5405258485	0.4381567619	-0.868010083		
472135	2.5595780175	-0.2436285071	0.618423518		
477670	-1.6926873478	1.4205863612	0.834793222		
618845	-0.2229545187	-0.8011251184	1.507766797		
442479	-0.0156024780	0.5323291892	-0.516520152		
443920	-1.5792013120	-1.5320078024	-0.313701590		
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609837	-2.6105432986	-0.2413012231	1.398972368		
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473328	-0.2366125086	0.3588705049	1.981400446		
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614780	0.3693708667	1.8762085893	-0.143227354
472248	-1.4148216260	0.8233675590	1.000706492
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456446	-0.9034857968	-0.5911670988	-0.181360911
470577	1.4301033190	-2.5003321676	-0.842068640
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472573	-0.7154486791	0.2847601813	2.125314120
433473	-1.9786969129	-1.7251179474	0.868971855
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472895	-0.1949193561	0.1088709816	2.047282603



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603848	0.3619170619	0.8983607974	0.804234665
617739	-0.6619234042	1.5579108203	-0.041119076
607133	-1.7823250588	0.2755406886	0.187698066
437470	0.5804294164	0.3733964140	0.657852650
461372	0.5384131636	0.5447836833	0.965025159
476130	0.2653391765	0.7952292773	-0.703114138
452438	0.1970076808	0.2760882133	1.345997520
460517	0.9539287243	0.7143940917	-0.086603763
444896	0.3087802840	1.1162448211	-1.477092907
448722	-0.8211692633	0.2425990787	-1.318841174
477856	-0.6170765158	-2.0043354908	-0.533533409
617721	-0.3525870757	-0.0221673141	1.612214829
454176	0.7716349026	0.9879810518	0.057082674
618127	-0.3515463241	-1.3664172596	-0.011417884
441923	1.7046031170	-0.5390989632	-1.231485422
604279	0.8976042585	0.6861415542	1.655159412
440833	0.2448159471	-0.1624494988	0.035335997
451550	-1.3044665110	-1.6569053722	-0.412444131
431853	-0.4937052702	0.5613067038	-1.471208190
614274	1.6188391567	-0.2878741473	-0.503620019
619148	-0.7593424909	-0.8163520208	-2.064447019
456781	0.4206217409	-0.8266810256	-0.631393644
434293	0.6567158137	0.0835985012	-0.299990758
460895	0.7049476932	0.8268633986	-0.257177598
601600	0.6105061033	-0.4321805345	0.302338669
465440	-0.7586323506	-1.9517402367	-0.709850076
455482	-2.4155397871	-0.6381309541	-1.583664445
438877	-1.4545143085	-0.1280029086	0.866329644
479824	0.0706766075	0.4437213498	-0.239471249
477415	0.9341268054	0.0166849535	-0.667019152
614372	1.3468496454	1.0633482400	0.616887720
465248	-0.2871291523	-0.3314434774	0.431280404
449421	1.8204779576	-0.5634308368	0.880809709
445856	-0.4703991099	-0.2657603581	0.740002449
608525	-0.1731402761	0.4860050454	1.286870168
608813	-0.9784957744	-1.1443337203	0.708940933
459295	1.0240388241	0.5540422727	-0.878600970

