

# finalalex

```
knitr::opts_chunk$set(echo = TRUE)
library(ISLR)
library(MASS)
```

## Question 1

Loading data

```
train = read.table("spam-train.txt",header=FALSE, sep=",")
head(train)
```

```
##      V1 V2  V3  V4  V5  V6 V7  V8  V9  V10 V11  V12  V13  V14 V15  V16 V17
## 1 0.00  0 0.00 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.0
## 2 0.00  0 0.59 0.11 0.00 0.00  0 0.00 0.11 0.23  0 0.11 0.00 0.00  0 0.11 0.0
## 3 0.06  0 0.40 0.00 0.13 0.13  0 0.13 0.00 0.00  0 1.40 0.20 0.06  0 0.00 0.2
## 4 0.00  0 0.00 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.00 0.00  0 0.00 0.0
## 5 0.00  0 0.00 0.00 0.00 0.44  0 0.00 0.00 0.00  0 0.44 0.44 0.00  0 0.00 0.0
## 6 0.00  0 0.53 0.00 0.00 0.53  0 0.00 0.00 0.53  0 0.00 0.53 0.00  0 0.00 0.0
##      V18 V19 V20  V21 V22 V23 V24  V25  V26  V27  V28 V29 V30 V31 V32  V33  V34
## 1  0 2.35  0 0.00  0  0  0 1.17 0.00 1.17 2.35  0  0  0  0 1.17 0.00
## 2  0 0.95  0 0.47  0  0  0 0.23 0.00 0.71 0.00  0  0  0  0 0.00 0.11
## 3  0 0.06  0 0.00  0  0  0 2.54 0.00 0.00 0.00  0  0  0  0 0.00 0.00
## 4  0 0.00  0 0.00  0  0  0 2.56 2.56 2.56 0.00  0  0  0  0 0.00 0.00
## 5  0 1.32  0 0.00  0  0  0 0.00 0.00 0.88 0.00  0  0  0  0 0.00 0.00
## 6  0 2.15  0 0.53  0  0  0 0.00 0.00 0.00 0.00  0  0  0  0 0.00 0.00
##      V35 V36 V37 V38 V39 V40 V41 V42 V43 V44  V45  V46 V47 V48  V49  V50
## 1 1.17 0.00 0.00  0  0  0  0  0  0  0 0.00 0.00  0  0 0.000 0.610
## 2 0.00 0.47 0.00  0  0  0  0  0  0  0 0.00 0.00  0  0 0.227 0.322
## 3 0.00 0.06 0.06  0  0  0  0  0  0  0 0.06 0.00  0  0 0.028 0.085
## 4 0.00 0.00 0.00  0  0  0  0  0  0  0 2.56 0.00  0  0 0.000 0.000
## 5 0.00 0.00 0.00  0  0  0  0  0  0  0 0.44 0.44  0  0 0.000 0.150
## 6 0.00 0.00 0.00  0  0  0  0  0  0  0 1.07 0.00  0  0 0.000 0.101
##      V51  V52  V53 V54  V55 V56 V57 V58
## 1 0.000 0.203 0.000  0 2.541 15 61  0
## 2 0.113 0.056 0.075  0 2.546 38 601  0
## 3 0.000 0.000 0.000  0 2.341 22 665  0
## 4 0.000 0.000 0.000  0 1.500  4 24  0
## 5 0.000 0.000 0.000  0 1.613 11 71  0
## 6 0.000 0.000 0.000  0 1.857 16 52  0
```

```
test = read.table("spam-test.txt",header=FALSE, sep=",")
head(test)
```

```
##      V1  V2  V3 V4  V5  V6  V7  V8  V9  V10  V11  V12  V13 V14  V15  V16
```

```

## 1 0.12 0.12 0.24 0 1.34 0.12 0.00 0.12 0.00 0.00 0.36 0.85 0.00 0.0 0.00 0.24
## 2 0.00 0.00 0.32 0 0.64 0.64 0.64 0.32 0.32 0.00 0.00 0.32 0.32 0.0 0.00 0.32
## 3 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.00 0.00
## 4 0.00 0.00 0.40 0 0.40 0.20 0.00 0.00 0.00 1.01 0.20 0.40 0.00 0.0 0.00 0.20
## 5 0.51 0.43 0.29 0 0.14 0.03 0.00 0.18 0.54 0.62 0.29 0.65 0.65 1.2 0.03 0.21
## 6 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.23 0.00 0.0 0.00 0.00
##      V17  V18  V19  V20  V21  V22  V23  V24  V25  V26  V27  V28  V29  V30  V31  V32  V33
## 1 0.24 0.00 2.33 0 0.73 0 0.00 0.00 0.00 0.00 0 0 0 0 0 0 0
## 2 0.32 0.32 2.25 0 3.21 0 0.00 0.32 0.00 0.00 0 0 0 0 0 0 0
## 3 0.00 0.00 0.00 0 0.00 0 0.00 0.00 2.12 6.38 0 0 0 0 0 0 0
## 4 0.40 0.20 0.80 0 0.40 0 0.20 0.00 0.00 0.00 0 0 0 0 0 0 0
## 5 0.43 0.03 3.03 0 1.35 0 0.51 0.54 0.00 0.00 0 0 0 0 0 0 0
## 6 0.00 0.00 1.85 0 0.61 0 0.00 0.61 0.00 0.00 0 0 0 0 0 0 0
##      V34  V35  V36  V37  V38  V39  V40  V41  V42  V43  V44  V45  V46  V47  V48  V49  V50
## 1 0 0 0.98 0.00 0 0 0.12 0 0.00 0 0 0.12 0.00 0 0 0.061 0.020
## 2 0 0 0.00 0.00 0 0 0.00 0 0.00 0 0 0.64 0.00 0 0 0.000 0.156
## 3 0 0 0.00 2.12 0 0 0.00 0 0.00 0 0 0.00 0.00 0 0 0.000 0.000
## 4 0 0 0.00 0.00 0 0 0.20 0 0.00 0 0 0.00 0.00 0 0 0.000 0.030
## 5 0 0 0.00 0.00 0 0 0.00 0 0.00 0 0 0.03 0.00 0 0 0.012 0.078
## 6 0 0 0.00 0.61 0 0 0.00 0 1.23 0 0 1.23 1.85 0 0 0.000 0.098
##      V51  V52  V53  V54  V55  V56  V57  V58
## 1 0 0.041 0.041 0.000 2.351 69 254 1
## 2 0 0.000 0.156 0.000 1.752 19 149 1
## 3 0 0.000 0.000 0.000 1.666 6 30 0
## 4 0 0.000 0.302 0.000 1.727 11 190 1
## 5 0 0.443 0.510 0.133 6.590 739 2333 1
## 6 0 0.098 0.000 0.000 1.627 15 70 0

```

## Standardizing

Standardizing Train Data

```

train_Standardized = data.frame(scale(train))
train_Standardized$V58 = train$V58
train_Standardized

```

```

##      V1      V2      V3      V4      V5
## 1 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 2 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 3 -0.160223037 -0.167356312 0.225560888 -0.04580151 -0.282020280
## 4 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 5 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 6 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.483468390
## 7 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 8 -0.349649591 -0.167356312 0.742909994 -0.04580151 -0.483468390
## 9 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 10 -0.033938667 -0.167356312 0.822502164 -0.04580151 -0.173548221
## 11 -0.349649591 1.012314514 2.434243609 -0.04580151 0.678732243
## 12 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.042380986
## 13 -0.191794129 -0.167356312 -0.351482345 -0.04580151 -0.235532255
## 14 0.723767551 0.895128671 -0.570360813 -0.04580151 -0.483468390
## 15 -0.349649591 -0.167356312 1.379647355 0.26297240 -0.483468390

```

## 16	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 17	-0.349649591	-0.167356312	-0.570360813	-0.04580151	3.328549687
## 18	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 19	-0.349649591	0.043578207	-0.570360813	-0.04580151	-0.483468390
## 20	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 21	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 22	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 23	2.902172926	-0.167356312	-0.570360813	-0.04580151	1.112620480
## 24	-0.349649591	-0.167356312	-0.172399962	-0.04580151	-0.173548221
## 25	2.712746372	-0.167356312	-0.570360813	-0.04580151	0.260340015
## 26	-0.128651944	-0.167356312	-0.431074515	-0.04580151	-0.483468390
## 27	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 28	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.306828041
## 29	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 30	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 31	4.354443177	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 32	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 33	0.060774610	-0.167356312	-0.311686260	-0.04580151	-0.065076162
## 34	-0.349649591	-0.167356312	2.036282758	-0.04580151	-0.483468390
## 35	-0.349649591	0.098264934	0.782706079	-0.04580151	-0.483468390
## 36	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 37	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 38	-0.349649591	7.270038565	-0.570360813	-0.04580151	-0.483468390
## 39	1.955040154	-0.167356312	0.145968718	-0.04580151	0.074387914
## 40	0.187058980	-0.167356312	-0.411176473	-0.04580151	0.182859973
## 41	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 42	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 43	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 44	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 45	-0.349649591	0.059202986	0.862298249	-0.04580151	-0.034084145
## 46	-0.349649591	0.363886180	-0.570360813	-0.04580151	-0.483468390
## 47	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 48	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 49	-0.349649591	-0.167356312	0.862298249	-0.04580151	4.025870067
## 50	13.352204511	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 51	0.755338643	-0.167356312	0.126070676	-0.04580151	-0.483468390
## 52	-0.349649591	-0.167356312	1.021482589	-0.04580151	-0.483468390
## 53	-0.349649591	0.051390597	1.101074760	-0.04580151	-0.049580154
## 54	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.539268167
## 55	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 56	3.565165867	0.152951661	1.896996461	-0.04580151	-0.483468390
## 57	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 58	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 59	1.007907382	-0.167356312	2.036282758	-0.04580151	-0.483468390
## 60	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 61	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 62	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 63	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 64	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 65	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 66	-0.349649591	-0.167356312	0.106172633	-0.04580151	0.043395897
## 67	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.430796108
## 68	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 69	-0.349649591	-0.167356312	1.459239525	-0.04580151	0.306828041

## 70	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 71	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 72	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 73	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 74	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.128116488
## 75	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 76	0.218630072	-0.167356312	-0.212196047	-0.04580151	1.949404936
## 77	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 78	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 79	-0.349649591	-0.167356312	0.902094334	-0.04580151	0.663236235
## 80	-0.349649591	-0.167356312	0.921992377	-0.04580151	0.678732243
## 81	0.597483181	-0.167356312	0.026580463	-0.04580151	-0.483468390
## 82	-0.349649591	-0.167356312	2.135772971	-0.04580151	0.570260184
## 83	-0.349649591	-0.167356312	2.036282758	-0.04580151	-0.483468390
## 84	-0.349649591	-0.050170468	-0.570360813	-0.04580151	-0.251028263
## 85	-0.349649591	0.434197686	0.961788462	-0.04580151	0.709724260
## 86	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 87	-0.349649591	7.270038565	-0.570360813	-0.04580151	-0.483468390
## 88	0.881623013	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 89	-0.128651944	-0.167356312	-0.271890175	-0.04580151	-0.374996331
## 90	-0.349649591	0.309199453	-0.570360813	-0.04580151	1.407044640
## 91	-0.349649591	0.895128671	1.220463015	-0.04580151	-0.483468390
## 92	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 93	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 94	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 95	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 96	1.418331583	-0.167356312	0.066376548	-0.04580151	1.267580564
## 97	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 98	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 99	0.092345703	-0.167356312	0.006682421	-0.04580151	1.329564598
## 100	-0.349649591	-0.167356312	2.294957311	-0.04580151	-0.483468390
## 101	-0.349649591	-0.018920910	0.205662846	-0.04580151	-0.483468390
## 102	2.839030742	0.090452544	0.424541314	8.54315418	-0.483468390
## 103	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 104	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 105	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 106	-0.349649591	-0.167356312	0.842400207	-0.04580151	-0.127060196
## 107	-0.033938667	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 108	-0.349649591	0.051390597	-0.570360813	-0.04580151	-0.483468390
## 109	2.112895616	-0.167356312	0.981686504	-0.04580151	1.949404936
## 110	-0.349649591	0.262325115	0.524031526	-0.04580151	1.236588547
## 111	0.755338643	0.106077324	-0.570360813	-0.04580151	-0.483468390
## 112	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 113	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 114	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 115	0.976336290	-0.167356312	0.265356973	-0.04580151	2.166349054
## 116	-0.349649591	0.457634855	-0.570360813	-0.04580151	0.446292117
## 117	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 118	0.597483181	-0.167356312	-0.570360813	-0.04580151	0.461788125
## 119	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 120	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 121	-0.349649591	-0.167356312	2.434243609	-0.04580151	-0.483468390
## 122	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 123	-0.349649591	1.707617187	-0.570360813	-0.04580151	0.756212286

```

## 124 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 125 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 126 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.049580154
## 127 -0.349649591 -0.167356312 0.842400207 -0.04580151 -0.220036246
## 128 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 129 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 130 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 131 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 132 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 133 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.466998852
## 134 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 135 -0.349649591 -0.167356312 1.319953227 -0.04580151 -0.003092128
## 136 -0.065509759 0.215450778 0.603623696 -0.04580151 0.120875939
## 137 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 138 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 139 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 140 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 141 1.323618306 -0.167356312 1.558729738 -0.04580151 0.337820058
## 142 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.554764176
## 143 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 144 -0.349649591 0.535758750 -0.570360813 -0.04580151 -0.483468390
## 145 0.092345703 -0.167356312 -0.013215622 -0.04580151 -0.344004314
## 146 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 147 -0.065509759 -0.167356312 0.145968718 -0.04580151 -0.483468390
## 148 -0.349649591 -0.167356312 -0.192298005 -0.04580151 -0.483468390
## 149 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 150 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 151 0.660625366 -0.042358078 0.543929569 -0.04580151 0.012403880
## 152 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 153 1.197333937 -0.167356312 1.399545397 -0.04580151 -0.483468390
## 154 0.187058980 -0.167356312 -0.053011707 -0.04580151 -0.359500322
## 155 3.060028388 -0.167356312 1.578627780 -0.04580151 -0.483468390
## 156 0.755338643 -0.167356312 0.126070676 -0.04580151 0.058891906
## 157 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 158 3.533594774 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 159 -0.349649591 0.043578207 0.504133484 -0.04580151 -0.065076162
## 160 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 161 0.439627719 -0.034545689 0.106172633 -0.04580151 -0.483468390
## 162 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 163 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 164 -0.349649591 -0.167356312 2.135772971 -0.04580151 -0.483468390
## 165 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 166 -0.349649591 -0.167356312 -0.411176473 -0.04580151 -0.483468390
## 167 -0.349649591 -0.167356312 2.971490757 -0.04580151 -0.483468390
## 168 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 169 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 170 -0.349649591 -0.167356312 1.359749312 -0.04580151 -0.483468390
## 171 -0.349649591 -0.034545689 -0.570360813 -0.04580151 -0.483468390
## 172 -0.349649591 0.129514492 0.185764803 -0.04580151 -0.483468390
## 173 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 174 -0.349649591 -0.065795247 0.742909994 -0.04580151 -0.483468390
## 175 0.376485534 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 176 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 177 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

## 178	-0.349649591	-0.167356312	1.160768887	0.50242971	0.864684345
## 179	-0.349649591	-0.167356312	0.165866761	-0.04580151	1.236588547
## 180	3.375739312	0.137326882	0.603623696	-0.04580151	-0.483468390
## 181	-0.349649591	-0.167356312	3.409247693	-0.04580151	-0.483468390
## 182	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.074387914
## 183	3.375739312	0.137326882	0.603623696	-0.04580151	-0.483468390
## 184	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 185	-0.349649591	0.067015376	0.921992377	-0.04580151	-0.018588137
## 186	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 187	1.386760491	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 188	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 189	-0.002367575	0.004516259	-0.351482345	-0.04580151	0.213851990
## 190	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 191	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 192	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 193	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 194	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 195	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 196	-0.349649591	0.246700336	-0.570360813	-0.04580151	1.159108505
## 197	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 198	0.850051920	-0.167356312	0.703113909	-0.04580151	-0.297516289
## 199	-0.349649591	-0.167356312	0.165866761	-0.04580151	0.089883922
## 200	0.092345703	-0.167356312	-0.291788217	-0.04580151	-0.483468390
## 201	-0.349649591	-0.167356312	-0.570360813	-0.04580151	2.677717333
## 202	-0.349649591	0.074827765	0.046478506	-0.04580151	-0.483468390
## 203	2.965315111	-0.167356312	-0.570360813	-0.04580151	1.143612497
## 204	1.039478475	-0.167356312	1.180666930	-0.04580151	0.198355982
## 205	-0.349649591	-0.034545689	-0.570360813	-0.04580151	-0.483468390
## 206	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.601252201
## 207	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 208	0.187058980	-0.167356312	-0.232094090	-0.04580151	1.871924893
## 209	-0.349649591	-0.167356312	2.673020119	-0.04580151	0.353316066
## 210	-0.349649591	0.199825999	-0.570360813	-0.04580151	0.244844007
## 211	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 212	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 213	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 214	0.187058980	-0.167356312	-0.411176473	-0.04580151	0.167363965
## 215	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 216	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 217	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 218	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 219	1.039478475	-0.167356312	-0.570360813	-0.04580151	1.577500733
## 220	-0.349649591	0.098264934	-0.570360813	-0.04580151	0.570260184
## 221	6.343421998	-0.167356312	-0.570360813	-0.04580151	0.337820058
## 222	-0.349649591	-0.167356312	0.782706079	-0.04580151	0.570260184
## 223	-0.349649591	0.332636621	0.703113909	-0.04580151	0.012403880
## 224	-0.349649591	-0.167356312	0.066376548	-0.04580151	0.523772159
## 225	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 226	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 227	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 228	-0.349649591	0.027953428	0.424541314	-0.04580151	-0.483468390
## 229	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.012403880
## 230	-0.349649591	-0.167356312	-0.351482345	-0.04580151	-0.142556204
## 231	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390

## 232	-0.349649591	-0.167356312	-0.271890175	-0.04580151	0.911172370
## 233	1.134191752	0.074827765	0.364847186	-0.04580151	-0.374996331
## 234	-0.349649591	-0.167356312	-0.371380387	-0.04580151	-0.328508306
## 235	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 236	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.080572170
## 237	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 238	-0.349649591	-0.011108520	-0.172399962	-0.04580151	-0.483468390
## 239	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 240	-0.349649591	-0.167356312	0.981686504	-0.04580151	-0.483468390
## 241	-0.191794129	-0.167356312	0.325051101	-0.04580151	-0.235532255
## 242	1.260476121	0.168576440	0.006682421	-0.04580151	-0.266524272
## 243	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 244	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 245	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 246	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 247	-0.349649591	1.090438410	5.836808881	-0.04580151	-0.483468390
## 248	-0.349649591	0.457634855	-0.570360813	-0.04580151	0.756212286
## 249	-0.349649591	-0.167356312	0.981686504	-0.04580151	1.329564598
## 250	-0.349649591	-0.167356312	1.180666930	-0.04580151	0.880180353
## 251	0.597483181	-0.167356312	-0.570360813	-0.04580151	0.461788125
## 252	1.797184692	-0.167356312	1.459239525	-0.04580151	-0.483468390
## 253	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 254	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 255	-0.349649591	-0.167356312	0.066376548	-0.04580151	-0.483468390
## 256	-0.349649591	0.152951661	-0.172399962	-0.04580151	2.104365020
## 257	0.187058980	-0.167356312	-0.411176473	-0.04580151	0.167363965
## 258	-0.349649591	0.527946361	1.698016035	-0.04580151	-0.297516289
## 259	-0.349649591	-0.167356312	-0.351482345	-0.04580151	-0.313012297
## 260	-0.033938667	-0.011108520	0.464337399	-0.04580151	-0.003092128
## 261	0.092345703	-0.167356312	0.563827611	-0.04580151	-0.049580154
## 262	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 263	2.491748725	-0.167356312	1.220463015	-0.04580151	-0.483468390
## 264	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 265	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 266	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 267	-0.128651944	-0.167356312	-0.271890175	-0.04580151	-0.374996331
## 268	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 269	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 270	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 271	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.065076162
## 272	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 273	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 274	-0.349649591	-0.167356312	0.862298249	-0.04580151	0.632244218
## 275	0.092345703	-0.057982857	0.006682421	-0.04580151	-0.483468390
## 276	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.911172370
## 277	-0.349649591	0.231075557	-0.570360813	-0.04580151	-0.483468390
## 278	0.439627719	0.027953428	-0.570360813	-0.04580151	-0.096068179
## 279	-0.128651944	-0.167356312	0.524031526	-0.04580151	0.492780142
## 280	-0.349649591	-0.167356312	-0.570360813	-0.04580151	2.879165442
## 281	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 282	2.365464356	-0.167356312	1.140870845	-0.04580151	-0.483468390
## 283	-0.349649591	0.738880879	-0.570360813	-0.04580151	-0.483468390
## 284	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 285	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390

## 286	2.302322171	0.488884413	-0.570360813	-0.04580151	-0.483468390
## 287	-0.349649591	-0.167356312	1.797506248	-0.04580151	-0.483468390
## 288	-0.349649591	0.207638388	0.384745229	-0.04580151	1.778948843
## 289	-0.349649591	0.012328649	-0.570360813	-0.04580151	-0.127060196
## 290	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 291	-0.349649591	-0.167356312	-0.570360813	-0.04580151	3.591981831
## 292	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 293	-0.065509759	-0.167356312	-0.033113665	-0.04580151	0.074387914
## 294	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 295	-0.349649591	-0.167356312	3.170471182	-0.04580151	0.973156404
## 296	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 297	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 298	-0.349649591	-0.167356312	0.265356973	-0.04580151	0.167363965
## 299	-0.349649591	-0.151731532	-0.470870600	-0.04580151	-0.452476373
## 300	-0.349649591	-0.167356312	-0.212196047	-0.04580151	2.119861029
## 301	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 302	-0.349649591	1.449808331	-0.570360813	-0.04580151	-0.483468390
## 303	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.291332032
## 304	-0.349649591	-0.167356312	6.274565817	-0.04580151	-0.483468390
## 305	0.123916795	-0.050170468	0.026580463	-0.04580151	0.678732243
## 306	-0.349649591	-0.167356312	-0.053011707	-0.04580151	0.337820058
## 307	0.692196458	-0.167356312	0.742909994	-0.04580151	-0.142556204
## 308	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 309	-0.349649591	7.270038565	-0.570360813	-0.04580151	-0.483468390
## 310	-0.349649591	-0.167356312	5.279663690	-0.04580151	-0.483468390
## 311	-0.349649591	-0.167356312	0.842400207	-0.04580151	0.616748210
## 312	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 313	0.881623013	-0.167356312	-0.570360813	-0.04580151	0.725220269
## 314	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 315	1.544615953	-0.167356312	-0.570360813	-0.04580151	1.391548632
## 316	-0.002367575	-0.167356312	-0.351482345	-0.04580151	-0.313012297
## 317	2.996886204	-0.042358078	0.225560888	-0.04580151	-0.235532255
## 318	-0.349649591	-0.167356312	4.404149819	-0.04580151	-0.483468390
## 319	0.565912089	-0.167356312	0.006682421	-0.04580151	-0.034084145
## 320	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.880180353
## 321	0.376485534	-0.167356312	-0.112705835	-0.04580151	0.585756193
## 322	-0.349649591	-0.167356312	3.289859438	-0.04580151	-0.483468390
## 323	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 324	-0.097080852	-0.104857195	0.941890419	-0.04580151	0.833692328
## 325	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 326	1.134191752	-0.167356312	1.319953227	-0.04580151	0.988652412
## 327	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 328	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 329	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 330	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 331	-0.065509759	-0.167356312	0.762808037	-0.04580151	-0.034084145
## 332	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 333	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.469028674
## 334	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 335	-0.349649591	-0.167356312	0.026580463	-0.04580151	0.461788125
## 336	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 337	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 338	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 339	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390



```

## 340 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 341 -0.349649591 0.035765817 -0.053011707 -0.04580151 0.120875939
## 342 1.670900323 -0.167356312 -0.072909750 -0.04580151 -0.483468390
## 343 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.351286244
## 344 -0.349649591 -0.167356312 0.364847186 -0.04580151 -0.483468390
## 345 -0.033938667 0.067015376 0.225560888 -0.04580151 -0.173548221
## 346 1.765613600 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 347 -0.191794129 -0.167356312 -0.470870600 -0.04580151 -0.018588137
## 348 1.955040154 0.113889713 0.882196292 -0.04580151 -0.483468390
## 349 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 350 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 351 -0.349649591 -0.026733299 -0.570360813 -0.04580151 -0.204540238
## 352 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 353 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 354 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 355 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 356 -0.349649591 1.090438410 5.836808881 -0.04580151 -0.483468390
## 357 0.692196458 -0.042358078 -0.251992132 -0.04580151 1.608492750
## 358 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 359 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 360 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.483468390
## 361 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 362 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 363 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 364 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 365 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 366 2.302322171 -0.167356312 1.101074760 -0.04580151 -0.483468390
## 367 -0.349649591 -0.167356312 -0.570360813 -0.04580151 7.264535832
## 368 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 369 -0.002367575 -0.167356312 -0.132603877 -0.04580151 -0.483468390
## 370 0.029203518 -0.167356312 0.623521739 -0.04580151 0.446292117
## 371 -0.349649591 -0.167356312 0.165866761 -0.04580151 -0.049580154
## 372 1.260476121 0.231075557 -0.570360813 -0.04580151 -0.483468390
## 373 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 374 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.297516289
## 375 1.765613600 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 376 0.502769904 -0.167356312 -0.570360813 0.30078144 -0.282020280
## 377 -0.349649591 -0.167356312 1.280157142 -0.04580151 0.957660395
## 378 0.344914442 -0.167356312 -0.132603877 -0.04580151 0.213851990
## 379 -0.349649591 0.863879113 0.543929569 -0.04580151 -0.483468390
## 380 -0.349649591 -0.167356312 2.115874928 0.80490210 -0.483468390
## 381 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.236588547
## 382 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 383 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.469028674
## 384 2.491748725 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 385 -0.349649591 -0.167356312 0.583725654 -0.04580151 1.314068589
## 386 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 387 2.712746372 -0.167356312 -0.570360813 -0.04580151 0.260340015
## 388 1.355189399 -0.167356312 1.578627780 -0.04580151 0.353316066
## 389 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 390 -0.349649591 0.676381763 -0.570360813 -0.04580151 -0.483468390
## 391 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.508276150
## 392 0.187058980 -0.167356312 -0.232094090 0.23146485 -0.220036246
## 393 0.376485534 0.012328649 0.364847186 -0.04580151 0.601252201

```

```

## 394 -0.349649591 0.160764051 -0.570360813 -0.04580151 0.167363965
## 395 -0.349649591 -0.167356312 2.175569056 -0.04580151 -0.483468390
## 396 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 397 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 398 -0.349649591 -0.167356312 2.076078843 -0.04580151 0.539268167
## 399 -0.065509759 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 400 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.282020280
## 401 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 402 -0.254936314 -0.159543922 -0.271890175 -0.04580151 -0.344004314
## 403 1.986611247 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 404 0.123916795 0.074827765 -0.570360813 -0.04580151 -0.483468390
## 405 -0.349649591 0.262325115 0.524031526 -0.04580151 1.221092539
## 406 -0.097080852 -0.034545689 0.106172633 -0.04580151 1.778948843
## 407 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 408 -0.349649591 -0.167356312 5.458746073 -0.04580151 0.182859973
## 409 -0.349649591 -0.167356312 6.155177562 -0.04580151 -0.483468390
## 410 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 411 -0.349649591 -0.167356312 1.976588631 -0.04580151 -0.483468390
## 412 0.723767551 -0.167356312 2.812306417 -0.04580151 1.097124471
## 413 0.597483181 -0.167356312 0.026580463 -0.04580151 -0.483468390
## 414 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 415 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.771708294
## 416 -0.349649591 -0.167356312 1.180666930 -0.04580151 -0.483468390
## 417 -0.349649591 -0.167356312 0.364847186 -0.04580151 2.476269223
## 418 -0.349649591 -0.167356312 1.240361057 -0.04580151 -0.483468390
## 419 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 420 2.996886204 -0.167356312 0.822502164 -0.04580151 1.159108505
## 421 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 422 3.249454943 -0.167356312 -0.570360813 -0.04580151 1.283076573
## 423 -0.349649591 -0.167356312 0.663317824 -0.04580151 0.477284134
## 424 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 425 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 426 0.187058980 0.035765817 1.837302333 -0.04580151 0.182859973
## 427 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 428 1.197333937 -0.167356312 0.902094334 -0.04580151 -0.111564187
## 429 -0.349649591 -0.167356312 1.837302333 -0.04580151 -0.483468390
## 430 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 431 -0.349649591 -0.167356312 -0.053011707 -0.04580151 -0.483468390
## 432 0.881623013 -0.167356312 -0.570360813 -0.04580151 0.725220269
## 433 -0.349649591 -0.167356312 1.001584547 -0.04580151 -0.483468390
## 434 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 435 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 436 -0.349649591 -0.167356312 1.479137568 -0.04580151 1.112620480
## 437 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 438 -0.002367575 -0.167356312 -0.351482345 -0.04580151 -0.483468390
## 439 -0.349649591 -0.167356312 0.902094334 -0.04580151 2.383293172
## 440 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 441 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 442 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 443 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 444 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.391548632
## 445 -0.349649591 -0.167356312 0.066376548 -0.04580151 -0.483468390
## 446 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 447 1.355189399 -0.167356312 -0.570360813 -0.04580151 2.863669434

```

```

## 448 -0.349649591 -0.167356312 0.862298249 -0.04580151 1.763452834
## 449 -0.349649591 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 450 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 451 0.281772257 -0.167356312 -0.371380387 -0.04580151 -0.483468390
## 452 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.042380986
## 453 -0.349649591 0.082640155 1.339851270 -0.04580151 -0.483468390
## 454 0.502769904 0.043578207 0.524031526 -0.04580151 -0.065076162
## 455 0.976336290 -0.167356312 -0.570360813 -0.04580151 0.833692328
## 456 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 457 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 458 -0.349649591 0.121702103 0.165866761 -0.04580151 -0.344004314
## 459 0.439627719 -0.167356312 -0.570360813 -0.04580151 0.306828041
## 460 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 461 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 462 -0.128651944 -0.167356312 -0.271890175 -0.04580151 -0.344004314
## 463 -0.349649591 0.637319815 -0.570360813 -0.04580151 1.112620480
## 464 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 465 -0.349649591 0.442010075 4.085781139 -0.04580151 0.725220269
## 466 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 467 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.297516289
## 468 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 469 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 470 0.313343349 -0.167356312 -0.152501920 0.08653017 0.492780142
## 471 -0.349649591 -0.167356312 0.464337399 -0.04580151 0.322324049
## 472 1.039478475 -0.167356312 -0.570360813 -0.04580151 1.577500733
## 473 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 474 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 475 -0.349649591 -0.167356312 -0.570360813 -0.04580151 3.204581620
## 476 -0.318078499 -0.159543922 -0.311686260 -0.04580151 -0.282020280
## 477 1.292047214 0.856066723 -0.053011707 -0.04580151 4.010374059
## 478 -0.349649591 -0.167356312 0.265356973 -0.04580151 0.508276150
## 479 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 480 0.187058980 -0.034545689 -0.072909750 -0.04580151 0.182859973
## 481 0.913194105 0.207638388 0.165866761 -0.04580151 -0.266524272
## 482 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 483 -0.349649591 0.363886180 -0.570360813 -0.04580151 5.838903055
## 484 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 485 -0.033938667 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 486 0.155487887 0.020141038 1.896996461 -0.04580151 0.151867956
## 487 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 488 0.344914442 -0.167356312 0.981686504 -0.04580151 -0.483468390
## 489 2.649604187 -0.167356312 -0.112705835 -0.04580151 -0.127060196
## 490 -0.349649591 0.254512726 -0.570360813 -0.04580151 0.353316066
## 491 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 492 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 493 -0.349649591 -0.167356312 0.046478506 -0.04580151 0.492780142
## 494 1.071049567 0.535758750 1.220463015 -0.04580151 0.213851990
## 495 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.461788125
## 496 -0.349649591 -0.167356312 1.936792546 -0.04580151 -0.483468390
## 497 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 498 -0.349649591 0.098264934 -0.570360813 -0.04580151 0.570260184
## 499 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 500 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 501 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 502 -0.349649591 -0.167356312 3.528635948 -0.04580151 -0.483468390
## 503 0.534340996 -0.167356312 -0.013215622 -0.04580151 1.732460817
## 504 -0.349649591 -0.167356312 0.205662846 -0.04580151 1.329564598
## 505 0.281772257 0.465447244 0.643419781 -0.04580151 -0.483468390
## 506 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.344004314
## 507 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.182859973
## 508 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 509 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 510 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 511 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 512 -0.349649591 -0.167356312 -0.351482345 -0.04580151 -0.313012297
## 513 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 514 -0.349649591 0.465447244 -0.570360813 -0.04580151 2.662221324
## 515 -0.349649591 0.082640155 1.339851270 -0.04580151 -0.483468390
## 516 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 517 -0.349649591 0.317011842 0.663317824 -0.04580151 -0.003092128
## 518 0.376485534 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 519 -0.286507406 -0.167356312 -0.271890175 -0.04580151 -0.111564187
## 520 -0.191794129 -0.167356312 0.325051101 -0.04580151 -0.235532255
## 521 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 522 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 523 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 524 -0.191794129 -0.167356312 -0.351482345 -0.04580151 -0.235532255
## 525 3.565165867 0.152951661 1.896996461 -0.04580151 -0.483468390
## 526 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 527 -0.349649591 -0.167356312 -0.132603877 4.40936480 -0.483468390
## 528 0.281772257 -0.167356312 -0.172399962 -0.04580151 -0.173548221
## 529 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 530 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.964900944
## 531 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 532 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 533 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 534 -0.097080852 -0.104857195 -0.072909750 -0.04580151 -0.483468390
## 535 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 536 -0.349649591 -0.167356312 2.215365141 -0.04580151 -0.483468390
## 537 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 538 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.198355982
## 539 0.692196458 0.356073790 -0.570360813 -0.04580151 -0.483468390
## 540 -0.349649591 -0.167356312 0.524031526 -0.04580151 -0.483468390
## 541 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 542 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.297516289
## 543 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 544 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 545 1.007907382 -0.167356312 0.285255016 -0.04580151 0.182859973
## 546 -0.097080852 -0.167356312 -0.251992132 -0.04580151 -0.483468390
## 547 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 548 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 549 0.092345703 -0.167356312 -0.013215622 -0.04580151 -0.344004314
## 550 -0.349649591 -0.167356312 3.329655523 -0.04580151 -0.483468390
## 551 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 552 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.942164387
## 553 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 554 -0.349649591 -0.167356312 1.717914078 -0.04580151 0.105379931
## 555 2.996886204 -0.167356312 0.822502164 -0.04580151 1.159108505

```

```

## 556 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 557 1.986611247 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 558 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 559 0.850051920 -0.167356312 3.210267267 -0.04580151 1.283076573
## 560 -0.349649591 -0.167356312 0.285255016 -0.04580151 -0.483468390
## 561 -0.349649591 -0.167356312 -0.271890175 -0.04580151 -0.251028263
## 562 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 563 -0.349649591 0.004516259 0.086274591 -0.04580151 -0.142556204
## 564 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 565 0.060774610 -0.167356312 -0.053011707 -0.04580151 0.523772159
## 566 1.165762844 -0.167356312 1.359749312 -0.04580151 0.260340015
## 567 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 568 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 569 2.775888557 -0.167356312 1.399545397 -0.04580151 -0.483468390
## 570 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 571 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 572 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 573 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 574 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 575 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 576 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.359500322
## 577 -0.349649591 -0.167356312 0.524031526 -0.04580151 -0.483468390
## 578 -0.349649591 -0.167356312 -0.072909750 -0.04580151 -0.096068179
## 579 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 580 -0.349649591 -0.167356312 -0.570360813 0.79229908 -0.483468390
## 581 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.483468390
## 582 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 583 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 584 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 585 -0.191794129 -0.128294364 0.225560888 -0.04580151 0.043395897
## 586 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 587 -0.349649591 -0.167356312 0.623521739 -0.04580151 0.446292117
## 588 12.089360815 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 589 4.796438470 -0.167356312 2.673020119 -0.04580151 -0.483468390
## 590 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 591 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 592 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 593 -0.349649591 0.137326882 -0.570360813 -0.04580151 -0.483468390
## 594 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.911172370
## 595 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 596 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.632244218
## 597 1.481473768 -0.167356312 -0.570360813 -0.04580151 0.415300100
## 598 -0.349649591 0.207638388 0.384745229 -0.04580151 0.260340015
## 599 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 600 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 601 -0.349649591 0.254512726 0.504133484 -0.04580151 2.910157459
## 602 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.275836024
## 603 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 604 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 605 -0.349649591 0.106077324 0.822502164 -0.04580151 0.058891906
## 606 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.399804091
## 607 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 608 1.292047214 -0.167356312 4.165373309 -0.04580151 -0.080572170
## 609 0.218630072 -0.167356312 -0.391278430 -0.04580151 0.074387914

```

```

## 610 1.670900323 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 611 -0.349649591 -0.167356312 0.902094334 -0.04580151 2.383293172
## 612 0.187058980 -0.167356312 -0.232094090 -0.04580151 1.871924893
## 613 0.692196458 0.356073790 -0.570360813 -0.04580151 -0.483468390
## 614 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 615 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 616 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 617 -0.349649591 -0.167356312 -0.212196047 -0.04580151 -0.483468390
## 618 1.797184692 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 619 1.039478475 -0.167356312 1.180666930 -0.04580151 0.198355982
## 620 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 621 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 622 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 623 0.660625366 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 624 2.744317464 -0.042358078 0.245458931 -0.04580151 -0.359500322
## 625 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.794444851
## 626 -0.349649591 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 627 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 628 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 629 -0.349649591 0.832629554 -0.570360813 -0.04580151 0.508276150
## 630 -0.349649591 -0.167356312 0.643419781 -0.04580151 -0.483468390
## 631 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 632 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 633 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 634 1.007907382 -0.167356312 0.285255016 -0.04580151 -0.483468390
## 635 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 636 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 637 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 638 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 639 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 640 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 641 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 642 -0.349649591 -0.167356312 2.414345566 -0.04580151 -0.483468390
## 643 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 644 -0.160223037 -0.073607637 0.961788462 -0.04580151 -0.189044230
## 645 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 646 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 647 -0.349649591 -0.167356312 0.046478506 -0.04580151 0.477284134
## 648 1.165762844 0.590445477 1.359749312 -0.04580151 0.260340015
## 649 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.391548632
## 650 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 651 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 652 -0.349649591 -0.167356312 7.070487518 -0.04580151 -0.483468390
## 653 2.775888557 -0.167356312 1.399545397 -0.04580151 -0.483468390
## 654 -0.349649591 -0.167356312 -0.570360813 26.88054307 -0.483468390
## 655 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 656 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 657 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 658 -0.349649591 -0.081420026 -0.351482345 -0.04580151 0.043395897
## 659 -0.349649591 0.121702103 1.638321908 -0.04580151 0.089883922
## 660 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 661 1.260476121 0.168576440 0.006682421 -0.04580151 -0.266524272
## 662 0.565912089 -0.167356312 0.006682421 -0.04580151 -0.034084145
## 663 0.376485534 0.012328649 0.364847186 -0.04580151 0.601252201

```

## 664	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 665	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 666	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.911172370
## 667	-0.349649591	0.059202986	0.862298249	-0.04580151	-0.034084145
## 668	-0.349649591	0.324824232	-0.570360813	-0.04580151	1.484524682
## 669	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 670	-0.349649591	-0.167356312	0.981686504	-0.04580151	-0.483468390
## 671	-0.349649591	0.910753450	2.175569056	-0.04580151	-0.483468390
## 672	-0.349649591	-0.089232416	0.663317824	-0.04580151	-0.003092128
## 673	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 674	-0.349649591	0.059202986	1.160768887	-0.04580151	-0.034084145
## 675	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 676	-0.349649591	0.254512726	0.504133484	-0.04580151	1.190100522
## 677	-0.349649591	0.262325115	0.524031526	-0.04580151	1.236588547
## 678	-0.349649591	0.098264934	0.802604122	-0.04580151	0.043395897
## 679	1.891897970	-0.167356312	-0.351482345	-0.04580151	0.244844007
## 680	1.197333937	-0.167356312	-0.092807792	-0.04580151	-0.111564187
## 681	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 682	0.060774610	-0.167356312	-0.311686260	-0.04580151	-0.282020280
## 683	-0.349649591	-0.167356312	0.603623696	-0.04580151	-0.483468390
## 684	1.986611247	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 685	1.039478475	-0.167356312	1.180666930	-0.04580151	0.198355982
## 686	-0.349649591	-0.167356312	0.663317824	-0.04580151	0.477284134
## 687	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 688	-0.349649591	-0.167356312	-0.570360813	-0.04580151	5.466998852
## 689	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 690	-0.349649591	0.910753450	2.175569056	-0.04580151	-0.483468390
## 691	2.049753432	-0.167356312	0.185764803	-0.04580151	-0.297516289
## 692	2.491748725	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 693	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 694	-0.349649591	-0.167356312	2.036282758	-0.04580151	-0.483468390
## 695	-0.349649591	-0.167356312	1.419443440	-0.04580151	-0.483468390
## 696	0.218630072	-0.167356312	0.524031526	-0.04580151	-0.204540238
## 697	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.198355982
## 698	1.670900323	-0.167356312	0.703113909	-0.04580151	-0.483468390
## 699	-0.349649591	0.113889713	0.145968718	-0.04580151	-0.483468390
## 700	-0.349649591	-0.167356312	-0.053011707	-0.04580151	-0.483468390
## 701	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 702	-0.349649591	-0.167356312	0.086274591	-0.04580151	1.050636446
## 703	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 704	-0.349649591	0.176388830	0.305153058	-0.04580151	-0.483468390
## 705	-0.349649591	-0.167356312	-0.570360813	-0.04580151	5.250054734
## 706	1.607758138	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 707	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 708	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.902916910
## 709	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 710	1.481473768	-0.167356312	0.106172633	-0.04580151	-0.313012297
## 711	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 712	-0.349649591	0.176388830	1.200564972	-0.04580151	0.198355982
## 713	2.807459649	-0.167356312	0.086274591	-0.04580151	0.539268167
## 714	-0.349649591	-0.167356312	0.623521739	-0.04580151	0.446292117
## 715	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 716	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 717	-0.349649591	-0.167356312	0.961788462	-0.04580151	-0.483468390

## 718	-0.065509759	-0.167356312	-0.391278430	-0.04580151	0.120875939
## 719	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 720	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 721	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 722	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 723	-0.349649591	0.129514492	0.185764803	-0.04580151	-0.483468390
## 724	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.725220269
## 725	1.165762844	0.590445477	1.359749312	-0.04580151	0.260340015
## 726	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 727	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 728	-0.349649591	-0.167356312	0.583725654	-0.04580151	1.314068589
## 729	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 730	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.500020691
## 731	-0.349649591	-0.167356312	2.294957311	-0.04580151	-0.483468390
## 732	0.755338643	-0.167356312	0.126070676	-0.04580151	-0.483468390
## 733	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 734	-0.349649591	0.168576440	1.160768887	-0.04580151	-0.483468390
## 735	0.786909735	0.059202986	0.145968718	-0.04580151	-0.483468390
## 736	-0.349649591	-0.167356312	0.603623696	-0.04580151	-0.034084145
## 737	4.291300992	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 738	-0.349649591	0.418572907	-0.072909750	-0.04580151	-0.483468390
## 739	-0.349649591	-0.167356312	1.140870845	-0.04580151	-0.483468390
## 740	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 741	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 742	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 743	0.092345703	-0.057982857	0.006682421	-0.04580151	-0.483468390
## 744	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.740716277
## 745	-0.349649591	-0.167356312	-0.570360813	25.24215093	-0.483468390
## 746	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 747	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 748	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.244844007
## 749	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 750	-0.349649591	0.246700336	0.484235441	-0.04580151	0.337820058
## 751	1.197333937	0.051390597	0.225560888	-0.04580151	-0.344004314
## 752	-0.349649591	0.340449011	-0.570360813	-0.04580151	0.523772159
## 753	1.197333937	-0.167356312	-0.570360813	-0.04580151	0.275836024
## 754	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.198355982
## 755	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 756	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 757	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 758	-0.349649591	-0.167356312	3.488839863	-0.04580151	-0.483468390
## 759	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 760	-0.349649591	-0.167356312	0.384745229	-0.04580151	2.894661451
## 761	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 762	-0.349649591	-0.167356312	0.066376548	-0.04580151	0.508276150
## 763	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 764	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 765	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.012403880
## 766	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 767	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 768	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 769	-0.349649591	-0.167356312	0.444439356	-0.04580151	0.306828041
## 770	-0.349649591	-0.167356312	0.006682421	-0.04580151	-0.034084145
## 771	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390