606144	0.0241743609	-0.5521740322	-0.337095232
476315	1.8828915178	-0.0919293652	0.271219225
475891	-0.0695571173	0.0425398418	-0.606712078
462525	1.4119727859	-0.0741525289	-1.584219295
606283	0.2155056258	0.5232614693	-1.179533232
465252	0.7206133569	0.2898278310	1.414691194
449979	1.9145196334	-0.2653828257	0.619914535
604681	-0.0561750299	0.4274562306	-1.490542863
466390	-1.0225247945	2.0934319639	-2.462799447
612316	0.3491201498	0.0233711972	-0.386445230
474731	-0.9004310872	0.4709935697	-0.534860558
603260	-0.3120587109	-0.7218278141	-0.764934543
434370	1.0813016574	-0.3075658295	0.801440596
478388	-0.5440168222	-1.1883300421	-0.494657439
617883	-0.0365035393	0.0874531442	0.870748151
464808	-0.7371548931	0.9558738154	-0.086589009
609458	-1.7216226963	-0.5988275621	1.498471979
432405	1.5428846365	0.7183139789	1.198576900
457875	0.1038331033	1.7283046617	0.306662078
477268	-1.2792809740	0.1652689674	1.113196344
437580	-0.5534210996	-0.9135128558	-0.313297310
457121	-0.3669993431	0.1960873025	-0.327365456
436364	-1.3349191829	1.5324215919	0.298297507
467654	-0.1465942146	-1.9587626911	-0.573350156
468202	-0.4880258783	1.2722517829	-2.045328607
456959	1.2327221839	0.9428991077	1.085944022
447274	-1.5697623195	-0.8922629501	0.211924675
608405	-0.5566911045	-0.4517588373	-0.196506196
472253	2.4126824337	2.0611521225	0.502328980
438923	0.4028188453	0.5756741933	-0.604726216
607131	-2.0491070250	-0.8727054005	0.185223478
601701	-0.2632247208	0.5788895682	1.502303414
469220	-1.3186784106	1.1251944822	-1.527765737
433250	0.0586600128	-0.6435378829	-1.557077517
444413	-0.3766936155	-2.0735496627	-0.980819097
433593	-1.3832124842	0.1795804949	-1.058135826
458143	0.7036919421	-2.0938244953	-0.088131034
474167	-0.4789919408	-0.4170278591	-0.558295577
476413	-1.1944336011	1.1930617602	0.633620717
600208	1.2509163435	-0.0836393792	-0.418818932
618926	1.0489309056	1.9519032703	-0.389653255
606219	-0.8568681174	0.1976147311	-0.103091572
448436	0.3114044746	0.5039245470	-0.956147024