```

## 772 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 773 1.670900323 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 774 -0.349649591 -0.167356312 0.464337399 -0.04580151 1.964900944
## 775 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 776 -0.349649591 0.035765817 0.981686504 -0.04580151 -0.080572170
## 777 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 778 -0.349649591 -0.018920910 -0.570360813 -0.04580151 -0.483468390
## 779 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 780 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.220036246
## 781 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 782 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 783 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 784 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 785 -0.349649591 -0.167356312 3.648024203 -0.04580151 1.159108505
## 786 0.439627719 -0.167356312 0.444439356 -0.04580151 -0.096068179
## 787 -0.349649591 -0.167356312 0.285255016 -0.04580151 0.864684345
## 788 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 789 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 790 -0.349649591 -0.167356312 0.882196292 -0.04580151 0.074387914
## 791 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 792 -0.349649591 -0.167356312 2.971490757 -0.04580151 -0.096068179
## 793 -0.349649591 0.160764051 -0.570360813 -0.04580151 0.167363965
## 794 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.266524272
## 795 -0.349649591 -0.167356312 0.046478506 -0.04580151 -0.483468390
## 796 1.165762844 -0.167356312 2.314855354 -0.04580151 0.260340015
## 797 -0.002367575 -0.167356312 -0.351482345 -0.04580151 -0.483468390
## 798 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 799 3.186312758 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 800 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 801 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 802 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 803 -0.349649591 0.152951661 -0.570360813 -0.04580151 -0.483468390
## 804 2.649604187 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 805 1.418331583 -0.167356312 0.543929569 -0.04580151 3.003133510
## 806 -0.065509759 0.215450778 0.603623696 -0.04580151 0.275836024
## 807 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 808 -0.349649591 0.348261400 0.742909994 -0.04580151 0.275836024
## 809 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 810 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 811 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 812 2.207608894 -0.167356312 1.041380632 -0.04580151 0.771708294
## 813 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 814 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.973156404
## 815 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 816 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 817 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 818 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 819 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 820 -0.349649591 -0.167356312 1.001584547 -0.04580151 -0.483468390
## 821 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.483468390
## 822 1.007907382 -0.167356312 -0.570360813 -0.04580151 0.864684345
## 823 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 824 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 825 -0.349649591 -0.167356312 0.961788462 -0.04580151 0.709724260

```

```

## 826 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.973156404
## 827 1.260476121 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 828 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 829 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 830 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 831 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 832 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 833 -0.349649591 -0.167356312 0.225560888 -0.04580151 -0.173548221
## 834 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 835 1.955040154 -0.167356312 0.145968718 -0.04580151 0.074387914
## 836 -0.349649591 -0.167356312 -0.033113665 -0.04580151 -0.483468390
## 837 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 838 -0.128651944 -0.167356312 -0.431074515 -0.04580151 -0.483468390
## 839 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 840 -0.349649591 -0.167356312 0.126070676 -0.04580151 -0.483468390
## 841 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 842 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 843 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 844 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 845 -0.065509759 -0.097044805 0.145968718 -0.04580151 0.926668378
## 846 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 847 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 848 -0.349649591 -0.167356312 -0.570360813 12.38707419 -0.483468390
## 849 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 850 0.786909735 -0.167356312 0.145968718 -0.04580151 0.074387914
## 851 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 852 -0.349649591 -0.167356312 -0.371380387 -0.04580151 -0.173548221
## 853 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 854 -0.349649591 0.059202986 0.006682421 -0.04580151 -0.034084145
## 855 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 856 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.105379931
## 857 -0.349649591 -0.167356312 0.802604122 -0.04580151 -0.483468390
## 858 -0.349649591 0.254512726 0.504133484 -0.04580151 1.205596530
## 859 -0.349649591 -0.018920910 0.563827611 -0.04580151 -0.344004314
## 860 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 861 -0.349649591 -0.018920910 1.578627780 -0.04580151 0.740716277
## 862 1.355189399 -0.167356312 0.504133484 -0.04580151 2.042380986
## 863 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 864 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 865 -0.349649591 -0.167356312 0.185764803 -0.04580151 1.298572581
## 866 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.072358092
## 867 -0.349649591 -0.167356312 0.603623696 -0.04580151 0.430796108
## 868 -0.349649591 0.309199453 -0.570360813 -0.04580151 1.407044640
## 869 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 870 0.439627719 -0.167356312 -0.072909750 -0.04580151 0.291332032
## 871 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.739701366
## 872 -0.349649591 -0.167356312 0.603623696 0.02351508 -0.483468390
## 873 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 874 0.881623013 -0.167356312 -0.311686260 -0.04580151 -0.282020280
## 875 -0.097080852 -0.042358078 0.066376548 -0.04580151 1.654980775
## 876 0.471198811 -0.167356312 0.464337399 -0.04580151 0.322324049
## 877 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 878 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.167363965
## 879 -0.349649591 -0.167356312 -0.152501920 -0.04580151 0.167363965

```

## 880	0.629054273	-0.011108520	0.862298249	-0.04580151	-0.483468390
## 881	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 882	-0.349649591	0.098264934	0.802604122	-0.04580151	0.043395897
## 883	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 884	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 885	0.187058980	-0.167356312	-0.411176473	-0.04580151	0.182859973
## 886	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 887	1.891897970	-0.167356312	0.842400207	-0.04580151	-0.483468390
## 888	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 889	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.158052213
## 890	0.155487887	0.082640155	0.723011952	-0.04580151	0.012403880
## 891	-0.349649591	-0.167356312	2.394447524	-0.04580151	-0.483468390
## 892	-0.349649591	-0.167356312	0.981686504	-0.04580151	-0.483468390
## 893	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 894	1.102620659	-0.167356312	0.344949144	-0.04580151	-0.483468390
## 895	-0.349649591	0.020141038	2.314855354	-0.04580151	0.074387914
## 896	-0.349649591	1.449808331	-0.570360813	-0.04580151	-0.483468390
## 897	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 898	3.375739312	0.137326882	0.603623696	-0.04580151	-0.483468390
## 899	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 900	-0.349649591	-0.167356312	1.160768887	0.50242971	0.864684345
## 901	-0.065509759	-0.018920910	1.379647355	-0.04580151	0.725220269
## 902	-0.349649591	-0.167356312	0.882196292	-0.04580151	-0.483468390
## 903	3.060028388	-0.167356312	1.578627780	-0.04580151	-0.483468390
## 904	-0.349649591	-0.167356312	0.524031526	-0.04580151	-0.142556204
## 905	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 906	-0.349649591	-0.167356312	1.459239525	-0.04580151	-0.483468390
## 907	-0.349649591	-0.167356312	2.533733822	-0.04580151	-0.483468390
## 908	0.502769904	0.043578207	-0.033113665	-0.04580151	-0.483468390
## 909	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 910	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 911	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 912	-0.349649591	-0.167356312	0.464337399	-0.04580151	-0.483468390
## 913	-0.349649591	-0.167356312	6.533240370	-0.04580151	-0.483468390
## 914	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 915	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 916	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 917	-0.349649591	-0.167356312	0.902094334	-0.04580151	-0.483468390
## 918	0.976336290	0.192013609	0.185764803	-0.04580151	-0.189044230
## 919	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.515516699
## 920	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 921	-0.349649591	-0.167356312	-0.570360813	-0.04580151	3.359541704
## 922	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.143612497
## 923	-0.349649591	-0.167356312	-0.570360813	-0.04580151	1.500020691
## 924	-0.349649591	-0.167356312	-0.570360813	-0.04580151	3.204581620
## 925	0.344914442	0.176388830	-0.570360813	-0.04580151	1.577500733
## 926	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 927	2.112895616	-0.167356312	-0.570360813	-0.04580151	0.120875939
## 928	-0.160223037	-0.167356312	-0.072909750	-0.04580151	-0.096068179
## 929	-0.349649591	-0.167356312	2.971490757	-0.04580151	-0.096068179
## 930	2.586462002	-0.167356312	1.280157142	-0.04580151	0.957660395
## 931	-0.349649591	-0.018920910	1.578627780	-0.04580151	0.740716277
## 932	-0.349649591	0.363886180	0.106172633	-0.04580151	0.043395897
## 933	-0.349649591	-0.167356312	0.384745229	-0.04580151	0.632244218

## 934	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 935	-0.349649591	-0.167356312	0.106172633	-0.04580151	-0.483468390
## 936	-0.349649591	-0.167356312	-0.570360813	-0.04580151	3.390533721
## 937	0.629054273	-0.167356312	0.663317824	-0.04580151	-0.483468390
## 938	0.408056627	-0.167356312	-0.331584302	-0.04580151	-0.483468390
## 939	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 940	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 941	0.344914442	0.520133971	0.305153058	-0.04580151	-0.142556204
## 942	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 943	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 944	-0.349649591	0.098264934	0.782706079	-0.04580151	-0.483468390
## 945	-0.349649591	-0.167356312	2.036282758	-0.04580151	-0.483468390
## 946	-0.349649591	10.988736004	-0.570360813	-0.04580151	-0.483468390
## 947	0.250201165	-0.167356312	-0.570360813	-0.04580151	-0.344004314
## 948	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.213851990
## 949	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.049580154
## 950	1.513044861	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 951	-0.349649591	-0.167356312	0.404643271	-0.04580151	1.794444851
## 952	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 953	0.629054273	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 954	-0.349649591	-0.167356312	0.484235441	-0.04580151	0.337820058
## 955	-0.349649591	-0.018920910	-0.570360813	-0.04580151	0.570260184
## 956	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 957	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 958	-0.349649591	-0.167356312	0.902094334	-0.04580151	-0.483468390
## 959	-0.349649591	10.988736004	-0.570360813	-0.04580151	-0.483468390
## 960	0.755338643	-0.089232416	0.524031526	-0.04580151	2.848173425
## 961	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.911172370
## 962	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 963	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 964	-0.349649591	-0.167356312	0.961788462	-0.04580151	0.709724260
## 965	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 966	1.165762844	-0.011108520	0.524031526	-0.04580151	-0.065076162
## 967	-0.349649591	0.184201219	-0.570360813	-0.04580151	0.926668378
## 968	-0.349649591	0.356073790	0.762808037	-0.04580151	0.291332032
## 969	-0.349649591	-0.167356312	0.902094334	-0.04580151	-0.483468390
## 970	4.196587715	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 971	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 972	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 973	-0.349649591	-0.167356312	1.737812120	-0.04580151	-0.483468390
## 974	2.996886204	-0.167356312	-0.570360813	-0.04580151	1.159108505
## 975	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 976	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 977	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 978	-0.349649591	-0.167356312	0.543929569	-0.04580151	-0.483468390
## 979	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390
## 980	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.523772159
## 981	0.060774610	-0.065795247	-0.053011707	-0.04580151	-0.080572170
## 982	-0.349649591	-0.167356312	-0.570360813	-0.04580151	4.304798219
## 983	-0.191794129	-0.167356312	-0.371380387	-0.04580151	-0.235532255
## 984	-0.349649591	0.442010075	2.533733822	-0.04580151	-0.483468390
## 985	-0.349649591	0.574820698	1.319953227	-0.04580151	-0.483468390
## 986	-0.349649591	-0.167356312	0.165866761	-0.04580151	0.089883922
## 987	0.250201165	-0.167356312	-0.570360813	-0.04580151	-0.344004314

```

## 988 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 989 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 990 1.765613600 -0.167356312 -0.132603877 -0.04580151 0.213851990
## 991 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 992 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 993 0.723767551 -0.128294364 0.583725654 -0.04580151 0.492780142
## 994 -0.349649591 -0.167356312 1.101074760 -0.04580151 0.384308083
## 995 -0.349649591 -0.167356312 0.842400207 -0.04580151 0.895676362
## 996 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 997 0.818480828 0.418572907 1.678117993 -0.04580151 0.089883922
## 998 -0.349649591 -0.167356312 6.791914922 -0.04580151 -0.483468390
## 999 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1000 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1001 -0.349649591 -0.167356312 5.458746073 -0.04580151 0.182859973
## 1002 1.071049567 0.535758750 1.220463015 -0.04580151 0.213851990
## 1003 -0.349649591 -0.167356312 0.703113909 -0.04580151 0.508276150
## 1004 -0.349649591 1.449808331 -0.570360813 -0.04580151 -0.483468390
## 1005 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1006 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1007 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1008 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1009 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.173548221
## 1010 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1011 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1012 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1013 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1014 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1015 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1016 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1017 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1018 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1019 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1020 -0.349649591 0.035765817 -0.053011707 -0.04580151 0.120875939
## 1021 0.313343349 -0.089232416 0.464337399 -0.04580151 1.469028674
## 1022 0.376485534 0.012328649 -0.570360813 -0.04580151 -0.127060196
## 1023 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1024 -0.349649591 -0.167356312 1.658219950 -0.04580151 0.384308083
## 1025 -0.349649591 -0.167356312 -0.570360813 -0.04580151 4.583726371
## 1026 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1027 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1028 -0.349649591 -0.167356312 0.981686504 -0.04580151 1.329564598
## 1029 0.786909735 -0.167356312 0.145968718 -0.04580151 0.074387914
## 1030 -0.349649591 -0.167356312 1.757710163 -0.04580151 -0.483468390
## 1031 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1032 -0.349649591 0.340449011 -0.570360813 -0.04580151 0.523772159
## 1033 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1034 -0.349649591 -0.167356312 4.404149819 -0.04580151 -0.483468390
## 1035 -0.191794129 -0.128294364 0.225560888 -0.04580151 0.043395897
## 1036 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.065076162
## 1037 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1038 4.796438470 -0.167356312 2.673020119 -0.04580151 -0.483468390
## 1039 0.692196458 -0.042358078 0.086274591 -0.04580151 -0.483468390
## 1040 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1041 -0.349649591 -0.167356312 0.444439356 -0.04580151 1.112620480

```

```

## 1042 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1043 -0.349649591 0.082640155 -0.570360813 -0.04580151 -0.483468390
## 1044 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1045 -0.349649591 -0.167356312 0.643419781 -0.04580151 -0.483468390
## 1046 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1047 -0.349649591 -0.073607637 -0.331584302 -0.04580151 -0.483468390
## 1048 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1049 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1050 -0.349649591 -0.167356312 1.658219950 -0.04580151 0.384308083
## 1051 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1052 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1053 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.182859973
## 1054 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1055 -0.349649591 0.254512726 -0.570360813 -0.04580151 -0.483468390
## 1056 0.250201165 0.426385296 -0.192298005 -0.04580151 -0.189044230
## 1057 -0.349649591 -0.034545689 -0.570360813 -0.04580151 0.043395897
## 1058 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 1059 -0.349649591 0.270137505 0.543929569 -0.04580151 1.252084556
## 1060 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1061 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 1062 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.012403880
## 1063 -0.349649591 -0.065795247 0.504133484 -0.04580151 -0.065076162
## 1064 -0.349649591 -0.167356312 5.279663690 -0.04580151 -0.483468390
## 1065 -0.097080852 -0.167356312 -0.251992132 -0.04580151 -0.483468390
## 1066 -0.349649591 -0.167356312 1.041380632 -0.04580151 -0.065076162
## 1067 -0.349649591 -0.167356312 -0.251992132 -0.04580151 -0.235532255
## 1068 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1069 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 1070 1.039478475 -0.167356312 -0.570360813 -0.04580151 0.895676362
## 1071 8.395543004 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1072 2.397035448 -0.167356312 1.160768887 -0.04580151 -0.483468390
## 1073 4.796438470 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1074 -0.033938667 -0.167356312 0.902094334 0.08653017 -0.158052213
## 1075 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1076 -0.349649591 1.863864978 -0.570360813 -0.04580151 -0.483468390
## 1077 -0.160223037 -0.167356312 -0.092807792 -0.04580151 -0.328508306
## 1078 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1079 1.765613600 -0.167356312 0.762808037 -0.04580151 -0.483468390
## 1080 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1081 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.554764176
## 1082 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1083 -0.349649591 0.277949894 0.563827611 -0.04580151 1.283076573
## 1084 -0.349649591 0.262325115 1.638321908 -0.04580151 0.368812074
## 1085 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1086 0.723767551 -0.167356312 0.802604122 -0.04580151 -0.220036246
## 1087 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1088 0.755338643 0.192013609 0.046478506 -0.04580151 -0.251028263
## 1089 -0.349649591 -0.167356312 0.344949144 -0.04580151 0.229347998
## 1090 4.354443177 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1091 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1092 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.266524272
## 1093 -0.191794129 -0.167356312 -0.371380387 -0.04580151 -0.235532255
## 1094 1.765613600 -0.167356312 0.762808037 -0.04580151 3.700453890
## 1095 0.944765197 -0.167356312 1.916894503 -0.04580151 -0.173548221

```

```

## 1096 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 1097 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.778948843
## 1098 -0.349649591 0.270137505 -0.570360813 -0.04580151 0.384308083
## 1099 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1100 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 1101 -0.349649591 -0.167356312 0.862298249 -0.04580151 0.632244218
## 1102 -0.349649591 -0.018920910 0.603623696 -0.04580151 -0.189044230
## 1103 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1104 -0.349649591 0.043578207 -0.570360813 -0.04580151 -0.483468390
## 1105 -0.349649591 -0.097044805 -0.291788217 -0.04580151 1.128116488
## 1106 0.565912089 0.285762284 0.583725654 -0.04580151 0.864684345
## 1107 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1108 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1109 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1110 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1111 -0.349649591 -0.167356312 0.981686504 -0.04580151 -0.483468390
## 1112 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 1113 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1114 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.570260184
## 1115 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1116 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.136371948
## 1117 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1118 -0.349649591 0.371698569 0.802604122 -0.04580151 0.306828041
## 1119 -0.349649591 -0.167356312 2.135772971 -0.04580151 0.570260184
## 1120 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1121 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1122 -0.349649591 0.449822465 -0.570360813 -0.04580151 -0.483468390
## 1123 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1124 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1125 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1126 0.723767551 -0.167356312 2.812306417 -0.04580151 1.097124471
## 1127 -0.349649591 -0.167356312 -0.112705835 -0.04580151 0.229347998
## 1128 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1129 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 1130 0.471198811 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1131 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1132 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1133 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1134 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1135 -0.349649591 1.020126904 -0.570360813 -0.04580151 0.694228252
## 1136 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1137 2.081324524 0.129514492 0.961788462 -0.04580151 -0.483468390
## 1138 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1139 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1140 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1141 -0.349649591 0.574820698 1.319953227 -0.04580151 -0.483468390
## 1142 -0.349649591 -0.167356312 0.364847186 -0.04580151 1.732460817
## 1143 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1144 -0.349649591 0.270137505 1.658219950 -0.04580151 2.987637501
## 1145 1.355189399 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1146 1.260476121 -0.167356312 0.961788462 -0.04580151 -0.096068179
## 1147 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1148 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1149 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1150 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1151 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.483468390
## 1152 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1153 -0.349649591 0.199825999 -0.570360813 -0.04580151 -0.483468390
## 1154 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1155 1.355189399 -0.167356312 -0.570360813 -0.04580151 2.863669434
## 1156 -0.349649591 -0.167356312 -0.570360813 0.46462066 -0.483468390
## 1157 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1158 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.018588137
## 1159 1.734042508 -0.167356312 0.742909994 -0.04580151 -0.483468390
## 1160 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1161 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1162 0.502769904 0.043578207 -0.570360813 -0.04580151 0.802700311
## 1163 1.007907382 -0.167356312 0.285255016 -0.04580151 0.182859973
## 1164 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1165 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1166 -0.349649591 0.207638388 0.384745229 -0.04580151 0.260340015
## 1167 -0.349649591 -0.167356312 -0.251992132 -0.04580151 -0.235532255
## 1168 -0.349649591 1.668555239 -0.570360813 -0.04580151 1.329564598
## 1169 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1170 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1171 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1172 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.260340015
## 1173 1.165762844 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1174 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1175 -0.349649591 -0.057982857 -0.291788217 -0.04580151 -0.483468390
## 1176 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1177 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1178 -0.349649591 -0.167356312 -0.570360813 -0.04580151 7.667432051
## 1179 -0.349649591 -0.167356312 -0.092807792 -0.04580151 0.275836024
## 1180 -0.349649591 0.192013609 0.344949144 -0.04580151 1.685972792
## 1181 -0.349649591 0.231075557 -0.570360813 -0.04580151 -0.483468390
## 1182 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1183 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1184 -0.349649591 -0.081420026 0.126070676 -0.04580151 1.345060606
## 1185 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1186 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1187 -0.349649591 1.106063189 1.041380632 -0.04580151 -0.483468390
## 1188 -0.349649591 -0.167356312 1.837302333 -0.04580151 -0.483468390
## 1189 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1190 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1191 -0.349649591 0.465447244 2.354651439 -0.04580151 1.531012708
## 1192 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1193 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1194 -0.349649591 -0.167356312 -0.311686260 -0.04580151 -0.080572170
## 1195 -0.349649591 -0.167356312 1.041380632 -0.04580151 -0.483468390
## 1196 1.891897970 -0.057982857 0.265356973 -0.04580151 1.066132454
## 1197 0.692196458 0.090452544 -0.570360813 -0.04580151 -0.483468390
## 1198 0.692196458 0.488884413 0.762808037 -0.04580151 0.554764176
## 1199 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 1200 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1201 -0.349649591 0.020141038 -0.570360813 -0.04580151 -0.111564187
## 1202 1.165762844 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1203 -0.349649591 -0.167356312 0.782706079 -0.04580151 -0.483468390

```



```

## 1204 -0.349649591 -0.167356312 0.404643271 -0.04580151 -0.483468390
## 1205 -0.349649591 0.035765817 0.981686504 -0.04580151 -0.080572170
## 1206 -0.191794129 -0.167356312 0.006682421 -0.04580151 -0.127060196
## 1207 -0.349649591 -0.167356312 0.902094334 -0.04580151 -0.483468390
## 1208 -0.065509759 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1209 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1210 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1211 0.502769904 -0.128294364 -0.371380387 -0.04580151 -0.483468390
## 1212 2.176037801 -0.167356312 1.021482589 -0.04580151 1.995892961
## 1213 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.879165442
## 1214 -0.349649591 0.176388830 -0.570360813 -0.04580151 0.198355982
## 1215 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1216 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1217 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1218 -0.349649591 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 1219 0.660625366 -0.167356312 0.703113909 -0.04580151 -0.483468390
## 1220 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1221 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1222 -0.349649591 -0.167356312 1.459239525 -0.04580151 -0.483468390
## 1223 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1224 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1225 -0.349649591 -0.167356312 1.976588631 -0.04580151 -0.483468390
## 1226 -0.349649591 -0.167356312 4.045985054 -0.04580151 -0.483468390
## 1227 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1228 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.825436868
## 1229 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1230 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1231 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 1232 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1233 -0.349649591 -0.167356312 1.280157142 -0.04580151 -0.003092128
## 1234 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.058891906
## 1235 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.879165442
## 1236 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1237 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1238 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 1239 -0.349649591 -0.167356312 0.305153058 -0.04580151 0.198355982
## 1240 -0.349649591 0.059202986 1.160768887 -0.04580151 -0.034084145
## 1241 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1242 -0.349649591 0.020141038 2.314855354 -0.04580151 0.074387914
## 1243 -0.349649591 0.363886180 0.106172633 -0.04580151 -0.483468390
## 1244 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1245 -0.349649591 0.723256100 1.698016035 -0.04580151 -0.483468390
## 1246 3.375739312 0.137326882 0.603623696 -0.04580151 -0.483468390
## 1247 -0.349649591 -0.167356312 0.603623696 -0.04580151 0.430796108
## 1248 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 1249 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1250 -0.349649591 -0.167356312 1.538831695 -0.04580151 -0.483468390
## 1251 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1252 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1253 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1254 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.902916910
## 1255 0.913194105 0.207638388 0.165866761 -0.04580151 -0.266524272
## 1256 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1257 -0.349649591 -0.167356312 0.145968718 -0.04580151 0.647740226

```

```

## 1258 -0.349649591 -0.167356312 2.354651439 -0.04580151 -0.483468390
## 1259 -0.349649591 -0.167356312 -0.112705835 -0.04580151 -0.483468390
## 1260 1.292047214 0.856066723 -0.053011707 -0.04580151 4.010374059
## 1261 -0.349649591 -0.167356312 3.946494841 -0.04580151 -0.483468390
## 1262 -0.349649591 -0.167356312 2.633224034 -0.04580151 -0.483468390
## 1263 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1264 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1265 1.007907382 0.168576440 0.285255016 -0.04580151 0.182859973
## 1266 -0.349649591 -0.167356312 -0.570360813 -0.04580151 8.116816296
## 1267 -0.033938667 -0.011108520 1.439341483 -0.04580151 0.756212286
## 1268 -0.349649591 -0.167356312 -0.570360813 0.46462066 -0.483468390
## 1269 1.986611247 -0.167356312 -0.570360813 -0.04580151 0.663236235
## 1270 -0.349649591 0.363886180 -0.570360813 -0.04580151 -0.483468390
## 1271 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1272 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.049580154
## 1273 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1274 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.337820058
## 1275 -0.349649591 -0.167356312 -0.351482345 -0.04580151 -0.142556204
## 1276 -0.349649591 0.699818931 0.524031526 -0.04580151 -0.483468390
## 1277 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1278 -0.097080852 -0.104857195 0.941890419 -0.04580151 0.833692328
## 1279 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1280 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1281 0.187058980 -0.167356312 -0.232094090 -0.04580151 1.763452834
## 1282 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1283 -0.349649591 0.410760517 3.110777055 -0.04580151 -0.483468390
## 1284 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1285 0.123916795 -0.167356312 -0.271890175 -0.04580151 -0.483468390
## 1286 1.891897970 -0.167356312 -0.570360813 -0.04580151 7.264535832
## 1287 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1288 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1289 -0.349649591 -0.167356312 0.046478506 -0.04580151 0.492780142
## 1290 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1291 -0.349649591 -0.167356312 0.086274591 -0.04580151 -0.483468390
## 1292 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1293 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.012403880
## 1294 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.244844007
## 1295 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1296 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1297 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1298 -0.349649591 -0.167356312 0.424541314 -0.04580151 -0.483468390
## 1299 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.483468390
## 1300 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1301 -0.349649591 0.004516259 0.325051101 -0.04580151 0.570260184
## 1302 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1303 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1304 2.807459649 -0.167356312 1.419443440 -0.04580151 1.066132454
## 1305 -0.349649591 -0.167356312 1.896996461 -0.04580151 1.438036657
## 1306 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1307 -0.349649591 -0.167356312 0.583725654 -0.04580151 1.314068589
## 1308 -0.349649591 -0.167356312 0.265356973 -0.04580151 -0.483468390
## 1309 -0.349649591 -0.167356312 2.076078843 -0.04580151 2.274821113
## 1310 -0.349649591 -0.167356312 -0.212196047 -0.04580151 -0.483468390
## 1311 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1312 -0.349649591 -0.167356312 6.970997305 -0.04580151 -0.483468390
## 1313 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1314 -0.349649591 -0.167356312 -0.411176473 -0.04580151 -0.483468390
## 1315 0.155487887 0.082640155 0.723011952 -0.04580151 0.012403880
## 1316 -0.349649591 0.535758750 3.031184885 -0.04580151 -0.483468390
## 1317 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1318 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1319 1.481473768 -0.167356312 0.583725654 0.31968597 0.415300100
## 1320 -0.065509759 -0.097044805 0.145968718 -0.04580151 0.926668378
## 1321 -0.349649591 -0.018920910 -0.570360813 -0.04580151 -0.483468390
## 1322 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1323 0.944765197 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1324 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 1325 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.353316066
## 1326 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1327 0.913194105 0.145139271 -0.570360813 -0.04580151 -0.483468390
## 1328 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1329 0.123916795 -0.167356312 -0.271890175 -0.04580151 -0.483468390
## 1330 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1331 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1332 0.344914442 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1333 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1334 -0.349649591 -0.167356312 0.086274591 -0.04580151 0.027899889
## 1335 0.187058980 -0.167356312 -0.232094090 0.23146485 -0.220036246
## 1336 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1337 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1338 -0.349649591 -0.167356312 3.488839863 -0.04580151 -0.483468390
## 1339 1.544615953 -0.167356312 -0.570360813 -0.04580151 1.391548632
## 1340 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1341 -0.349649591 -0.104857195 -0.072909750 -0.04580151 0.818196319
## 1342 0.471198811 0.035765817 -0.570360813 -0.04580151 0.322324049
## 1343 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1344 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.080572170
## 1345 -0.349649591 -0.167356312 -0.152501920 -0.04580151 -0.158052213
## 1346 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.446292117
## 1347 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1348 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1349 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1350 0.218630072 -0.167356312 -0.212196047 -0.04580151 1.949404936
## 1351 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1352 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1353 1.860326877 -0.167356312 1.518933653 -0.04580151 -0.483468390
## 1354 -0.349649591 -0.167356312 0.623521739 -0.04580151 -0.483468390
## 1355 -0.349649591 -0.034545689 -0.570360813 -0.04580151 -0.220036246
## 1356 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1357 -0.349649591 -0.167356312 -0.271890175 -0.04580151 -0.018588137
## 1358 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1359 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.167363965
## 1360 -0.349649591 -0.167356312 -0.112705835 -0.04580151 -0.483468390
## 1361 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1362 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1363 0.092345703 -0.057982857 0.006682421 -0.04580151 -0.483468390
## 1364 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1365 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1366 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.849188336
## 1367 -0.349649591 -0.167356312 1.996486673 -0.04580151 -0.483468390
## 1368 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1369 -0.349649591 0.817004775 -0.570360813 -0.04580151 -0.483468390
## 1370 -0.349649591 0.176388830 1.200564972 -0.04580151 0.198355982
## 1371 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1372 -0.349649591 0.137326882 -0.570360813 -0.04580151 -0.483468390
## 1373 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1374 -0.349649591 0.832629554 -0.570360813 -0.04580151 -0.483468390
## 1375 -0.191794129 -0.167356312 0.046478506 -0.04580151 -0.483468390
## 1376 -0.349649591 1.754491524 -0.570360813 -0.04580151 -0.483468390
## 1377 -0.349649591 -0.167356312 -0.391278430 -0.04580151 -0.344004314
## 1378 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1379 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1380 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1381 -0.349649591 0.473259634 0.066376548 -0.04580151 1.283076573
## 1382 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1383 2.365464356 -0.167356312 1.140870845 -0.04580151 -0.483468390
## 1384 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1385 1.544615953 -0.167356312 0.145968718 -0.04580151 1.747956826
## 1386 -0.097080852 -0.104857195 0.643419781 -0.04580151 -0.483468390
## 1387 2.112895616 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1388 -0.349649591 -0.167356312 -0.152501920 -0.04580151 -0.483468390
## 1389 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.430796108
## 1390 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.508276150
## 1391 2.112895616 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1392 5.964568889 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1393 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1394 -0.349649591 -0.167356312 1.319953227 -0.04580151 -0.003092128
## 1395 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1396 -0.128651944 -0.167356312 -0.271890175 -0.04580151 -0.374996331
## 1397 1.449902676 -0.167356312 0.563827611 -0.04580151 -0.483468390
## 1398 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1399 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1400 0.692196458 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1401 -0.128651944 -0.143919143 -0.212196047 -0.04580151 -0.328508306
## 1402 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1403 -0.349649591 0.457634855 -0.570360813 -0.04580151 0.756212286
## 1404 1.828755785 -0.167356312 -0.570360813 -0.04580151 1.670476784
## 1405 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1406 -0.349649591 -0.167356312 0.245458931 -0.04580151 -0.483468390
## 1407 -0.349649591 -0.167356312 5.836808881 -0.04580151 4.506246329
## 1408 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.189044230
## 1409 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1410 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1411 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.004148421
## 1412 -0.349649591 -0.167356312 0.344949144 -0.04580151 -0.127060196
## 1413 -0.349649591 7.270038565 -0.570360813 -0.04580151 -0.483468390
## 1414 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1415 -0.349649591 1.004502125 2.414345566 -0.04580151 0.678732243
## 1416 0.344914442 0.004516259 -0.132603877 -0.04580151 2.259325105
## 1417 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1418 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1419 -0.349649591 -0.167356312 0.305153058 -0.04580151 1.592996741

```

```

## 1420 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1421 -0.349649591 0.074827765 0.046478506 -0.04580151 -0.483468390
## 1422 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1423 -0.191794129 0.067015376 0.225560888 -0.04580151 -0.328508306
## 1424 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.933908927
## 1425 -0.349649591 -0.167356312 1.916894503 -0.04580151 0.477284134
## 1426 -0.349649591 -0.167356312 -0.291788217 -0.04580151 -0.049580154
## 1427 -0.349649591 0.262325115 0.524031526 -0.04580151 1.221092539
## 1428 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1429 -0.191794129 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1430 1.197333937 0.051390597 0.225560888 -0.04580151 -0.344004314
## 1431 -0.349649591 0.262325115 -0.570360813 -0.04580151 -0.483468390
## 1432 1.386760491 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1433 2.207608894 -0.167356312 1.041380632 -0.04580151 0.771708294
## 1434 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.120875939
## 1435 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1436 -0.349649591 0.067015376 0.026580463 -0.04580151 0.461788125
## 1437 -0.349649591 0.035765817 1.001584547 -0.04580151 -0.080572170
## 1438 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1439 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1440 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1441 -0.349649591 -0.167356312 -0.570360813 0.21886184 0.818196319
## 1442 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1443 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1444 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1445 0.060774610 -0.167356312 -0.053011707 -0.04580151 0.523772159
## 1446 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.469028674
## 1447 0.723767551 0.637319815 0.106172633 -0.04580151 1.112620480
## 1448 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1449 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1450 2.870601834 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1451 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.794444851
## 1452 -0.065509759 -0.167356312 -0.033113665 -0.04580151 0.074387914
## 1453 1.891897970 -0.167356312 0.842400207 -0.04580151 -0.483468390
## 1454 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1455 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1456 -0.349649591 -0.167356312 2.036282758 -0.04580151 -0.483468390
## 1457 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1458 -0.033938667 -0.128294364 -0.371380387 -0.04580151 -0.003092128
## 1459 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1460 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1461 -0.349649591 -0.167356312 -0.570360813 26.93095513 1.500020691
## 1462 0.187058980 -0.167356312 -0.411176473 -0.04580151 0.167363965
## 1463 -0.349649591 -0.167356312 1.379647355 0.26297240 -0.483468390
## 1464 0.187058980 -0.034545689 -0.570360813 -0.04580151 0.322324049
## 1465 4.196587715 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1466 1.891897970 -0.167356312 0.842400207 -0.04580151 -0.483468390
## 1467 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1468 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1469 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1470 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1471 -0.349649591 -0.167356312 0.066376548 -0.04580151 0.523772159
## 1472 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1473 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```

```

## 1474 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1475 -0.349649591 -0.167356312 0.364847186 -0.04580151 1.716964809
## 1476 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1477 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1478 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1479 -0.349649591 -0.167356312 -0.570360813 -0.04580151 3.204581620
## 1480 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1481 0.344914442 0.176388830 -0.570360813 -0.04580151 1.577500733
## 1482 -0.349649591 -0.167356312 1.678117993 -0.04580151 1.267580564
## 1483 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1484 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1485 0.218630072 -0.167356312 -0.212196047 -0.04580151 1.949404936
## 1486 1.355189399 -0.065795247 0.185764803 -0.04580151 -0.405988348
## 1487 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1488 4.291300992 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1489 -0.349649591 -0.167356312 0.265356973 -0.04580151 0.508276150
## 1490 0.250201165 -0.167356312 -0.570360813 -0.04580151 -0.344004314
## 1491 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1492 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1493 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1494 -0.349649591 0.277949894 0.563827611 -0.04580151 1.283076573
## 1495 -0.349649591 -0.167356312 -0.570360813 0.68517345 -0.483468390
## 1496 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1497 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1498 -0.033938667 -0.167356312 0.902094334 0.08653017 -0.158052213
## 1499 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1500 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1501 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1502 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1503 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1504 2.176037801 -0.167356312 1.021482589 -0.04580151 1.995892961
## 1505 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1506 -0.349649591 -0.167356312 -0.033113665 -0.04580151 0.771708294
## 1507 1.134191752 0.567008309 1.300055185 -0.04580151 0.244844007
## 1508 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1509 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1510 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.198355982
## 1511 -0.349649591 -0.167356312 0.782706079 -0.04580151 0.570260184
## 1512 -0.349649591 0.363886180 -0.570360813 -0.04580151 5.838903055
## 1513 5.964568889 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1514 2.807459649 -0.167356312 0.086274591 -0.04580151 0.539268167
## 1515 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1516 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1517 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1518 -0.349649591 -0.167356312 -0.570360813 0.21886184 0.818196319
## 1519 -0.349649591 -0.167356312 0.185764803 -0.04580151 0.694228252
## 1520 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1521 0.629054273 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1522 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1523 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1524 2.018182339 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1525 -0.349649591 -0.167356312 0.026580463 -0.04580151 -0.018588137
## 1526 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1527 0.565912089 -0.018920910 0.782706079 -0.04580151 -0.483468390

```

```

## 1528 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1529 -0.349649591 -0.167356312 0.126070676 -0.04580151 0.058891906
## 1530 -0.349649591 -0.167356312 0.524031526 -0.04580151 0.368812074
## 1531 -0.349649591 -0.167356312 1.120972802 -0.04580151 1.623988758
## 1532 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1533 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1534 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1535 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1536 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1537 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1538 -0.349649591 -0.151731532 -0.470870600 -0.04580151 -0.452476373
## 1539 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1540 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.453532665
## 1541 -0.349649591 0.231075557 -0.570360813 -0.04580151 1.097124471
## 1542 -0.349649591 0.004516259 0.325051101 -0.04580151 0.570260184
## 1543 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1544 -0.349649591 -0.167356312 0.145968718 -0.04580151 -0.483468390
## 1545 -0.349649591 -0.167356312 3.906698756 -0.04580151 -0.483468390
## 1546 -0.349649591 -0.167356312 2.394447524 -0.04580151 -0.483468390
## 1547 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1548 -0.349649591 -0.167356312 2.772510332 -0.04580151 0.027899889
## 1549 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1550 8.648111743 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1551 -0.349649591 0.051390597 -0.570360813 -0.04580151 -0.483468390
## 1552 -0.349649591 0.895128671 1.220463015 -0.04580151 -0.483468390
## 1553 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1554 2.586462002 -0.167356312 -0.570360813 -0.04580151 0.957660395
## 1555 0.439627719 0.223263167 0.424541314 -0.04580151 -0.483468390
## 1556 -0.349649591 -0.167356312 1.638321908 -0.04580151 1.236588547
## 1557 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1558 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1559 -0.349649591 -0.167356312 5.379153903 0.21886184 0.167363965
## 1560 -0.349649591 -0.167356312 0.723011952 -0.04580151 0.523772159
## 1561 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1562 3.344168220 2.582604819 -0.570360813 -0.04580151 -0.483468390
## 1563 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.570260184
## 1564 -0.349649591 0.184201219 -0.570360813 -0.04580151 0.926668378
## 1565 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1566 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1567 0.597483181 -0.167356312 1.877098418 -0.04580151 1.902916910
## 1568 12.278787370 -0.167356312 1.419443440 -0.04580151 1.066132454
## 1569 -0.349649591 0.199825999 -0.570360813 -0.04580151 0.244844007
## 1570 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1571 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.027899889
## 1572 2.902172926 -0.167356312 -0.570360813 -0.04580151 1.112620480
## 1573 0.060774610 -0.089232416 0.524031526 -0.04580151 -0.452476373
## 1574 0.408056627 -0.167356312 1.399545397 -0.04580151 1.050636446
## 1575 2.460177633 -0.167356312 -0.570360813 -0.04580151 0.895676362
## 1576 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1577 -0.349649591 0.051390597 0.265356973 -0.04580151 -0.483468390
## 1578 -0.349649591 -0.167356312 2.434243609 -0.04580151 -0.483468390
## 1579 -0.349649591 -0.167356312 -0.232094090 -0.04580151 -0.483468390
## 1580 -0.349649591 -0.167356312 1.936792546 -0.04580151 -0.483468390
## 1581 -0.191794129 -0.167356312 -0.271890175 -0.04580151 -0.405988348