447976	-1.6055728562	-0.5207718490	0.538524349
472236	0.5211605968	0.7318891943	-0.277417911
468232	-0.4126441996	-1.6769355610	0.828019277
620819	-1.6451540612	-2.0753754825	1.488730999
452349	0.6549175512	-0.2675539694	0.165175594
464646	1.0460432848	0.4127904500	0.783623609
472209	-1.8539509628	0.5857727589	-1.061329249
459955	-0.9782286211	2.1948353108	0.624111878
473389	-0.3801870852	0.1178240410	-0.698253178
616767	0.7866642030	0.9927598434	-0.546526137
442948	-1.6442815218	-1.2783900032	-1.185961341
458936	1.0248514186	0.5061780398	1.446899364
613921	-0.6577304242	-0.5479351022	0.568468590
474598	-0.5936585432	0.6109554024	0.772588381
440865	0.2273846204	-1.0707532600	-0.447899150
450947	0.6538113518	1.2252994050	-2.059048406
473370	-0.0127740890	1.3412583795	-0.996660551
463153	-0.6063750415	0.3118218022	1.345078189
612546	0.8535499242	0.6461456179	-1.129345800
442919	1.5699119351	0.3593281757	0.158278536
449352	-0.3705265464	1.9028867571	-1.447590285
470104	-0.9521099700	0.7078758741	-0.634497827
459889	0.3681494906	0.8958967049	-0.543407031
478868	-1.3276222935	-0.3536730817	1.470225842
463307	-0.5143465551	0.0084878413	0.196240698
453620	-1.1795241425	-0.5759947186	1.359010658
466238	1.4634030668	0.9906417229	0.188283458
607697	0.5231216225	0.5369995720	0.809883266
477631	1.0767351205	-2.0480678285	-0.262885267
443625	-1.1935710894	-0.2903857576	-0.411823978
472223	-1.3180561578	0.6425428520	-0.223903638
608328	-0.4147595547	-0.7020461596	-0.517591102
474860	-0.4337709093	-0.0864020220	0.534773788
606858	0.6255772008	-0.5408638609	0.787970111
477938	0.1276684516	-0.7540378863	0.047970957
462698	0.2984178092	0.3548509174	-0.887863341
454552	-2.0464726400	-0.5555824982	-1.436335728
471585	-0.0599078006	-1.5045849995	-1.210795504
455426	-0.5579131026	-1.7168954918	0.401845846
469856	0.5485875932	0.7126877562	0.104435517
454191	0.6666177250	0.0647453286	-0.608148549
468454	0.7165424375	-0.4219326635	2.018802833
614187	0.3308131890	0.4400850087	-2.557334497

```

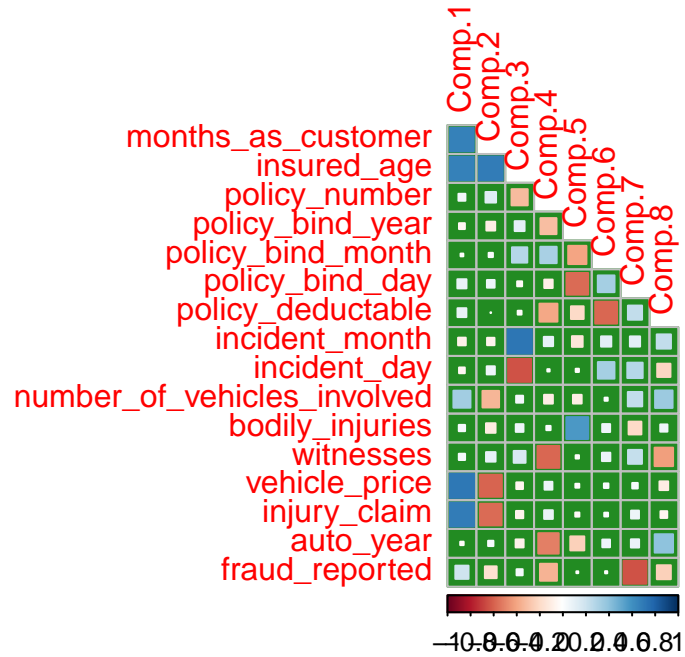
433974 -0.7930242439 -0.4756260752 0.568255332
604833 1.0283529060 1.2981825425 -0.925420415
447469 -0.9449360994 0.8043948526 -0.138676856
451529 -1.3378453986 -0.2528938561 0.428516400
431202 1.6649025009 -0.3177104785 -0.007451705
448190 0.9736415203 -0.6039095345 1.937177495
453713 -0.7021272979 0.5447653009 -0.949607561
440153 2.4822351430 -1.5735806096 -0.400120889
619570 -0.4010505714 0.5006023722 -0.553185606
478947 -0.0493936614 -0.0783647362 0.461589963
443550 0.4040414188 1.6275507213 1.126114176
477644 0.0111335493 0.3004908477 0.494224260
433696 1.6512563426 0.4711325730 -0.447956435
443567 0.2449842541 1.6702433438 0.606889487
430665 0.7397578264 -0.5272900590 -0.376408144
431289 -0.3368119381 0.5272619254 0.143641659
608177 1.0444403762 1.2365761142 -0.320415534
442797 0.9217805892 0.1773755418 0.166422346
441714 0.7520693634 1.4105076780 -1.022164528
612260 0.2926545948 1.4140456808 -1.018551343

```

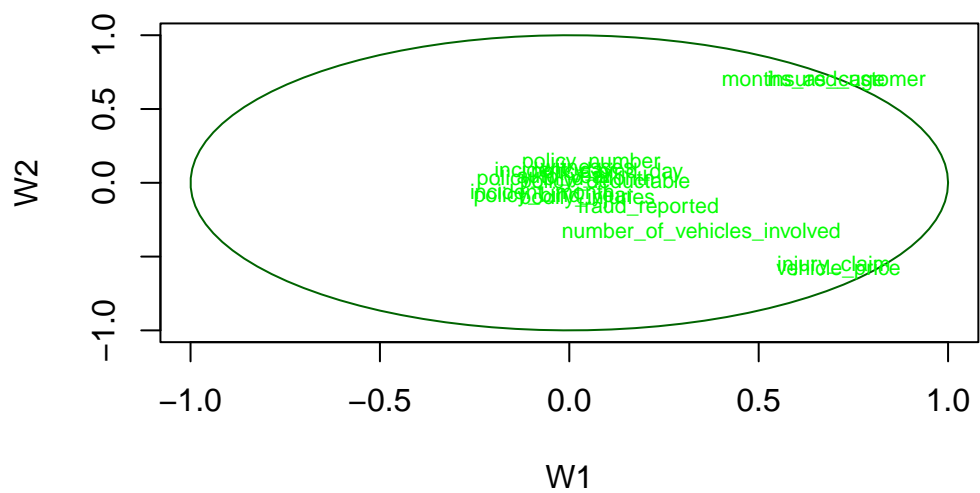
```

# Matrice de corelatie
#intre variabilele initiale si cele 8 componente
matrice_corel_comp_principale<-cor(date_standardizate1, scoruri_principale)
View(matrice_corel_comp_principale)
corrplot(matrice_corel_comp_principale,method="square",
type="lower",bg="forestgreen")

```



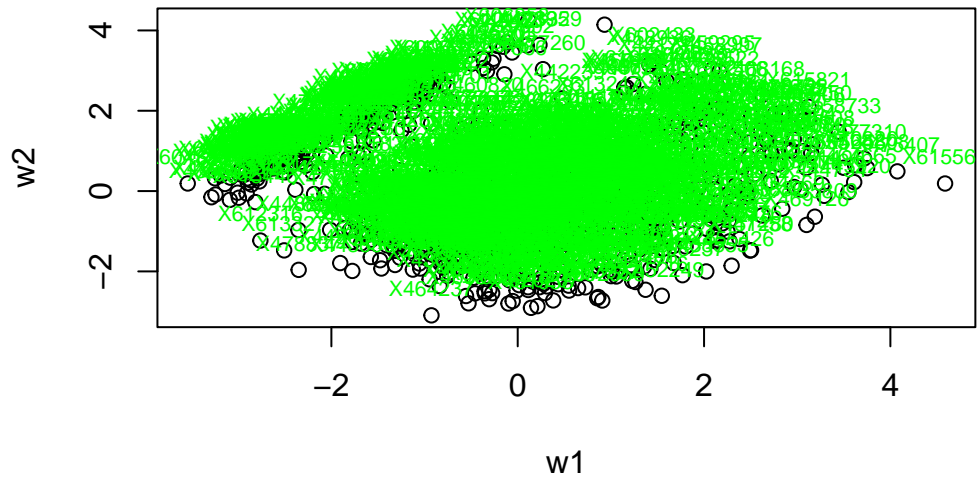
```
# Cercul corelatiilor
cerc<-seq(0,2*pi,length=100)
plot(cos(cerc),sin(cerc),type="l",col="darkgreen",xlab="W1",ylab="W2")
text(matrice_corel_comp_principale[,1],matrice_corel_comp_principale[,2],rownames(matrice_
```