```

```

## 1582 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1583 2.491748725 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1584 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1585 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1586 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1587 -0.349649591 -0.167356312 -0.212196047 -0.04580151 -0.204540238
## 1588 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1589 3.028457296 -0.167356312 1.558729738 -0.04580151 1.174604513
## 1590 -0.349649591 -0.167356312 -0.570360813 -0.04580151 5.234558726
## 1591 -0.349649591 -0.167356312 0.484235441 -0.04580151 -0.158052213
## 1592 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1593 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.933908927
## 1594 -0.349649591 0.254512726 -0.570360813 -0.04580151 -0.483468390
## 1595 1.292047214 -0.167356312 4.165373309 -0.04580151 -0.080572170
## 1596 -0.349649591 -0.065795247 -0.311686260 -0.04580151 -0.483468390
## 1597 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1598 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1599 1.228905029 0.168576440 -0.013215622 -0.04580151 -0.266524272
## 1600 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1601 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 1602 0.029203518 -0.167356312 -0.331584302 -0.04580151 -0.297516289
## 1603 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1604 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1605 -0.349649591 0.668569373 -0.570360813 -0.04580151 2.290317121
## 1606 -0.349649591 0.434197686 0.961788462 -0.04580151 0.709724260
## 1607 -0.349649591 -0.167356312 -0.013215622 -0.04580151 -0.049580154
## 1608 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.647740226
## 1609 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1610 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1611 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1612 3.375739312 0.137326882 0.603623696 -0.04580151 -0.483468390
## 1613 -0.349649591 -0.167356312 0.205662846 -0.04580151 0.120875939
## 1614 -0.349649591 -0.167356312 -0.072909750 -0.04580151 0.105379931
## 1615 -0.349649591 -0.167356312 1.479137568 -0.04580151 1.112620480
## 1616 -0.349649591 -0.167356312 0.921992377 -0.04580151 0.678732243
## 1617 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.647740226
## 1618 -0.349649591 0.387323348 0.842400207 -0.04580151 0.058891906
## 1619 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1620 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.105379931
## 1621 -0.128651944 0.004516259 1.061278675 -0.04580151 0.322324049
## 1622 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1623 -0.349649591 -0.167356312 0.404643271 -0.04580151 1.794444851
## 1624 -0.033938667 -0.089232416 0.822502164 -0.04580151 0.446292117
## 1625 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1626 -0.349649591 -0.167356312 0.384745229 -0.04580151 0.632244218
## 1627 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1628 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.856428885
## 1629 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1630 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1631 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1632 -0.349649591 -0.018920910 -0.570360813 -0.04580151 0.570260184
## 1633 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1634 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1635 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390

```



```

## 1636 -0.349649591 0.254512726 0.504133484 -0.04580151 1.205596530
## 1637 -0.349649591 -0.167356312 1.737812120 -0.04580151 1.314068589
## 1638 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1639 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1640 -0.349649591 -0.167356312 0.524031526 -0.04580151 0.368812074
## 1641 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.267580564
## 1642 1.134191752 0.574820698 1.319953227 -0.04580151 0.244844007
## 1643 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1644 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1645 -0.097080852 -0.034545689 -0.232094090 -0.04580151 0.756212286
## 1646 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1647 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.182859973
## 1648 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1649 -0.349649591 -0.167356312 0.225560888 -0.04580151 -0.483468390
## 1650 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1651 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1652 1.860326877 -0.167356312 1.518933653 -0.04580151 -0.483468390
## 1653 1.228905029 -0.167356312 0.424541314 -0.04580151 1.856428885
## 1654 1.639329230 -0.167356312 0.683215866 -0.04580151 1.484524682
## 1655 0.913194105 0.035765817 1.280157142 -0.04580151 -0.483468390
## 1656 -0.033938667 -0.167356312 -0.371380387 -0.04580151 -0.483468390
## 1657 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1658 -0.349649591 -0.167356312 -0.072909750 -0.04580151 -0.096068179
## 1659 -0.349649591 0.074827765 0.265356973 -0.04580151 -0.483468390
## 1660 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1661 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1662 -0.349649591 -0.167356312 0.643419781 -0.04580151 -0.483468390
## 1663 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1664 -0.349649591 0.270137505 0.543929569 -0.04580151 3.034125527
## 1665 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1666 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1667 0.187058980 -0.167356312 0.126070676 -0.04580151 0.337820058
## 1668 -0.349649591 -0.167356312 -0.570360813 -0.04580151 2.491765231
## 1669 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1670 -0.349649591 -0.167356312 0.941890419 -0.04580151 0.694228252
## 1671 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1672 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1673 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.004148421
## 1674 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1675 0.250201165 -0.018920910 0.006682421 -0.04580151 1.174604513
## 1676 -0.349649591 -0.167356312 -0.570360813 -0.04580151 1.143612497
## 1677 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1678 1.228905029 0.192013609 0.106172633 -0.04580151 -0.251028263
## 1679 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1680 -0.349649591 -0.167356312 -0.172399962 -0.04580151 -0.483468390
## 1681 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1682 -0.349649591 -0.167356312 0.265356973 -0.04580151 -0.483468390
## 1683 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1684 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1685 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1686 -0.349649591 -0.167356312 1.220463015 -0.04580151 -0.483468390
## 1687 -0.349649591 10.988736004 -0.570360813 -0.04580151 -0.483468390
## 1688 -0.349649591 -0.167356312 -0.570360813 -0.04580151 -0.483468390
## 1689 -0.349649591 -0.167356312 -0.570360813 -0.04580151 0.275836024

```

## 1690	-0.097080852	-0.104857195	0.941890419	-0.04580151	0.833692328	
## 1691	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1692	-0.349649591	-0.167356312	-0.092807792	-0.04580151	0.632244218	
## 1693	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1694	-0.033938667	-0.167356312	-0.371380387	-0.04580151	0.136371948	
## 1695	-0.349649591	-0.167356312	1.319953227	-0.04580151	-0.003092128	
## 1696	2.302322171	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1697	0.502769904	0.043578207	-0.033113665	-0.04580151	-0.483468390	
## 1698	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1699	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1700	-0.349649591	0.527946361	1.717914078	-0.04580151	-0.297516289	
## 1701	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1702	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1703	-0.349649591	0.809192385	-0.570360813	-0.04580151	-0.483468390	
## 1704	-0.349649591	10.988736004	-0.570360813	-0.04580151	-0.483468390	
## 1705	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1706	-0.349649591	-0.167356312	2.115874928	-0.04580151	0.554764176	
## 1707	-0.349649591	-0.167356312	-0.013215622	-0.04580151	-0.235532255	
## 1708	-0.002367575	-0.128294364	-0.132603877	-0.04580151	-0.142556204	
## 1709	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1710	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1711	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1712	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1713	1.355189399	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1714	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1715	-0.349649591	-0.167356312	2.533733822	-0.04580151	-0.483468390	
## 1716	5.964568889	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1717	0.597483181	-0.011108520	0.026580463	-0.04580151	-0.173548221	
## 1718	3.375739312	0.137326882	0.603623696	-0.04580151	-0.483468390	
## 1719	-0.349649591	-0.167356312	6.791914922	-0.04580151	-0.483468390	
## 1720	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1721	-0.097080852	-0.104857195	0.126070676	-0.04580151	1.871924893	
## 1722	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
## 1723	-0.349649591	-0.167356312	-0.570360813	-0.04580151	0.291332032	
## 1724	-0.349649591	-0.167356312	-0.570360813	-0.04580151	-0.483468390	
##	V6	V7	V8	V9	V10	V11
## 1	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 2	-0.34068756	-0.28188159	-0.27887059	0.075848749	-0.0306305629	-0.29459327
## 3	0.07419145	-0.28188159	0.06915900	-0.320389910	-0.3861860246	-0.29459327
## 4	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 5	1.06351834	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 6	1.35074227	-0.28188159	-0.27887059	-0.320389910	0.4331374305	-0.29459327
## 7	-0.34068756	-0.28188159	1.94316449	-0.320389910	-0.3861860246	-0.29459327
## 8	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 9	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 10	-0.34068756	-0.28188159	-0.27887059	0.400044016	0.0775819689	0.24363128
## 11	-0.34068756	-0.28188159	-0.27887059	2.381237312	5.4572906930	-0.29459327
## 12	-0.34068756	-0.28188159	-0.27887059	-0.320389910	2.1336200732	-0.29459327
## 13	-0.18111871	-0.28188159	-0.27887059	1.480694905	-0.3861860246	-0.29459327
## 14	-0.34068756	-0.28188159	-0.27887059	0.904347764	2.2418326050	-0.29459327
## 15	-0.34068756	0.82339697	-0.27887059	-0.320389910	1.1287894207	-0.29459327
## 16	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 17	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.5152627486	-0.29459327
## 18	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 19	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0312051695	-0.29459327
## 20	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 21	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 22	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 23	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 24	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.8505286246	-0.29459327
## 25	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 26	-0.11729117	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	0.45892110
## 27	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 28	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 29	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 30	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 31	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 32	-0.34068756	-0.28188159	-0.27887059	2.957584453	-0.3861860246	-0.29459327
## 33	0.52098424	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 34	-0.34068756	-0.28188159	3.22819682	-0.320389910	-0.3861860246	-0.29459327
## 35	-0.34068756	0.48504639	-0.27887059	-0.320389910	0.1394177013	-0.29459327
## 36	-0.34068756	-0.28188159	1.83607846	-0.320389910	-0.3861860246	-0.29459327
## 37	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 38	-0.34068756	-0.28188159	-0.27887059	-0.320389910	6.9722661383	-0.29459327
## 39	0.80820817	2.17679929	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 40	-0.08537740	-0.10142795	0.87230421	-0.032216339	-0.2625145597	-0.29459327
## 41	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 42	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 43	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 44	-0.34068756	-0.28188159	-0.27887059	2.921562756	-0.3861860246	-0.29459327
## 45	-0.34068756	0.03391228	-0.27887059	-0.320389910	0.2785480994	1.26625792
## 46	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 47	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 48	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 49	-0.34068756	1.34220119	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 50	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 51	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 52	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 53	-0.34068756	0.03391228	-0.27887059	-0.320389910	0.2630891663	0.45892110
## 54	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 55	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 56	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 57	-0.34068756	-0.28188159	-0.27887059	-0.320389910	7.7452127941	-0.29459327
## 58	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 59	1.03160456	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 60	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 61	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 62	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 63	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 64	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 65	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 66	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 67	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.4379680830	-0.29459327
## 68	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 69	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 70	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 71	0.68055309	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 72	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 73	-0.34068756	1.11663414	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 74	2.97834456	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 75	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 76	0.80820817	-0.14654136	-0.11824155	-0.104259732	-0.2006788272	0.02834146
## 77	1.47839735	-0.28188159	-0.27887059	-0.320389910	0.0466641026	-0.29459327
## 78	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.3403838318	-0.29459327
## 79	-0.34068756	-0.28188159	1.70222093	5.046842837	-0.3861860246	-0.29459327
## 80	-0.34068756	0.84595367	0.39041708	-0.320389910	1.1751662201	-0.29459327
## 81	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 82	1.82944883	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 83	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 84	-0.34068756	-0.28188159	-0.27887059	0.219935535	-0.1543020279	1.32008038
## 85	0.87203571	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 86	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 87	-0.34068756	-0.28188159	-0.27887059	-0.320389910	6.9722661383	-0.29459327
## 88	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.2167123669	-0.29459327
## 89	0.13801899	-0.28188159	-0.09147004	-0.068238036	-0.3861860246	-0.29459327
## 90	-0.34068756	-0.28188159	-0.27887059	-0.320389910	5.3027013619	-0.29459327
## 91	-0.34068756	-0.28188159	-0.27887059	-0.320389910	2.4118808693	-0.29459327
## 92	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 93	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 94	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.7268571597	-0.29459327
## 95	-0.34068756	-0.28188159	-0.27887059	-0.320389910	5.3336192281	-0.29459327
## 96	-0.08537740	-0.28188159	-0.27887059	0.255957231	-0.3861860246	0.13598637
## 97	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 98	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 99	1.51031112	0.03391228	1.27387681	-0.320389910	0.2785480994	-0.29459327
## 100	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 101	-0.34068756	0.14669581	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 102	1.79753505	-0.28188159	0.14947352	4.506517393	0.1239587682	-0.29459327
## 103	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 104	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 105	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 106	-0.34068756	-0.28188159	-0.27887059	0.508109105	-0.0306305629	0.94332319
## 107	-0.02154986	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 108	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 109	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 110	1.41456981	4.74826369	-0.27887059	-0.320389910	0.4640552967	-0.29459327
## 111	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.1548766344	-0.29459327
## 112	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 113	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 114	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 115	-0.34068756	0.66550003	-0.27887059	-0.320389910	-0.0615484292	0.83567828
## 116	-0.34068756	-0.28188159	0.25655955	-0.320389910	-0.0770073623	-0.29459327
## 117	2.34006915	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 118	2.59537932	-0.28188159	6.28014862	-0.320389910	-0.3861860246	-0.29459327
## 119	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 120	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 121	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 122	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 123	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 124	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 125	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 126	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 127	-0.34068756	0.50760309	0.65813215	-0.320389910	-0.1233841616	0.62038847
## 128	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 129	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.1751662201	-0.29459327
## 130	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 131	-0.34068756	0.84595367	1.05970476	-0.320389910	1.1751662201	-0.29459327
## 132	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 133	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 134	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 135	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 136	0.26567407	-0.28188159	-0.27887059	0.003805357	0.2167123669	-0.29459327
## 137	0.61672555	-0.28188159	-0.27887059	-0.320389910	0.0775819689	1.32008038
## 138	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 139	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 140	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 141	-0.34068756	2.13168588	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 142	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 143	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 144	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 145	0.42524293	-0.19165477	-0.17178456	0.544130801	-0.3861860246	-0.29459327
## 146	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 147	-0.34068756	-0.28188159	-0.03792703	-0.320389910	-0.3861860246	0.67421092
## 148	-0.34068756	0.14669581	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 149	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	6.32556867
## 150	-0.05346363	-0.28188159	0.20301653	0.003805357	-0.3861860246	-0.29459327
## 151	0.39332916	-0.19165477	3.04079627	1.120477942	0.2321713000	0.29745374
## 152	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 153	2.81877571	-0.28188159	-0.27887059	-0.320389910	1.1442483538	5.03382976
## 154	-0.08537740	-0.28188159	-0.06469854	-0.032216339	-0.2625145597	0.62038847
## 155	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 156	1.89327637	0.50760309	3.49591189	-0.320389910	-0.3861860246	1.58919265
## 157	1.57413866	-0.28188159	-0.27887059	1.840911868	-0.3861860246	-0.29459327
## 158	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 159	4.89317079	-0.28188159	0.44396010	1.624781690	0.4485963636	-0.29459327
## 160	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 161	-0.08537740	-0.28188159	-0.27887059	-0.032216339	-0.2625145597	0.13598637
## 162	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 163	1.47839735	-0.28188159	1.24710531	3.822105163	1.3915912837	-0.29459327
## 164	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 165	-0.34068756	-0.28188159	2.37150860	-0.320389910	-0.3861860246	-0.29459327
## 166	0.45715670	-0.28188159	0.39041708	-0.032216339	-0.3861860246	-0.29459327
## 167	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 168	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 169	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 170	-0.34068756	-0.28188159	-0.27887059	-0.320389910	2.6128469998	-0.29459327
## 171	-0.34068756	0.10158240	0.17624503	-0.320389910	-0.1233841616	-0.29459327
## 172	-0.34068756	-0.28188159	0.73844667	1.048434549	-0.3861860246	-0.29459327
## 173	0.93586325	-0.28188159	-0.27887059	-0.320389910	0.8659875577	-0.29459327
## 174	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.1852198941	-0.29459327
## 175	0.39332916	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 176	1.73370751	-0.28188159	1.46127736	-0.320389910	0.6186446279	-0.29459327
## 177	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 178	1.03160456	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 179	2.02093145	-0.28188159	7.64549548	-0.320389910	4.1896581776	-0.29459327
## 180	2.78686194	0.14669581	0.22978804	4.650604178	0.2167123669	-0.29459327

## 181	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 182	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 183	2.78686194	0.14669581	0.22978804	4.650604178	0.2167123669	-0.29459327
## 184	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 185	-0.34068756	0.05646899	-0.27887059	-0.320389910	0.3094659656	0.51274356
## 186	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 187	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.4640552967	-0.29459327
## 188	-0.34068756	-0.28188159	-0.27887059	6.199537119	-0.3861860246	-0.29459327
## 189	1.09543211	-0.28188159	0.01561599	3.353823112	2.0717843407	0.29745374
## 190	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 191	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 192	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 193	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 194	-0.34068756	-0.28188159	-0.27887059	-0.320389910	5.4418317599	-0.29459327
## 195	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 196	-0.34068756	3.32719126	-0.27887059	-0.320389910	0.4331374305	-0.29459327
## 197	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 198	0.45715670	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 199	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 200	1.44648358	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 201	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 202	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0930409020	-0.29459327
## 203	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 204	3.87193013	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 205	-0.34068756	0.10158240	1.11324777	-0.320389910	-0.1233841616	1.58919265
## 206	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 207	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 208	0.77629440	-0.16909807	-0.14501306	-0.140281428	-0.3088913590	-0.02548099
## 209	-0.34068756	0.93618049	-0.27887059	1.624781690	1.2988376850	-0.29459327
## 210	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	2.23506211
## 211	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 212	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 213	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 214	-0.08537740	-0.10142795	0.84553270	-0.032216339	-0.2625145597	-0.29459327
## 215	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 216	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.7935235447	-0.29459327
## 217	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 218	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 219	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 220	-0.34068756	1.25197437	-0.27887059	-0.320389910	0.1394177013	1.53537020
## 221	1.35074227	-0.28188159	-0.27887059	-0.320389910	2.0717843407	-0.29459327
## 222	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 223	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 224	1.73370751	0.43993298	0.57781763	-0.320389910	-0.3861860246	-0.29459327
## 225	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 226	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 227	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 228	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.3867606312	-0.29459327
## 229	0.68055309	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 230	0.01036391	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 231	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 232	0.13801899	-0.28188159	-0.27887059	2.921562756	-0.3861860246	-0.29459327
## 233	0.07419145	-0.16909807	0.41718859	1.264564727	0.7886928922	1.10479056
## 234	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 235	-0.34068756	-0.28188159	-0.27887059	-0.320389910	2.9684024614	-0.29459327
## 236	0.48907047	-0.28188159	-0.27887059	-0.320389910	0.0157462364	-0.29459327
## 237	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 238	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 239	0.68055309	-0.28188159	1.46127736	-0.320389910	-0.3861860246	-0.29459327
## 240	2.14858653	-0.28188159	-0.27887059	-0.320389910	0.8196107584	-0.29459327
## 241	0.01036391	-0.28188159	-0.27887059	1.912955260	-0.3861860246	-0.29459327
## 242	-0.24494625	-0.28188159	0.20301653	1.624781690	0.5722678286	1.26625792
## 243	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 244	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 245	-0.34068756	-0.28188159	2.58568066	-0.320389910	-0.3861860246	-0.29459327
## 246	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 247	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 248	-0.34068756	1.52265483	-0.27887059	-0.320389910	0.8505286246	-0.29459327
## 249	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 250	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 251	2.59537932	-0.28188159	6.28014862	-0.320389910	-0.3861860246	-0.29459327
## 252	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 253	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 254	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 255	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 256	0.29758784	0.16925251	-0.27887059	-0.320389910	1.2215430194	0.78185583
## 257	-0.08537740	-0.10142795	0.84553270	-0.032216339	-0.2625145597	-0.29459327
## 258	-0.34068756	-0.28188159	0.04238749	0.580152498	-0.2006788272	0.35127619
## 259	-0.34068756	-0.28188159	0.01561599	-0.320389910	-0.3861860246	-0.29459327
## 260	3.29748226	0.16925251	1.38096284	3.425866504	0.4176784974	0.78185583
## 261	0.10610522	0.34970616	0.47073160	-0.320389910	0.2785480994	0.45892110
## 262	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 263	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 264	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 265	-0.34068756	-0.28188159	1.78253545	-0.320389910	-0.3861860246	-0.29459327
## 266	-0.34068756	-0.28188159	2.71953819	-0.320389910	-0.3861860246	-0.29459327
## 267	0.13801899	-0.28188159	-0.09147004	-0.068238036	-0.3861860246	-0.29459327
## 268	-0.34068756	2.49259316	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 269	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 270	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 271	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0312051695	-0.29459327
## 272	-0.34068756	-0.28188159	-0.27887059	0.652195890	-0.3861860246	-0.29459327
## 273	-0.34068756	-0.28188159	1.62190640	-0.320389910	-0.3861860246	-0.29459327
## 274	-0.34068756	1.34220119	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 275	-0.34068756	-0.28188159	-0.27887059	3.353823112	0.0621230358	0.45892110
## 276	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 277	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.4022195643	5.19529712
## 278	-0.34068756	0.28203604	-0.27887059	-0.320389910	0.0002873033	1.05096810
## 279	0.39332916	-0.12398466	0.33687407	-0.320389910	-0.0306305629	0.08216392
## 280	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 281	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 282	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 283	-0.34068756	-0.28188159	2.82662422	-0.320389910	1.4070502168	-0.29459327
## 284	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 285	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 286	-0.34068756	3.53020161	-0.27887059	2.705432579	0.9123643571	-0.29459327
## 287	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 288	-0.34068756	0.80084026	-0.27887059	-0.320389910	1.1133304876	2.28888456

```

## 289 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3403838318 -0.29459327
## 290 -0.34068756 -0.28188159 -0.27887059 -0.320389910 4.7616387028 -0.29459327
## 291 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 292 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 293 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 294 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 295 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 296 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 297 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 298 -0.34068756 0.19180922 -0.27887059 -0.320389910 -0.3861860246 0.83567828
## 299 -0.34068756 -0.28188159 -0.14501306 -0.320389910 0.1548766344 -0.29459327
## 300 0.23376030 0.55271650 1.22033380 -0.320389910 -0.3861860246 1.69683756
## 301 3.23365472 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 302 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 303 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3867606312 -0.29459327
## 304 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 305 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 306 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 307 -0.34068756 -0.28188159 -0.27887059 1.264564727 -0.2161377603 -0.29459327
## 308 -0.34068756 3.46253149 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 309 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.9722661383 -0.29459327
## 310 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 311 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 312 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 313 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 314 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 315 -0.34068756 1.07152073 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 316 0.01036391 -0.28188159 -0.27887059 3.389844808 -0.3861860246 -0.29459327
## 317 0.42524293 -0.28188159 0.14947352 -0.320389910 0.3713016981 0.13598637
## 318 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 319 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 320 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.7104312510 4.44178276
## 321 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 322 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1133304876 -0.29459327
## 323 -0.34068756 -0.28188159 -0.27887059 2.885541060 -0.3861860246 -0.29459327
## 324 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 325 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 326 -0.34068756 1.86100541 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 327 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 328 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 329 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 330 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 331 -0.34068756 -0.28188159 -0.27887059 0.364022320 0.2012534338 0.18980883
## 332 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 333 -0.34068756 -0.28188159 3.09433929 -0.320389910 -0.3861860246 -0.29459327
## 334 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3249248987 -0.29459327
## 335 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 336 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.3229909475 -0.29459327
## 337 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 338 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 339 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2370019525 -0.29459327
## 340 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 341 -0.34068756 0.01135558 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 342 0.87203571 -0.28188159 -0.27887059 -0.320389910 0.0002873033 3.15004384

```



```

## 343 -0.34068756 2.06401576 2.50536614 -0.320389910 1.2215430194 -0.29459327
## 344 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 345 2.53155177 0.16925251 1.05970476 2.561345793 0.8505286246 0.78185583
## 346 -0.34068756 -0.28188159 -0.27887059 0.868326068 0.1239587682 1.48154774
## 347 -0.34068756 -0.28188159 -0.27887059 1.516716601 -0.3861860246 -0.29459327
## 348 1.98901768 1.36475790 2.66599518 0.976391157 0.1703355676 -0.29459327
## 349 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 350 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 351 -0.34068756 -0.28188159 0.71167517 -0.320389910 -0.3861860246 -0.29459327
## 352 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9123643571 -0.29459327
## 353 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 354 -0.34068756 0.82339697 2.37150860 -0.320389910 3.4476293880 -0.29459327
## 355 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 356 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 357 1.79753505 0.07902569 0.60458914 -0.320389910 -0.1388430947 -0.29459327
## 358 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 359 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 360 1.35074227 -0.28188159 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 361 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 362 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 363 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 364 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 365 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 366 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 367 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 368 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 369 -0.34068756 -0.28188159 -0.27887059 3.353823112 -0.3861860246 -0.29459327
## 370 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 371 0.55289801 -0.28188159 -0.27887059 0.003805357 -0.3861860246 -0.29459327
## 372 -0.34068756 0.86851038 -0.27887059 -0.320389910 0.4022195643 -0.29459327
## 373 -0.34068756 -0.28188159 1.22033380 -0.320389910 -0.3861860246 -0.29459327
## 374 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 375 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 376 -0.34068756 -0.28188159 -0.27887059 0.147892142 -0.3861860246 -0.29459327
## 377 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 378 -0.34068756 -0.28188159 -0.27887059 0.472087409 -0.3861860246 -0.29459327
## 379 2.65920686 -0.28188159 0.20301653 1.012412853 0.7732339591 -0.29459327
## 380 -0.34068756 -0.28188159 3.33528285 -0.320389910 -0.3861860246 -0.29459327
## 381 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 5.67969922
## 382 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 383 -0.34068756 5.42496485 3.09433929 4.218343823 1.5616395479 6.48703604
## 384 -0.34068756 1.74822189 -0.27887059 -0.320389910 2.3964219362 4.54942767
## 385 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 386 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 387 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 388 -0.34068756 2.15424258 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 389 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 390 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 391 1.70179374 0.43993298 1.43450586 -0.320389910 -0.3861860246 -0.29459327
## 392 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 393 0.39332916 0.23692263 3.49591189 0.508109105 0.3403838318 0.94332319
## 394 0.99969079 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 395 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 396 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 397 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 398 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 399 -0.05346363 -0.28188159 0.47073160 -0.320389910 -0.3861860246 -0.29459327
## 400 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1852198941 -0.29459327
## 401 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 402 -0.24494625 -0.28188159 -0.19855607 -0.212324821 -0.2161377603 -0.29459327
## 403 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 404 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5877267617 1.37390283
## 405 1.41456981 4.68059358 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 406 0.20184653 -0.10142795 -0.27887059 0.580152498 -0.2625145597 -0.29459327
## 407 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0978715545 -0.29459327
## 408 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 2.01977229
## 409 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 410 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 411 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 412 -0.34068756 -0.28188159 -0.27887059 2.129085438 1.1906251532 -0.29459327
## 413 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 414 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 415 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 416 -0.34068756 -0.28188159 -0.27887059 2.849519364 -0.3861860246 -0.29459327
## 417 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 418 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 419 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 420 -0.34068756 1.29708778 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 421 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 422 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 423 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5722678286 -0.29459327
## 424 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 425 0.61672555 -0.28188159 -0.27887059 -0.320389910 0.0775819689 1.32008038
## 426 1.57413866 0.68805674 0.41718859 2.165107134 0.4176784974 1.10479056
## 427 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 428 2.02093145 0.25947933 1.70222093 0.544130801 -0.0151716298 0.99714565
## 429 7.41435865 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 430 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 431 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 432 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 433 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 434 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 435 -0.34068756 -0.28188159 2.61245216 -0.320389910 -0.3861860246 -0.29459327
## 436 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 437 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 438 -0.34068756 -0.28188159 -0.27887059 3.822105163 -0.3861860246 -0.29459327
## 439 0.84012194 0.55271650 -0.27887059 -0.320389910 0.7577750259 -0.29459327
## 440 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 441 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 442 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 443 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 444 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 445 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 446 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7268571597 -0.29459327
## 447 -0.34068756 -0.28188159 1.16679079 -0.320389910 1.2833787519 -0.29459327
## 448 0.80820817 -0.28188159 -0.27887059 -0.320389910 1.8553592771 -0.29459327
## 449 1.70179374 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 450 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 451 -0.02154986 0.16925251 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 452 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 453 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 -0.29459327
## 454 0.52098424 -0.28188159 3.38882587 0.652195890 0.8814464909 1.15861301
## 455 2.37198292 -0.28188159 -0.27887059 -0.320389910 0.2630891663 -0.29459327
## 456 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 457 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 458 -0.05346363 -0.28188159 0.71167517 -0.320389910 -0.3861860246 -0.29459327
## 459 1.28691473 -0.28188159 -0.27887059 0.580152498 -0.3861860246 1.05096810
## 460 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.7007699460 -0.29459327
## 461 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 462 -0.18111871 -0.28188159 -0.19855607 -0.140281428 -0.3088913590 -0.29459327
## 463 -0.34068756 2.04145906 1.08647626 -0.320389910 0.4022195643 -0.29459327
## 464 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 465 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 466 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.7056005985 -0.29459327
## 467 0.42524293 -0.28188159 -0.27887059 -0.320389910 -0.0151716298 -0.29459327
## 468 -0.34068756 0.73317015 2.15733654 1.300586423 1.0205768889 -0.29459327
## 469 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 470 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.96594984
## 471 -0.34068756 -0.28188159 1.11324777 -0.320389910 -0.3861860246 -0.29459327
## 472 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 473 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 474 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 475 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 476 -0.30877379 -0.28188159 -0.27887059 -0.284368213 -0.1852198941 -0.13312590
## 477 0.48907047 1.50009813 0.41718859 -0.320389910 0.8350696915 5.35676449
## 478 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 479 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 480 -0.08537740 -0.10142795 -0.06469854 2.165107134 3.3394168562 -0.29459327
## 481 0.10610522 -0.21421148 -0.09147004 1.660803386 0.6341035610 1.26625792
## 482 -0.34068756 3.73321195 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 483 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.6650214272 7.02526059
## 484 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 485 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 486 1.51031112 0.82339697 0.60458914 2.057042045 0.6341035610 0.99714565
## 487 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 488 0.01036391 -0.03375783 -0.27887059 0.472087409 -0.2161377603 0.29745374
## 489 0.39332916 0.23692263 -0.27887059 -0.320389910 -0.0306305629 -0.29459327
## 490 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 491 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 492 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 493 1.66987997 0.41737627 0.55104612 -0.320389910 -0.3861860246 -0.29459327
## 494 -0.34068756 -0.28188159 0.92584722 -0.320389910 2.3964219362 -0.29459327
## 495 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 496 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 497 -0.34068756 6.34978977 3.65654094 4.974799445 1.8862771434 7.61730759
## 498 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.1394177013 1.53537020
## 499 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 500 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 501 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 502 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 503 0.55289801 -0.28188159 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 504 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.8196107584 -0.29459327

```

```

## 505 -0.34068756 -0.28188159 -0.27887059 0.400044016 -0.3861860246 -0.29459327
## 506 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 507 -0.08537740 -0.10142795 0.87230421 -0.032216339 -0.2625145597 -0.29459327
## 508 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 509 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 510 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 511 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1857945007 -0.29459327
## 512 -0.34068756 -0.28188159 0.01561599 -0.320389910 -0.3861860246 -0.29459327
## 513 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 514 -0.34068756 -0.28188159 0.79198969 -0.320389910 1.4843448824 -0.29459327
## 515 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 -0.29459327
## 516 -0.34068756 -0.28188159 -0.27887059 0.075848749 -0.0306305629 -0.29459327
## 517 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 518 0.01036391 -0.28188159 -0.27887059 -0.320389910 -0.2161377603 -0.29459327
## 519 0.64863932 -0.28188159 -0.17178456 0.472087409 -0.3861860246 -0.18694836
## 520 0.01036391 -0.28188159 -0.27887059 1.912955260 -0.3861860246 -0.29459327
## 521 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 522 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 523 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 524 -0.18111871 -0.28188159 -0.27887059 1.480694905 -0.3861860246 -0.29459327
## 525 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 526 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 527 -0.34068756 -0.28188159 0.92584722 -0.320389910 -0.3861860246 -0.29459327
## 528 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 529 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 530 2.18050030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 531 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 532 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 533 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 534 0.45715670 -0.28188159 -0.27887059 2.417259008 -0.3861860246 -0.29459327
## 535 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 536 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 537 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 538 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9742000896 -0.29459327
## 539 -0.34068756 1.22941766 0.60458914 0.868326068 0.1239587682 -0.29459327
## 540 1.41456981 -0.28188159 0.44396010 -0.320389910 -0.3861860246 2.66564175
## 541 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 542 -0.34068756 -0.28188159 -0.27887059 3.678018378 -0.3861860246 -0.29459327
## 543 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 544 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 545 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 546 -0.08537740 -0.28188159 -0.06469854 2.309193919 -0.3861860246 -0.29459327
## 547 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 548 -0.34068756 -0.28188159 1.91639298 -0.320389910 -0.3861860246 -0.29459327
## 549 0.42524293 -0.19165477 -0.17178456 0.544130801 -0.3861860246 -0.29459327
## 550 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 551 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 552 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 553 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 554 0.87203571 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 555 -0.34068756 1.29708778 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 556 2.21241407 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 557 -0.34068756 1.38731460 -0.27887059 -0.320389910 1.9171950096 3.68826839
## 558 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

## 559	-0.34068756	-0.28188159	-0.27887059	1.048434549	0.2012534338	-0.29459327
## 560	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 561	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 562	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 563	0.01036391	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	0.29745374
## 564	-0.34068756	-0.28188159	-0.27887059	-0.320389910	4.7616387028	-0.29459327
## 565	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 566	-0.34068756	1.90611882	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 567	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 568	0.45715670	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 569	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 570	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.3403838318	-0.29459327
## 571	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 572	-0.08537740	-0.10142795	0.84553270	-0.032216339	-0.2625145597	-0.29459327
## 573	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 574	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 575	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 576	-0.34068756	-0.28188159	0.14947352	-0.320389910	-0.3861860246	-0.29459327
## 577	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 578	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 579	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.8862771434	-0.29459327
## 580	-0.34068756	-0.28188159	3.28173984	-0.320389910	-0.3861860246	-0.29459327
## 581	-0.34068756	-0.28188159	-0.27887059	0.400044016	0.2476302331	-0.29459327
## 582	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 583	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 584	-0.34068756	-0.28188159	3.92425601	-0.320389910	2.0408664745	-0.29459327
## 585	-0.34068756	-0.28188159	-0.27887059	1.732846779	-0.3088913590	-0.29459327
## 586	-0.34068756	-0.28188159	-0.27887059	0.652195890	-0.3861860246	-0.29459327
## 587	-0.34068756	1.07152073	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 588	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 589	-0.34068756	-0.28188159	-0.27887059	5.551146585	-0.3861860246	-0.29459327
## 590	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 591	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 592	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 593	-0.34068756	-0.28188159	-0.27887059	1.084456246	-0.3861860246	-0.29459327
## 594	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 595	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 596	-0.34068756	-0.28188159	-0.27887059	5.767276763	-0.3861860246	2.28888456
## 597	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 598	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 599	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 600	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 601	-0.34068756	2.17679929	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 602	-0.34068756	-0.28188159	0.36364558	-0.320389910	-0.0151716298	0.99714565
## 603	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 604	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 605	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 606	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 607	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 608	-0.34068756	0.30459275	-0.27887059	1.552738297	-0.3861860246	1.10479056
## 609	-0.05346363	-0.28188159	0.68490366	0.003805357	-0.3861860246	-0.29459327
## 610	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 611	0.84012194	0.55271650	-0.27887059	-0.320389910	0.7577750259	-0.29459327
## 612	0.77629440	-0.16909807	-0.14501306	-0.140281428	-0.3088913590	-0.02548099

## 613	-0.34068756	1.22941766	0.60458914	0.868326068	0.1239587682	-0.29459327
## 614	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 615	-0.08537740	-0.10142795	0.84553270	-0.032216339	-0.2625145597	-0.29459327
## 616	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 617	-0.05346363	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 618	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 619	3.87193013	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 620	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 621	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 622	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.9123643571	-0.29459327
## 623	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.6031856948	-0.29459327
## 624	0.42524293	-0.28188159	-0.06469854	-0.320389910	0.3713016981	0.13598637
## 625	4.35063669	3.03395409	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 626	1.70179374	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 627	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 628	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 629	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.5925574142	-0.29459327
## 630	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 631	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 632	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 633	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 634	0.32950162	-0.28188159	-0.27887059	-0.320389910	-0.0615484292	-0.29459327
## 635	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	0.35127619
## 636	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 637	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 638	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 639	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 640	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 641	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 642	2.05284522	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 643	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 644	0.68055309	0.57527321	-0.27887059	-0.104259732	-0.3861860246	-0.29459327
## 645	-0.34068756	-0.28188159	5.18251683	-0.320389910	-0.3861860246	5.19529712
## 646	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 647	1.63796620	1.11663414	0.55104612	-0.320389910	2.5200934011	3.04239893
## 648	-0.34068756	-0.28188159	1.00616174	-0.320389910	2.6283059329	-0.29459327
## 649	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 650	-0.34068756	-0.28188159	-0.27887059	6.199537119	-0.3861860246	-0.29459327
## 651	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 652	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 653	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 654	-0.34068756	0.66550003	-0.27887059	-0.320389910	0.2630891663	-0.29459327
## 655	0.68055309	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 656	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 657	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 658	-0.34068756	-0.28188159	-0.27887059	0.075848749	0.6804803604	1.53537020
## 659	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.7577750259	1.69683756
## 660	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 661	-0.24494625	-0.28188159	0.20301653	1.624781690	0.5722678286	1.26625792
## 662	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 663	0.39332916	0.23692263	3.49591189	0.508109105	0.3403838318	0.94332319
## 664	-0.34068756	1.77077859	-0.27887059	-0.320389910	-0.3861860246	4.60325012
## 665	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 666	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 667	-0.34068756	0.03391228	-0.27887059	-0.320389910	0.2785480994	1.26625792
## 668	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 669	3.77618882	-0.28188159	1.43450586	-0.320389910	-0.3861860246	-0.29459327
## 670	2.14858653	-0.28188159	-0.27887059	-0.320389910	0.8196107584	-0.29459327
## 671	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.7471467453	-0.29459327
## 672	-0.34068756	-0.05631454	-0.27887059	0.400044016	0.5722678286	0.24363128
## 673	-0.34068756	-0.28188159	-0.27887059	-0.320389910	7.7452127941	-0.29459327
## 674	-0.34068756	0.03391228	-0.27887059	-0.320389910	0.2785480994	0.45892110
## 675	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 676	1.38265604	4.59036676	-0.27887059	-0.320389910	0.4485963636	-0.29459327
## 677	1.41456981	4.74826369	-0.27887059	-0.320389910	0.4640552967	-0.29459327
## 678	-0.34068756	0.10158240	-0.27887059	-0.320389910	0.4022195643	0.62038847
## 679	0.01036391	-0.28188159	1.30064832	2.237150527	4.0350688464	0.94332319
## 680	-0.34068756	-0.28188159	1.67544942	-0.320389910	-0.3861860246	-0.29459327
## 681	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 682	-0.34068756	-0.28188159	-0.27887059	3.930170252	-0.3861860246	-0.29459327
## 683	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0621230358	-0.29459327
## 684	-0.34068756	1.38731460	-0.27887059	-0.320389910	1.9171950096	3.68826839
## 685	3.87193013	0.71061344	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 686	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 687	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 688	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 689	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 690	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.7471467453	-0.29459327
## 691	0.45715670	-0.28188159	0.04238749	0.111870446	-0.3861860246	-0.29459327
## 692	-0.34068756	1.74822189	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 693	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 694	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 695	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0002873033	1.05096810
## 696	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 697	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	2.07359474
## 698	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 699	0.80820817	-0.28188159	1.67544942	-0.320389910	0.1703355676	1.64301511
## 700	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	1.10479056
## 701	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 702	2.81877571	0.46248968	0.60458914	-0.320389910	-0.3861860246	-0.29459327
## 703	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 704	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 705	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 706	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 707	-0.34068756	2.53770657	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 708	-0.34068756	-0.28188159	1.08647626	-0.320389910	0.4022195643	-0.29459327
## 709	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 710	0.01036391	-0.28188159	-0.27887059	-0.320389910	-0.0306305629	0.94332319
## 711	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 712	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 713	1.76562128	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 714	-0.34068756	1.07152073	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 715	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 716	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 717	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 718	-0.05346363	-0.07887124	-0.27887059	0.364022320	0.0621230358	1.80448247
## 719	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 720	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327

## 721	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	2.93475402
## 722	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 723	0.87203571	-0.28188159	-0.27887059	-0.320389910	0.2012534338	-0.29459327
## 724	-0.34068756	-0.28188159	-0.27887059	2.489302401	0.8196107584	-0.29459327
## 725	-0.34068756	-0.28188159	1.00616174	-0.320389910	2.6283059329	-0.29459327
## 726	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 727	0.68055309	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 728	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.5104320961	-0.29459327
## 729	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	1.10479056
## 730	-0.34068756	-0.28188159	-0.27887059	-0.320389910	3.5713008529	-0.29459327
## 731	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 732	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 733	-0.34068756	1.97378894	-0.27887059	-0.320389910	1.1597072869	-0.29459327
## 734	-0.34068756	-0.28188159	-0.27887059	1.228543031	0.2785480994	2.01977229
## 735	1.51031112	-0.12398466	0.09593051	2.057042045	1.5461806148	0.45892110
## 736	1.54222489	1.04896402	0.49750311	-0.320389910	0.0621230358	1.26625792
## 737	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.8862771434	-0.29459327
## 738	-0.34068756	-0.28188159	1.05970476	-0.320389910	0.3867606312	1.05096810
## 739	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 740	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 741	-0.34068756	-0.28188159	-0.27887059	-0.320389910	2.9684024614	-0.29459327
## 742	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 743	-0.34068756	-0.28188159	-0.27887059	3.353823112	0.0621230358	0.45892110
## 744	2.18050030	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 745	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.1084998351	-0.29459327
## 746	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 747	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 748	-0.34068756	2.89861386	-0.27887059	-0.320389910	-0.3861860246	2.23506211
## 749	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 750	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 751	0.01036391	-0.23676818	0.28333105	1.192521334	0.7732339591	0.94332319
## 752	-0.34068756	2.67304680	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 753	1.22308719	-0.28188159	1.03293325	-0.320389910	-0.3861860246	-0.29459327
## 754	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 755	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 756	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 757	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 758	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 759	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.5461806148	-0.29459327
## 760	-0.34068756	-0.28188159	-0.27887059	1.408651512	-0.3861860246	-0.29459327
## 761	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 762	1.70179374	0.43993298	0.57781763	-0.320389910	-0.3861860246	-0.29459327
## 763	-0.34068756	-0.28188159	8.07383959	-0.320389910	-0.3861860246	-0.29459327
## 764	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 765	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 766	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 767	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 768	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 769	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 770	0.58481178	0.37226286	0.49750311	-0.320389910	-0.3861860246	2.82710911
## 771	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 772	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.7268571597	-0.29459327
## 773	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 774	-0.34068756	2.08657247	-0.27887059	-0.320389910	1.2370019525	2.50417438



```

## 775 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3094659656 -0.29459327
## 776 0.48907047 -0.10142795 2.50536614 1.552738297 2.0254075414 1.10479056
## 777 -0.34068756 -0.28188159 -0.27887059 -0.320389910 16.7886886666 -0.29459327
## 778 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 779 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 780 0.20184653 -0.28188159 -0.27887059 0.904347764 -0.1233841616 -0.29459327
## 781 -0.34068756 -0.28188159 -0.27887059 0.832304372 1.0978715545 -0.29459327
## 782 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 783 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 784 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 785 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 786 3.74427505 -0.28188159 -0.27887059 2.453280705 0.4022195643 -0.29459327
## 787 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 788 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 789 -0.34068756 0.75572685 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 790 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 791 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 792 1.28691473 -0.28188159 -0.27887059 -0.320389910 0.0002873033 -0.29459327
## 793 0.99969079 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 794 -0.34068756 -0.28188159 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 795 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 796 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 797 -0.34068756 -0.28188159 -0.27887059 3.822105163 -0.3861860246 -0.29459327
## 798 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 799 3.23365472 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 800 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 801 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 802 18.42460944 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 803 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 804 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 805 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 806 0.26567407 -0.28188159 -0.27887059 0.003805357 0.2167123669 -0.29459327
## 807 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 808 -0.34068756 0.07902569 0.14947352 -0.320389910 -0.3861860246 -0.29459327
## 809 0.68055309 -0.28188159 1.46127736 -0.320389910 -0.3861860246 -0.29459327
## 810 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 811 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 812 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 813 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 814 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 815 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 816 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 817 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 818 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 819 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 820 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 821 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 822 2.43581046 -0.28188159 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 823 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 824 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 825 -0.34068756 0.86851038 1.08647626 -0.320389910 1.2060840863 -0.29459327
## 826 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 827 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 828 -0.34068756 3.28207785 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