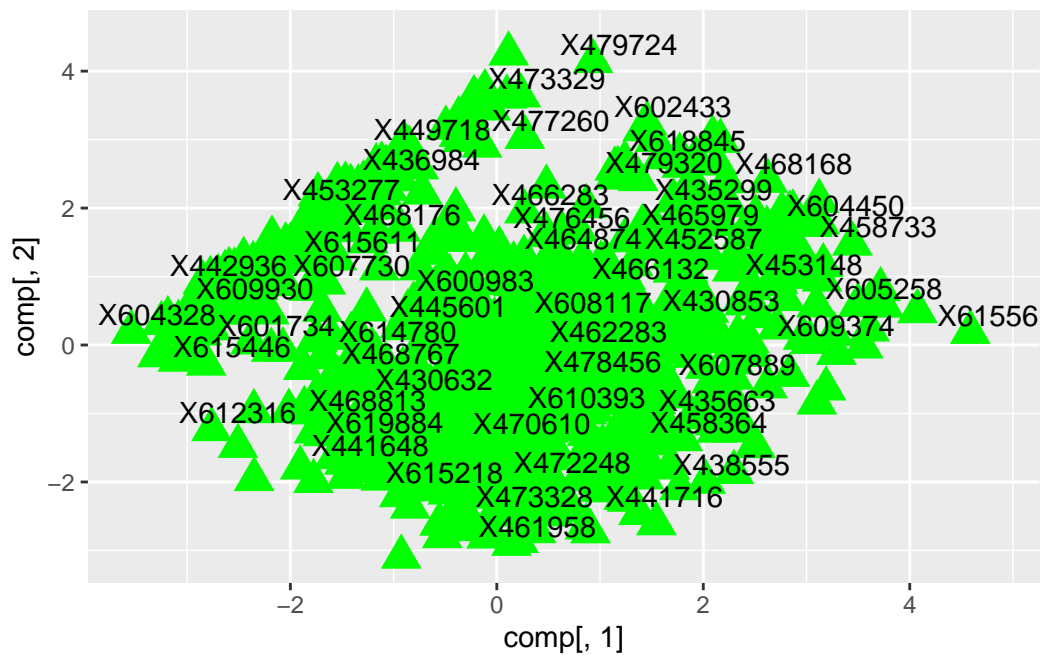
```
# Plot componente
comp<-data.frame(scoruri_principale)
plot(comp[,1],comp[,2],main="Plot componente",xlab="w1",ylab="w2")
text(comp[,1],comp[,2],labels=rownames(comp),col="green",cex = 0.7,pos=3)
```



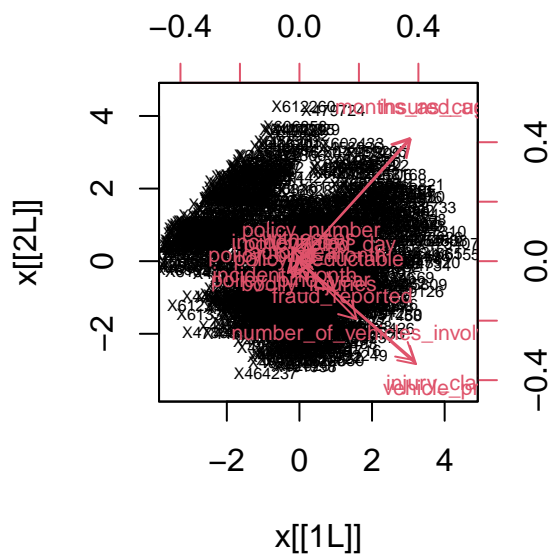
## Plot componente

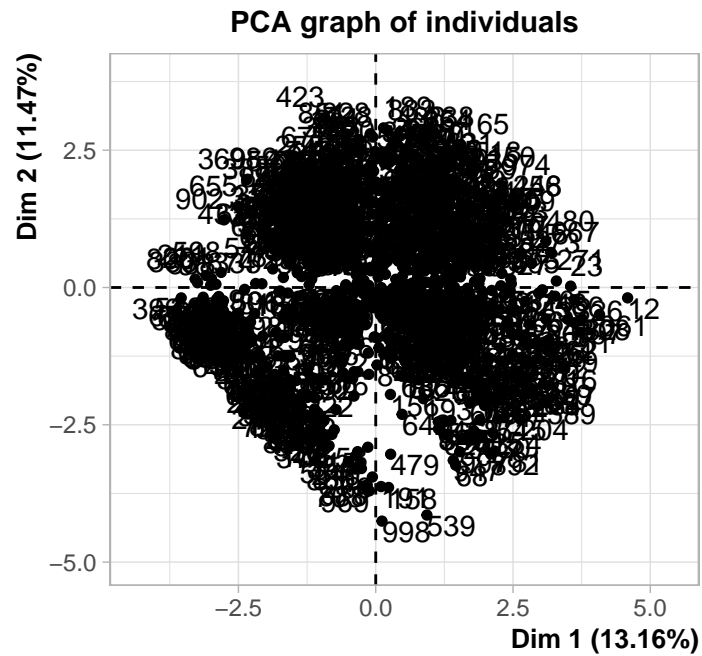


```
# GGPlot componente
ggplot(comp, aes(x=comp[,1], y=comp[,2])) +
  geom_point(shape=17, size=5, col="green") +
  geom_text(
    label=rownames(comp),
    nudge_x = 0.25, nudge_y = 0.25,
    check_overlap = T,
  )
```

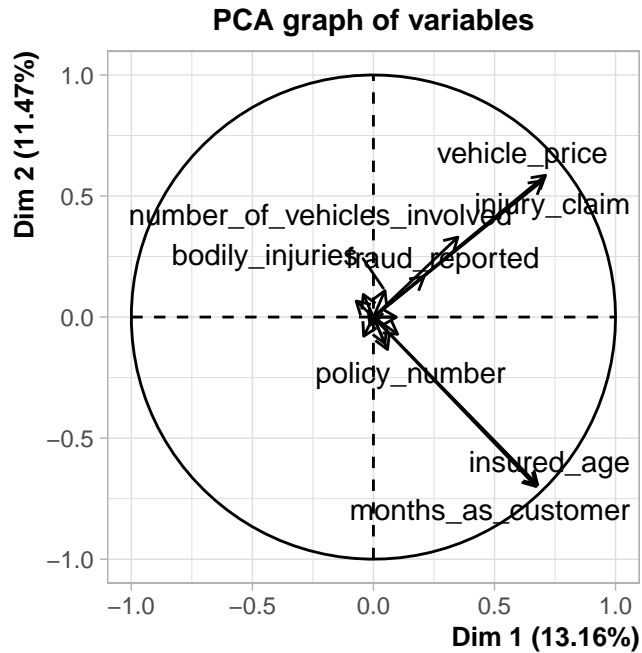


```
# Biplot
biplot(comp[,1:2],comp_principale$loadings[,1:2],cex = c(0.5,0.7))
```





Warning: ggrepel: 8 unlabeled data points (too many overlaps). Consider increasing max.overlaps



```
summary(funcția_PCA)
```

Call:

```
PCA(X = date_standardizate1)
```

Eigenvalues

	Dim.1	Dim.2	Dim.3	Dim.4	Dim.5	Dim.6	Dim.7
Variance	2.106	1.835	1.179	1.131	1.087	1.069	1.030
% of var.	13.163	11.467	7.368	7.070	6.791	6.680	6.434
Cumulative % of var.	13.163	24.630	31.998	39.068	45.859	52.540	58.974
	Dim.8	Dim.9	Dim.10	Dim.11	Dim.12	Dim.13	Dim.14
Variance	1.013	0.976	0.942	0.906	0.863	0.821	0.778
% of var.	6.331	6.097	5.885	5.661	5.392	5.131	4.861
Cumulative % of var.	65.305	71.402	77.287	82.948	88.340	93.471	98.332
	Dim.15	Dim.16					
Variance	0.189	0.078					
% of var.	1.183	0.485					
Cumulative % of var.	99.515	100.000					

Individuals (the 10 first)

	Dist	Dim.1	ctr	cos2	Dim.2	ctr
1	3.576	1.242	0.073	0.121	-0.866	0.041
2	4.301	-1.167	0.065	0.074	-1.650	0.149
3	3.561	-0.859	0.035	0.058	0.756	0.031
4	3.898	0.683	0.022	0.031	-0.378	0.008
5	3.699	-1.674	0.133	0.205	-1.749	0.167
6	3.769	0.776	0.029	0.042	0.483	0.013
7	4.367	1.372	0.090	0.099	2.457	0.330
8	3.957	-0.021	0.000	0.000	0.653	0.023
9	3.958	-2.387	0.271	0.364	-0.034	0.000
10	3.444	-0.458	0.010	0.018	-0.698	0.027
	cos2	Dim.3	ctr	cos2		
1	0.059	-0.615	0.032	0.030		
2	0.147	-0.917	0.071	0.045		
3	0.045	0.398	0.013	0.012		
4	0.009	-0.236	0.005	0.004		
5	0.224	0.829	0.058	0.050		
6	0.016	1.255	0.134	0.111		
7	0.317	-0.990	0.083	0.051		
8	0.027	-0.489	0.020	0.015		
9	0.000	-2.186	0.406	0.305		
10	0.041	0.237	0.005	0.005		