## 829	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.7471467453	-0.29459327
## 830	-0.34068756	-0.28188159	1.94316449	-0.320389910	-0.3861860246	-0.29459327
## 831	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.4485963636	-0.29459327
## 832	-0.08537740	-0.10142795	0.84553270	-0.032216339	-0.2625145597	-0.29459327
## 833	-0.02154986	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 834	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 835	0.80820817	2.17679929	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 836	0.52098424	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 837	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 838	-0.11729117	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	0.45892110
## 839	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 840	1.89327637	0.50760309	0.65813215	-0.320389910	-0.3861860246	1.58919265
## 841	-0.34068756	1.77077859	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 842	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 843	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 844	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 845	0.23376030	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 846	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 847	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 848	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 849	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 850	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 851	3.74427505	-0.28188159	1.43450586	-0.320389910	-0.3861860246	-0.29459327
## 852	-0.02154986	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 853	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 854	-0.34068756	-0.28188159	0.49750311	-0.320389910	-0.3861860246	1.26625792
## 855	-0.34068756	-0.28188159	-0.27887059	2.057042045	-0.3861860246	3.25768875
## 856	0.87203571	0.57527321	0.73844667	-0.320389910	-0.3861860246	1.75066002
## 857	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 858	1.38265604	4.63548017	-0.27887059	-0.320389910	0.4485963636	-0.29459327
## 859	0.55289801	-0.07887124	-0.03792703	1.048434549	-0.0924662954	-0.29459327
## 860	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 861	2.18050030	0.82339697	-0.27887059	2.885541060	0.0621230358	1.26625792
## 862	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 863	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 864	-0.34068756	-0.28188159	12.25019468	-0.320389910	-0.3861860246	-0.29459327
## 865	2.08475899	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 866	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 867	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 868	-0.34068756	-0.28188159	-0.27887059	-0.320389910	5.3027013619	-0.29459327
## 869	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 870	-0.34068756	0.28203604	-0.27887059	-0.320389910	-0.3861860246	2.39652947
## 871	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	4.17267048
## 872	-0.34068756	-0.28188159	-0.27887059	0.075848749	-0.0306305629	-0.29459327
## 873	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 874	-0.34068756	-0.28188159	-0.27887059	0.147892142	-0.3861860246	0.40509865
## 875	0.16993276	-0.10142795	-0.27887059	0.544130801	-0.2625145597	-0.29459327
## 876	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0157462364	-0.29459327
## 877	-0.34068756	-0.28188159	-0.06469854	-0.320389910	-0.3861860246	-0.29459327
## 878	0.99969079	0.66550003	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 879	-0.34068756	-0.28188159	-0.27887059	0.436065712	-0.3861860246	-0.29459327
## 880	1.63796620	-0.28188159	1.38096284	1.912955260	1.0514947551	-0.29459327
## 881	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 882	-0.34068756	0.10158240	-0.27887059	-0.320389910	0.4022195643	0.62038847

```

## 883 3.77618882 -0.28188159 1.43450586 -0.320389910 -0.3861860246 -0.29459327
## 884 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 885 -0.08537740 -0.10142795 0.87230421 -0.032216339 -0.2625145597 -0.29459327
## 886 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.6321696098 -0.29459327
## 887 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 888 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 889 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 890 -0.34068756 0.07902569 -0.27887059 -0.320389910 0.3713016981 0.56656601
## 891 0.84012194 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 892 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 893 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 894 -0.34068756 -0.28188159 0.95261873 -0.320389910 -0.3861860246 -0.29459327
## 895 1.57413866 1.07152073 -0.27887059 1.840911868 1.8553592771 0.35127619
## 896 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 897 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 898 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 899 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 900 1.03160456 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 901 2.14858653 0.82339697 -0.27887059 2.489302401 -0.0924662954 1.26625792
## 902 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 903 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 904 0.36141539 -0.03375783 -0.27887059 0.075848749 -0.0460894961 -0.29459327
## 905 1.22308719 -0.28188159 1.03293325 -0.320389910 -0.3861860246 -0.29459327
## 906 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 907 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 908 -0.34068756 -0.28188159 1.16679079 -0.320389910 0.0312051695 -0.29459327
## 909 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 910 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 911 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 912 3.01025833 0.89106708 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 913 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 914 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 915 1.38265604 3.39486137 -0.27887059 -0.320389910 -0.3861860246 2.61181929
## 916 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 917 -0.34068756 1.38731460 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 918 0.01036391 -0.28188159 -0.09147004 1.768868475 0.5722678286 1.53537020
## 919 1.03160456 0.68805674 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 920 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 921 -0.34068756 -0.28188159 1.38096284 -0.320389910 -0.3861860246 -0.29459327
## 922 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 923 -0.34068756 5.49263497 3.14788230 4.290387215 1.5925574142 6.59468095
## 924 -0.34068756 -0.28188159 6.09274807 8.252773807 3.2930400569 -0.29459327
## 925 0.36141539 2.71816021 -0.27887059 -0.320389910 -0.0460894961 2.07359474
## 926 -0.34068756 -0.28188159 1.51482038 -0.320389910 0.6495624941 -0.29459327
## 927 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2167123669 -0.29459327
## 928 0.45715670 -0.28188159 1.05970476 -0.320389910 -0.3861860246 -0.29459327
## 929 1.28691473 -0.28188159 -0.27887059 -0.320389910 0.0002873033 -0.29459327
## 930 2.62729309 -0.28188159 2.21087956 -0.320389910 -0.3861860246 -0.29459327
## 931 2.18050030 0.82339697 -0.27887059 2.885541060 0.0621230358 1.26625792
## 932 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 933 1.19117342 -0.28188159 -0.27887059 0.544130801 -0.3861860246 2.28888456
## 934 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 935 -0.34068756 0.48504639 -0.27887059 -0.320389910 0.1394177013 -0.29459327
## 936 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

## 937	0.64863932	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 938	-0.34068756	-0.28188159	0.68490366	-0.320389910	-0.2006788272	-0.29459327
## 939	-0.18111871	-0.28188159	0.63136065	-0.320389910	-0.3861860246	0.29745374
## 940	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 941	-0.34068756	-0.28188159	-0.27887059	4.434474000	1.9944896752	-0.29459327
## 942	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 943	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 944	-0.34068756	0.48504639	-0.27887059	-0.320389910	0.1394177013	-0.29459327
## 945	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 946	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 947	-0.05346363	0.14669581	-0.27887059	-0.320389910	-0.2470556266	0.18980883
## 948	1.09543211	0.73317015	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 949	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 950	-0.34068756	2.37980964	1.30064832	1.804890171	1.4379680830	-0.29459327
## 951	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 952	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.8399003440	-0.29459327
## 953	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 954	-0.34068756	-0.28188159	1.14001928	-0.320389910	-0.3861860246	-0.29459327
## 955	-0.05346363	-0.07887124	-0.27887059	0.724239283	-0.2470556266	2.28888456
## 956	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 957	9.04196094	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 958	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.7577750259	-0.29459327
## 959	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 960	0.13801899	-0.28188159	-0.27887059	0.039827053	0.7732339591	1.58919265
## 961	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 962	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 963	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.0621230358	-0.29459327
## 964	-0.34068756	0.86851038	1.08647626	-0.320389910	1.2060840863	-0.29459327
## 965	5.65910128	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 966	0.29758784	-0.28188159	0.44396010	0.652195890	1.1133304876	1.91212738
## 967	-0.34068756	2.78583033	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 968	-0.34068756	0.07902569	0.14947352	-0.320389910	-0.3861860246	-0.29459327
## 969	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 970	-0.34068756	-0.28188159	-0.27887059	-0.320389910	0.3558427649	-0.29459327
## 971	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 972	1.66987997	-0.28188159	3.95102751	0.796282675	0.5877267617	-0.29459327
## 973	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	2.82710911
## 974	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 975	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 976	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 977	-0.34068756	-0.28188159	2.61245216	-0.320389910	-0.3861860246	-0.29459327
## 978	-0.34068756	-0.28188159	-0.27887059	-0.320389910	1.3452144843	-0.29459327
## 979	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 980	-0.34068756	1.18430425	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 981	0.48907047	-0.28188159	0.06915900	1.084456246	-0.1852198941	0.40509865
## 982	-0.34068756	2.04145906	2.47859463	-0.320389910	1.2060840863	-0.29459327
## 983	-0.18111871	-0.28188159	-0.27887059	1.408651512	-0.3861860246	-0.29459327
## 984	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 985	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 986	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 987	-0.05346363	0.14669581	-0.27887059	-0.320389910	-0.2470556266	0.18980883
## 988	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.3861860246	-0.29459327
## 989	-0.34068756	-0.28188159	-0.27887059	4.290387215	-0.3861860246	-0.29459327
## 990	-0.34068756	-0.28188159	-0.27887059	-0.320389910	-0.0460894961	2.12741720

```

## 991 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 992 -0.34068756 -0.28188159 3.17465381 -0.320389910 0.2785480994 -0.29459327
## 993 0.20184653 -0.28188159 -0.27887059 2.381237312 -0.0306305629 1.53537020
## 994 -0.34068756 -0.28188159 1.22033380 -0.320389910 -0.3861860246 -0.29459327
## 995 0.20184653 0.10158240 -0.27887059 -0.320389910 1.5307216817 0.62038847
## 996 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 997 -0.34068756 -0.28188159 0.71167517 1.012412853 2.5200934011 1.69683756
## 998 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 999 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1000 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1001 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 2.01977229
## 1002 -0.34068756 -0.28188159 0.92584722 -0.320389910 2.3964219362 -0.29459327
## 1003 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6080163473 -0.29459327
## 1004 -0.34068756 -0.28188159 -0.27887059 5.262973015 -0.3861860246 -0.29459327
## 1005 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1006 -0.34068756 -0.28188159 -0.27887059 3.029627845 -0.3861860246 -0.29459327
## 1007 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1008 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1009 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.8505286246 -0.29459327
## 1010 1.66987997 -0.28188159 3.95102751 0.796282675 0.5877267617 -0.29459327
## 1011 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1012 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1013 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1014 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1015 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1016 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1017 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1018 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5877267617 -0.29459327
## 1019 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1020 -0.34068756 0.01135558 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 1021 -0.02154986 -0.28188159 -0.27887059 1.192521334 0.4176784974 0.83567828
## 1022 0.39332916 -0.28188159 0.97939024 0.508109105 -0.0306305629 0.94332319
## 1023 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1024 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1025 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1026 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7732339591 -0.29459327
## 1027 -0.34068756 -0.28188159 0.06915900 -0.320389910 -0.1852198941 -0.29459327
## 1028 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1029 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1030 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1031 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1032 -0.34068756 2.67304680 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1033 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1034 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1035 -0.34068756 -0.28188159 -0.27887059 1.732846779 -0.3088913590 -0.29459327
## 1036 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1037 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1038 -0.34068756 -0.28188159 -0.27887059 5.551146585 -0.3861860246 -0.29459327
## 1039 0.16993276 -0.28188159 0.14947352 0.255957231 -0.2625145597 0.56656601
## 1040 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1041 1.28691473 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.45035193
## 1042 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1043 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1044 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1045 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1046 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1047 -0.34068756 -0.28188159 0.04238749 -0.320389910 -0.3861860246 -0.29459327
## 1048 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1049 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1050 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1051 -0.34068756 -0.28188159 2.58568066 -0.320389910 -0.3861860246 -0.29459327
## 1052 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1053 2.40389669 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1054 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1055 -0.34068756 2.15424258 -0.27887059 -0.320389910 0.4485963636 2.61181929
## 1056 0.26567407 0.14669581 -0.27887059 3.101671238 0.2012534338 0.72803337
## 1057 0.74438063 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1058 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1059 1.44648358 4.79337710 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1060 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1061 -0.08537740 -0.10142795 0.84553270 -0.032216339 -0.2625145597 -0.29459327
## 1062 -0.34068756 -0.28188159 0.57781763 0.832304372 0.6031856948 -0.29459327
## 1063 0.07419145 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1064 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1065 -0.34068756 -0.28188159 -0.27887059 2.633389186 -0.3861860246 -0.29459327
## 1066 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1067 -0.34068756 0.07902569 -0.27887059 2.021020349 -0.1388430947 0.56656601
## 1068 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1069 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 1070 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1071 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1072 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1073 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1074 -0.34068756 -0.05631454 -0.01115552 -0.320389910 -0.3861860246 0.24363128
## 1075 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1076 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1077 -0.34068756 -0.28188159 0.17624503 0.291978927 -0.1233841616 -0.29459327
## 1078 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1079 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6495624941 -0.29459327
## 1080 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1081 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6495624941 -0.29459327
## 1082 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1083 1.47839735 4.86104722 -0.27887059 -0.320389910 0.4949731630 -0.29459327
## 1084 1.41456981 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.66564175
## 1085 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.6437648660 -0.29459327
## 1086 1.28691473 -0.28188159 1.08647626 0.291978927 -0.1233841616 0.62038847
## 1087 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1088 -0.24494625 -0.28188159 0.65813215 1.768868475 0.6341035610 1.37390283
## 1089 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1090 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1091 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1092 -0.34068756 0.03391228 -0.27887059 1.732846779 -0.1697609610 0.45892110
## 1093 -0.18111871 -0.28188159 -0.27887059 1.408651512 -0.3861860246 -0.29459327
## 1094 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1095 0.29758784 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 1096 1.47839735 -0.28188159 1.24710531 3.822105163 1.6853110129 -0.29459327
## 1097 -0.34068756 1.59032495 -0.27887059 0.400044016 1.2215430194 -0.29459327
## 1098 -0.34068756 -0.28188159 -0.27887059 3.317801415 0.4795142299 0.29745374

```

```

## 1099 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1100 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 1101 -0.34068756 1.34220119 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1102 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5258910292 1.80448247
## 1103 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1104 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1105 -0.05346363 -0.07887124 -0.27887059 2.525324097 -0.3861860246 -0.07930345
## 1106 -0.34068756 1.02640732 -0.27887059 -0.320389910 1.4070502168 -0.29459327
## 1107 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1108 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1109 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1110 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1111 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1112 -0.34068756 -0.28188159 7.85966753 -0.320389910 -0.3861860246 -0.29459327
## 1113 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1114 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1115 -0.34068756 -0.28188159 8.63604124 11.674834954 -0.3861860246 -0.29459327
## 1116 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1117 -0.34068756 -0.28188159 10.34941768 -0.320389910 0.6341035610 -0.29459327
## 1118 -0.34068756 0.10158240 0.17624503 -0.320389910 -0.3861860246 -0.29459327
## 1119 1.82944883 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1120 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9123643571 -0.29459327
## 1121 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 1122 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1123 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5722678286 1.37390283
## 1124 -0.34068756 -0.28188159 -0.27887059 0.652195890 -0.3861860246 -0.29459327
## 1125 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1126 -0.34068756 -0.28188159 -0.27887059 2.129085438 1.1906251532 -0.29459327
## 1127 -0.34068756 -0.28188159 -0.27887059 0.508109105 -0.3861860246 -0.29459327
## 1128 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1129 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1130 0.48907047 -0.28188159 -0.27887059 0.616174194 -0.3861860246 -0.29459327
## 1131 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1132 -0.34068756 -0.28188159 -0.27887059 3.065649541 -0.3861860246 -0.29459327
## 1133 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1134 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1135 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7886928922 -0.29459327
## 1136 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1137 1.47839735 -0.28188159 1.24710531 3.822105163 1.3915912837 -0.29459327
## 1138 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1139 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6959392935 -0.29459327
## 1140 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1141 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1142 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1143 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1144 -0.34068756 2.24446940 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1145 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1146 0.45715670 -0.28188159 -0.27887059 -0.320389910 0.4022195643 -0.29459327
## 1147 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1148 -0.34068756 -0.28188159 4.48645765 -0.320389910 -0.3861860246 -0.29459327
## 1149 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1150 -0.34068756 -0.28188159 2.61245216 -0.320389910 -0.3861860246 -0.29459327
## 1151 1.22308719 -0.28188159 3.25496833 0.255957231 7.5287877305 -0.29459327
## 1152 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1153 1.15925965 -0.28188159 -0.27887059 0.508109105 -0.0306305629 -0.29459327
## 1154 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1155 -0.34068756 -0.28188159 1.16679079 -0.320389910 1.2833787519 -0.29459327
## 1156 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 1157 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1158 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1159 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6341035610 -0.29459327
## 1160 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1161 0.52098424 -0.28188159 -0.27887059 -0.320389910 0.0312051695 -0.29459327
## 1162 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1163 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1164 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1165 -0.34068756 -0.28188159 -0.27887059 -0.320389910 5.4418317599 -0.29459327
## 1166 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1167 -0.34068756 0.07902569 -0.27887059 2.021020349 -0.1388430947 0.56656601
## 1168 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.2466632575 -0.29459327
## 1169 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1170 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1171 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1172 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1173 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1174 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1175 -0.34068756 0.03391228 0.09593051 -0.320389910 -0.3861860246 -0.29459327
## 1176 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1177 -0.34068756 -0.28188159 -0.27887059 7.928578540 -0.3861860246 -0.29459327
## 1178 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1179 -0.34068756 -0.28188159 -0.27887059 0.544130801 -0.3861860246 -0.29459327
## 1180 -0.34068756 0.75572685 4.70062971 -0.320389910 1.0514947551 2.18123965
## 1181 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4022195643 5.19529712
## 1182 11.05252848 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1183 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1184 1.15925965 0.23692263 0.65813215 -0.320389910 -0.2161377603 0.29745374
## 1185 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1186 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1187 -0.34068756 3.39486137 -0.27887059 -0.320389910 2.1336200732 8.47846687
## 1188 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1189 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.7162288791 -0.29459327
## 1190 0.07419145 -0.28188159 0.44396010 -0.320389910 -0.3861860246 -0.29459327
## 1191 -0.34068756 1.92867553 2.34473709 0.832304372 2.3809630031 -0.29459327
## 1192 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1193 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1194 -0.34068756 -0.28188159 1.46127736 0.147892142 -0.3861860246 -0.29459327
## 1195 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1196 0.10610522 0.03391228 -0.27887059 -0.320389910 4.2514939100 0.45892110
## 1197 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1198 0.71246686 1.22941766 -0.27887059 0.868326068 -0.3861860246 0.56656601
## 1199 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1200 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1201 -0.34068756 -0.28188159 0.36364558 -0.320389910 0.3713016981 -0.29459327
## 1202 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1203 -0.34068756 -0.28188159 3.36205436 -0.320389910 -0.3861860246 3.36533366
## 1204 1.22308719 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1205 1.03160456 -0.10142795 2.71953819 1.228543031 1.8862771434 1.10479056
## 1206 0.20184653 -0.16909807 -0.27887059 -0.320389910 -0.3861860246 3.20386630

```



```

## 1207 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1208 -0.05346363 -0.28188159 0.47073160 -0.320389910 -0.3861860246 -0.29459327
## 1209 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1210 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1211 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1212 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1213 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1214 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1215 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1216 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1217 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1218 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1219 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 3.15004384
## 1220 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1221 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1222 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1223 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1224 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 1225 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1226 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.2002864582 -0.29459327
## 1227 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1228 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1229 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1230 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1231 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6080163473 -0.29459327
## 1232 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1233 -0.34068756 -0.28188159 -0.27887059 0.796282675 -0.3861860246 1.37390283
## 1234 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1548766344 -0.29459327
## 1235 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1236 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1237 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7886928922 -0.29459327
## 1238 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 1239 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1240 -0.34068756 0.03391228 -0.27887059 -0.320389910 0.2785480994 0.45892110
## 1241 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1242 1.57413866 1.07152073 -0.27887059 1.840911868 1.8553592771 0.35127619
## 1243 -0.34068756 -0.28188159 0.63136065 -0.320389910 -0.3861860246 1.53537020
## 1244 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1245 -0.34068756 -0.28188159 -0.27887059 3.786083467 -0.3861860246 -0.29459327
## 1246 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1247 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1248 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1249 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1250 3.04217210 2.10912917 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1251 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1252 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1253 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1254 -0.34068756 -0.28188159 1.08647626 -0.320389910 0.4022195643 -0.29459327
## 1255 0.10610522 -0.21421148 -0.09147004 1.660803386 0.6341035610 1.26625792
## 1256 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1257 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7423160928 -0.29459327
## 1258 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1259 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1260 0.48907047 1.50009813 0.41718859 -0.320389910 0.8350696915 5.35676449

```