Variables (the 10 first)

	Dim.1	ctr	cos2	Dim.2	ctr	cos2
months_as_customer	0.672	21.439	0.452	-0.700	26.692	0.490
insured_age	0.678	21.845	0.460	-0.693	26.169	0.480
policy_number	0.058	0.161	0.003	-0.134	0.978	0.018
policy_bind_year	-0.042	0.083	0.002	0.094	0.477	0.009
policy_bind_month	-0.009	0.004	0.000	-0.022	0.026	0.000
policy_bind_day	0.100	0.474	0.010	-0.071	0.274	0.005
policy_deductable	0.095	0.428	0.009	0.000	0.000	0.000
incident_month	-0.071	0.240	0.005	0.066	0.239	0.004
incident_day	-0.040	0.076	0.002	-0.079	0.341	0.006
number_of_vehicles_involved	0.349	5.772	0.122	0.330	5.943	0.109
	Dim.3	ctr	cos2			
months_as_customer	0.070	0.421	0.005			
insured_age	0.072	0.437	0.005			
policy_number	-0.314	8.390	0.099			
policy_bind_year	0.117	1.171	0.014			
policy_bind_month	0.281	6.717	0.079			
policy_bind_day	-0.029	0.074	0.001			
policy_deductable	-0.018	0.027	0.000			

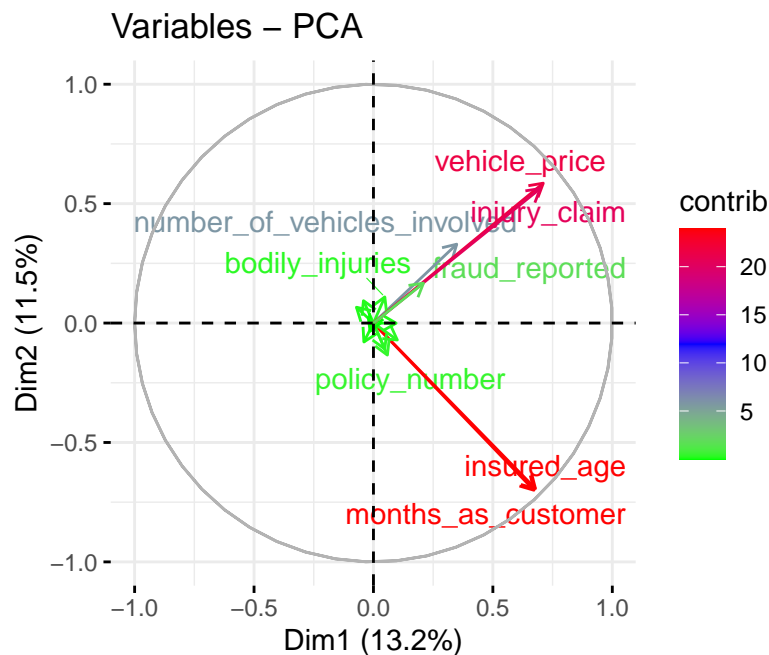
```
incident_month          0.721 44.036 0.519 |
incident_day            -0.636 34.328 0.405 |
number_of_vehicles_involved 0.058 0.288 0.003 |
```

```
# Factoextra
#install.packages("factoextra")
library(factoextra)
```

Welcome! Want to learn more? See two factoextra-related books at <https://goo.gl/ve3WBa>

```
fviz_pca_var(funcitia_PCA,col.var = "contrib",gradient.cols = c("green", "blue", "red")
,repel = TRUE)
```

Warning: ggrepel: 8 unlabeled data points (too many overlaps). Consider increasing max.overlaps



```
fviz_pca_ind(funcitia_PCA,col.ind = "cos2", gradient.cols = c("green", "blue", "red"),repel
```

Warning: ggrepel: 988 unlabeled data points (too many overlaps). Consider increasing max.overlaps