```

## 1261 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1262 -0.34068756 -0.28188159 -0.27887059 5.479103193 -0.3861860246 -0.29459327
## 1263 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1264 18.42460944 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1265 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.6389342135 -0.29459327
## 1266 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1267 2.21241407 0.84595367 -0.27887059 2.561345793 -0.2315966934 1.32008038
## 1268 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.1336200732 -0.29459327
## 1269 -0.34068756 1.38731460 -0.27887059 2.345215616 -0.3861860246 -0.29459327
## 1270 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1271 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 1272 -0.34068756 0.03391228 -0.27887059 -0.320389910 -0.3861860246 0.45892110
## 1273 -0.34068756 2.83094374 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1274 -0.34068756 2.13168588 -0.27887059 -0.320389910 0.4331374305 -0.29459327
## 1275 0.01036391 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1276 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.66564175
## 1277 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1278 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 1279 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.9684024614 -0.29459327
## 1280 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1281 0.74438063 -0.16909807 -0.14501306 -0.140281428 -0.3088913590 -0.02548099
## 1282 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1283 0.84012194 -0.28188159 0.71167517 2.345215616 1.3297555512 1.69683756
## 1284 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1285 -0.34068756 -0.28188159 -0.27887059 -0.068238036 -0.3861860246 -0.29459327
## 1286 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1287 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1288 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1289 1.66987997 0.41737627 0.55104612 -0.320389910 -0.3861860246 -0.29459327
## 1290 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1291 1.22308719 -0.28188159 3.25496833 0.255957231 7.5287877305 -0.29459327
## 1292 1.73370751 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1293 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1294 -0.34068756 2.94372727 -0.27887059 -0.320389910 -0.3861860246 2.23506211
## 1295 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1296 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1297 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1298 1.25500096 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1299 -0.14920494 -0.28188159 -0.27887059 1.696825082 -0.3861860246 -0.29459327
## 1300 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1301 -0.34068756 0.21436592 0.31010256 2.921562756 0.6650214272 2.12741720
## 1302 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1303 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1304 2.85068948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1305 1.63796620 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1306 3.48896489 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1307 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1308 -0.34068756 0.19180922 -0.27887059 -0.320389910 -0.0615484292 -0.29459327
## 1309 1.06351834 -0.28188159 0.89907572 -0.320389910 -0.3861860246 -0.29459327
## 1310 -0.05346363 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1311 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1312 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1313 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1314 0.16993276 -0.28188159 -0.06469854 -0.032216339 -0.3861860246 0.13598637

```

```

## 1315 -0.34068756 0.07902569 -0.27887059 -0.320389910 0.3713016981 0.56656601
## 1316 -0.34068756 1.74822189 9.43918645 -0.320389910 2.4118808693 -0.29459327
## 1317 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1318 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1319 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1320 0.23376030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1321 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1322 -0.34068756 2.49259316 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1323 2.27624161 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1324 -0.08537740 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.13598637
## 1325 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.61181929
## 1326 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1327 -0.34068756 -0.28188159 -0.27887059 4.002213645 7.0495608039 1.85830493
## 1328 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1329 -0.34068756 -0.28188159 -0.27887059 -0.068238036 -0.3861860246 -0.29459327
## 1330 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1331 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1332 0.36141539 0.21436592 -0.27887059 -0.320389910 -0.0460894961 -0.29459327
## 1333 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1334 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1335 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1336 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1337 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1338 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1339 -0.34068756 1.07152073 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1340 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1341 0.45715670 -0.10142795 0.60458914 -0.320389910 -0.1388430947 0.13598637
## 1342 0.48907047 -0.28188159 1.11324777 -0.320389910 -0.3861860246 -0.29459327
## 1343 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1344 0.48907047 -0.28188159 -0.27887059 -0.320389910 0.0157462364 -0.29459327
## 1345 -0.34068756 -0.28188159 0.28333105 -0.320389910 -0.3861860246 -0.29459327
## 1346 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1347 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1348 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.9587411564 -0.29459327
## 1349 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.5104320961 -0.29459327
## 1350 0.80820817 -0.14654136 -0.11824155 -0.104259732 -0.2006788272 0.02834146
## 1351 1.92519014 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1352 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1353 -0.34068756 -0.28188159 3.46914039 0.940369460 0.1548766344 -0.29459327
## 1354 1.57413866 -0.28188159 -0.27887059 1.840911868 -0.3861860246 -0.29459327
## 1355 -0.34068756 -0.28188159 0.65813215 -0.320389910 -0.3861860246 -0.29459327
## 1356 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1357 -0.34068756 -0.28188159 0.12270201 0.219935535 -0.3861860246 0.51274356
## 1358 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7268571597 -0.29459327
## 1359 0.99969079 0.66550003 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1360 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1361 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0514947551 -0.29459327
## 1362 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1363 -0.34068756 -0.28188159 -0.27887059 3.894148556 0.0621230358 0.45892110
## 1364 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1365 0.20184653 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1366 -0.34068756 1.65799506 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1367 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1368 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1369 3.68044751 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1370 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1371 1.57413866 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1372 -0.34068756 -0.28188159 -0.27887059 1.084456246 -0.3861860246 -0.29459327
## 1373 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1374 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1375 -0.18111871 -0.28188159 -0.14501306 1.372629816 -0.3861860246 -0.29459327
## 1376 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1377 -0.34068756 -0.28188159 1.19356229 -0.320389910 -0.2470556266 -0.29459327
## 1378 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1379 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1380 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1381 0.68055309 -0.28188159 0.14947352 -0.320389910 0.6186446279 -0.29459327
## 1382 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1383 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1384 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1385 -0.34068756 -0.28188159 -0.27887059 0.544130801 1.6543931466 3.58062348
## 1386 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 1387 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1388 -0.34068756 -0.28188159 0.28333105 -0.320389910 -0.0615484292 -0.29459327
## 1389 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1390 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 3.15004384
## 1391 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1392 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1393 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1394 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1395 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1396 0.13801899 -0.28188159 -0.09147004 -0.068238036 -0.3861860246 -0.29459327
## 1397 -0.34068756 -0.28188159 1.24710531 -0.320389910 -0.3861860246 -0.29459327
## 1398 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1399 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1400 -0.34068756 -0.28188159 -0.27887059 0.868326068 -0.3861860246 -0.29459327
## 1401 -0.24494625 -0.28188159 -0.27887059 1.120477942 -0.3861860246 -0.29459327
## 1402 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6804803604 -0.29459327
## 1403 -0.34068756 1.52265483 -0.27887059 -0.320389910 0.8505286246 -0.29459327
## 1404 -0.34068756 1.27453107 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1405 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1406 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2476302331 -0.29459327
## 1407 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1408 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 0.72803337
## 1409 -0.34068756 2.71816021 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1410 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1411 1.19117342 -0.28188159 -0.27887059 1.408651512 -0.3861860246 2.28888456
## 1412 0.39332916 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1413 -0.34068756 -0.28188159 -0.27887059 -0.320389910 6.9722661383 -0.29459327
## 1414 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1415 -0.34068756 -0.28188159 -0.27887059 2.381237312 5.4109138937 -0.29459327
## 1416 0.36141539 0.71061344 0.89907572 0.472087409 4.0659867126 -0.29459327
## 1417 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1418 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1419 -0.34068756 0.71061344 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1420 -0.34068756 16.11684317 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1421 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1422 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1423 -0.18111871 -0.28188159 -0.14501306 0.039827053 -0.3861860246 -0.29459327
## 1424 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1425 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1426 -0.34068756 0.03391228 -0.27887059 -0.320389910 -0.3861860246 0.45892110
## 1427 1.41456981 4.68059358 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 1428 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1429 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.2315966934 -0.02548099
## 1430 0.01036391 -0.23676818 0.28333105 1.192521334 0.7732339591 0.94332319
## 1431 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1432 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4640552967 -0.29459327
## 1433 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1434 0.90394948 0.59782991 0.76521818 -0.320389910 -0.3861860246 1.80448247
## 1435 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1436 0.61672555 -0.28188159 -0.27887059 -0.320389910 0.0775819689 1.32008038
## 1437 0.48907047 -0.10142795 2.55890915 1.588759994 2.0717843407 1.10479056
## 1438 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1439 -0.34068756 -0.28188159 -0.27887059 7.928578540 -0.3861860246 -0.29459327
## 1440 3.48896489 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1441 -0.34068756 -0.28188159 0.84553270 -0.320389910 -0.3861860246 -0.29459327
## 1442 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1443 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1444 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1445 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1446 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1447 -0.34068756 5.15428439 0.63136065 -0.320389910 2.2727504712 10.79283242
## 1448 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1449 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1450 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1451 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1452 -0.05346363 -0.28188159 0.20301653 0.003805357 -0.3861860246 -0.29459327
## 1453 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 1454 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1455 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1456 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1457 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1458 -0.02154986 -0.28188159 -0.27887059 -0.320389910 -0.3088913590 -0.29459327
## 1459 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1460 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1461 -0.34068756 0.34970616 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1462 -0.08537740 -0.10142795 0.84553270 -0.032216339 -0.2625145597 -0.29459327
## 1463 -0.34068756 0.82339697 -0.27887059 -0.320389910 1.1287894207 -0.29459327
## 1464 -0.34068756 -0.28188159 1.11324777 -0.320389910 -0.1233841616 0.62038847
## 1465 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3558427649 -0.29459327
## 1466 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7113982266 -0.29459327
## 1467 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1468 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1469 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1470 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1471 1.73370751 0.43993298 0.57781763 -0.320389910 -0.3861860246 -0.29459327
## 1472 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1473 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1474 -0.34068756 2.06401576 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1475 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1476 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1477 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1478 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1479 -0.34068756 -0.28188159 6.09274807 8.252773807 3.2930400569 -0.29459327
## 1480 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1481 0.36141539 2.71816021 -0.27887059 -0.320389910 -0.0460894961 2.07359474
## 1482 1.44648358 0.98129391 -0.27887059 -0.320389910 0.4795142299 -0.29459327
## 1483 -0.34068756 9.95886262 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1484 -0.34068756 2.49259316 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1485 0.80820817 -0.14654136 -0.11824155 -0.104259732 -0.2006788272 0.02834146
## 1486 0.16993276 -0.28188159 -0.14501306 0.940369460 -0.1388430947 0.99714565
## 1487 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1488 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1489 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1490 -0.05346363 0.14669581 -0.27887059 -0.320389910 -0.2470556266 0.18980883
## 1491 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1492 -0.34068756 4.72570699 5.66440396 -0.320389910 -0.3861860246 -0.29459327
## 1493 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1494 1.47839735 4.86104722 -0.27887059 -0.320389910 0.4949731630 -0.29459327
## 1495 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1496 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1497 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1498 -0.34068756 -0.05631454 -0.01115552 -0.320389910 -0.3861860246 0.24363128
## 1499 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1500 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.5770984811 -0.29459327
## 1501 3.23365472 -0.28188159 -0.27887059 -0.320389910 1.3452144843 -0.29459327
## 1502 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1503 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1504 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1505 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0930409020 -0.29459327
## 1506 2.24432784 -0.28188159 7.69903849 1.624781690 0.8659875577 1.15861301
## 1507 -0.34068756 -0.28188159 0.97939024 -0.320389910 2.5200934011 -0.29459327
## 1508 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1906251532 -0.29459327
## 1509 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6804803604 -0.29459327
## 1510 1.06351834 0.71061344 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1511 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1512 -0.34068756 1.25197437 -0.27887059 -0.320389910 0.6650214272 7.02526059
## 1513 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1514 1.76562128 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1515 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1516 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1517 0.84012194 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1518 -0.34068756 -0.28188159 0.84553270 -0.320389910 -0.3861860246 -0.29459327
## 1519 -0.34068756 0.57527321 -0.27887059 -0.320389910 1.3761323506 -0.29459327
## 1520 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1521 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.37390283
## 1522 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1523 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1524 -0.34068756 -0.28188159 -0.27887059 2.381237312 -0.3861860246 -0.29459327
## 1525 2.56346554 -0.28188159 0.52427462 -0.320389910 -0.3861860246 -0.29459327
## 1526 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1527 1.51031112 -0.28188159 1.27387681 1.768868475 0.8041518253 -0.29459327
## 1528 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.0514947551 -0.29459327
## 1529 1.92519014 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1530 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.4640552967 -0.29459327

```

```

## 1531 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1532 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2940070325 -0.29459327
## 1533 0.93586325 -0.28188159 -0.27887059 -0.320389910 0.8659875577 -0.29459327
## 1534 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1535 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1536 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.2833787519 -0.29459327
## 1537 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1538 -0.34068756 -0.28188159 -0.14501306 -0.320389910 0.1548766344 -0.29459327
## 1539 -0.34068756 4.95127404 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1540 -0.34068756 -0.28188159 3.06756778 -0.320389910 -0.3861860246 -0.29459327
## 1541 -0.34068756 -0.28188159 1.08647626 -0.320389910 -0.3861860246 -0.29459327
## 1542 -0.34068756 0.21436592 0.31010256 2.921562756 0.6650214272 2.12741720
## 1543 -0.34068756 3.03395409 -0.27887059 -0.320389910 1.8862771434 -0.29459327
## 1544 -0.05346363 -0.28188159 -0.03792703 -0.320389910 -0.3861860246 0.18980883
## 1545 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1546 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1547 0.68055309 -0.28188159 1.46127736 -0.320389910 -0.3861860246 -0.29459327
## 1548 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.1239587682 -0.29459327
## 1549 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1550 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1551 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1552 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1553 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1554 -0.34068756 3.91366560 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1555 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0002873033 1.05096810
## 1556 -0.34068756 1.38731460 -0.27887059 -0.320389910 -0.3861860246 3.68826839
## 1557 -0.34068756 -0.28188159 -0.27887059 1.408651512 -0.3861860246 2.28888456
## 1558 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1559 -0.34068756 1.63543836 -0.27887059 -0.320389910 -0.3861860246 1.96594984
## 1560 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1561 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1562 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4225091499 -0.29459327
## 1563 -0.34068756 -0.28188159 -0.27887059 -0.320389910 2.4118808693 -0.29459327
## 1564 -0.34068756 2.78583033 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1565 3.23365472 -0.28188159 5.71794697 -0.320389910 -0.3861860246 5.73352167
## 1566 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4843448824 -0.29459327
## 1567 2.59537932 1.09407743 2.18410805 0.760260979 0.0775819689 -0.29459327
## 1568 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1569 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.23506211
## 1570 -0.34068756 -0.28188159 -0.27887059 4.542539089 -0.3861860246 -0.29459327
## 1571 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1572 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1573 0.07419145 -0.23676818 2.69276668 0.508109105 0.0621230358 -0.02548099
## 1574 -0.34068756 0.82339697 2.37150860 -0.320389910 -0.0151716298 -0.29459327
## 1575 2.49963800 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1576 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1577 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1578 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1579 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.1233841616 -0.29459327
## 1580 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1581 -0.18111871 -0.28188159 -0.27887059 1.552738297 -0.3861860246 -0.29459327
## 1582 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1583 -0.34068756 1.74822189 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1584 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```

```

## 1585 5.65910128 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1586 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.4998038155 -0.29459327
## 1587 -0.34068756 -0.28188159 -0.27887059 1.624781690 0.1703355676 1.64301511
## 1588 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1589 3.07408587 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1590 1.44648358 -0.28188159 1.22033380 1.696825082 0.4795142299 -0.29459327
## 1591 -0.02154986 -0.05631454 1.14001928 0.039827053 -0.0615484292 -0.29459327
## 1592 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1593 -0.34068756 3.23696444 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1594 -0.34068756 2.15424258 -0.27887059 -0.320389910 0.4485963636 2.61181929
## 1595 -0.34068756 0.30459275 -0.27887059 1.552738297 -0.3861860246 1.10479056
## 1596 0.07419145 -0.28188159 -0.27887059 0.147892142 1.9326539427 -0.29459327
## 1597 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1598 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8244414109 -0.29459327
## 1599 -0.24494625 -0.28188159 0.20301653 1.624781690 0.5568088954 1.21243547
## 1600 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1601 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 1602 -0.34068756 -0.28188159 -0.27887059 3.678018378 -0.3861860246 -0.29459327
## 1603 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1604 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1605 0.77629440 -0.28188159 -0.27887059 -0.320389910 0.1548766344 -0.29459327
## 1606 0.87203571 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1607 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1608 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1609 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1610 2.14858653 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1611 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1612 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1613 0.90394948 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1614 0.45715670 0.28203604 -0.27887059 -0.320389910 -0.3861860246 0.35127619
## 1615 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1616 -0.34068756 0.84595367 0.39041708 -0.320389910 1.1751662201 -0.29459327
## 1617 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1618 0.77629440 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1619 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1620 0.87203571 0.57527321 0.73844667 -0.320389910 -0.3861860246 1.75066002
## 1621 -0.34068756 -0.12398466 -0.27887059 2.093063742 0.5413499623 0.88950074
## 1622 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.3703347224 -0.29459327
## 1623 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1624 0.29758784 0.62038662 -0.01115552 4.758669267 0.8505286246 0.24363128
## 1625 3.23365472 -0.28188159 5.71794697 -0.320389910 -0.3861860246 5.73352167
## 1626 1.19117342 -0.28188159 -0.27887059 0.544130801 -0.3861860246 2.28888456
## 1627 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1628 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1629 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1630 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.0621230358 -0.29459327
## 1631 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1632 -0.05346363 -0.07887124 -0.27887059 0.724239283 -0.2470556266 2.28888456
## 1633 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1634 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1635 -0.34068756 -0.28188159 8.07383959 -0.320389910 -0.3861860246 -0.29459327
## 1636 1.38265604 4.63548017 -0.27887059 -0.320389910 0.4485963636 -0.29459327
## 1637 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1638 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327

```



```

## 1639 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1640 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1641 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.3606734174 -0.29459327
## 1642 -0.34068756 -0.28188159 0.97939024 -0.320389910 2.5664702004 -0.29459327
## 1643 6.99947963 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1644 0.61672555 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 1.32008038
## 1645 -0.08537740 -0.28188159 0.41718859 -0.320389910 -0.3861860246 -0.29459327
## 1646 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1647 1.03160456 0.68805674 -0.27887059 -0.320389910 0.2785480994 -0.29459327
## 1648 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.8399003440 -0.29459327
## 1649 0.93586325 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1650 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1651 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1652 -0.34068756 -0.28188159 3.46914039 0.940369460 0.1548766344 -0.29459327
## 1653 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 2.39652947
## 1654 -0.34068756 1.13919084 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1655 2.21241407 -0.28188159 1.86284997 2.561345793 1.4688859492 -0.29459327
## 1656 -0.34068756 -0.28188159 -0.27887059 2.993606149 -0.3861860246 -0.29459327
## 1657 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1658 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1659 -0.02154986 -0.28188159 1.11324777 0.436065712 0.4176784974 -0.29459327
## 1660 -0.34068756 -0.28188159 -0.27887059 0.652195890 -0.3861860246 -0.29459327
## 1661 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1662 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1663 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1664 -0.34068756 0.98129391 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1665 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1666 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1667 -0.34068756 -0.28188159 0.65813215 -0.320389910 -0.3861860246 0.62038847
## 1668 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.6031856948 4.87236240
## 1669 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1670 -0.34068756 0.84595367 1.05970476 -0.320389910 1.1751662201 -0.29459327
## 1671 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1672 -0.34068756 -0.28188159 1.78253545 -0.320389910 -0.3861860246 -0.29459327
## 1673 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.3558427649 -0.29459327
## 1674 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1675 0.26567407 0.14669581 2.31796559 2.813497667 0.5104320961 0.18980883
## 1676 6.36120422 2.08657247 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1677 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1678 -0.24494625 -0.28188159 0.22978804 1.732846779 0.6186446279 1.32008038
## 1679 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1680 -0.34068756 -0.28188159 0.25655955 -0.320389910 -0.0770073623 -0.29459327
## 1681 -0.34068756 -0.28188159 -0.27887059 2.381237312 -0.3861860246 -0.29459327
## 1682 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1683 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1684 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1685 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1686 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1687 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1688 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1689 -0.34068756 1.92867553 -0.27887059 1.444673208 -0.3861860246 -0.29459327
## 1690 2.91451702 0.28203604 0.17624503 1.804890171 -0.2625145597 0.62038847
## 1691 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.7732339591 -0.29459327
## 1692 -0.34068756 -0.28188159 -0.27887059 5.767276763 -0.3861860246 2.28888456

```

```

## 1693 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1694 -0.02154986 -0.05631454 -0.27887059 0.400044016 -0.0770073623 1.85830493
## 1695 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1696 7.76541012 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1697 -0.34068756 -0.28188159 1.16679079 -0.320389910 0.0312051695 -0.29459327
## 1698 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1699 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1700 -0.34068756 -0.28188159 0.04238749 0.580152498 -0.2006788272 0.35127619
## 1701 -0.34068756 -0.28188159 -0.27887059 -0.320389910 1.1133304876 -0.29459327
## 1702 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1703 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1704 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1705 -0.34068756 1.97378894 -0.27887059 -0.320389910 1.1597072869 -0.29459327
## 1706 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1707 0.23376030 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.18694836
## 1708 -0.18111871 -0.28188159 -0.27887059 -0.140281428 -0.2161377603 0.29745374
## 1709 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1710 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1711 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1712 -0.34068756 -0.28188159 -0.27887059 -0.320389910 0.2167123669 -0.29459327
## 1713 0.52098424 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1714 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1715 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1716 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 10.46989770
## 1717 0.93586325 0.16925251 0.52427462 1.120477942 2.2572915381 0.24363128
## 1718 2.78686194 0.14669581 0.22978804 4.650604178 0.2167123669 -0.29459327
## 1719 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1720 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1721 0.20184653 -0.10142795 -0.27887059 0.940369460 -0.1233841616 -0.29459327
## 1722 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1723 -0.34068756 -0.28188159 -0.27887059 -0.320389910 -0.3861860246 -0.29459327
## 1724 -0.34068756 -0.28188159 -0.27887059 -0.320389910 3.5713008529 -0.29459327
##          V12          V13          V14          V15          V16
## 1  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 2  -4.895427e-01 -0.31073882 -0.159375873 -0.19835608 -0.159424622
## 3   1.013936e+00 0.33606695 0.026682289 -0.19835608 -0.277735009
## 4  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 5  -1.049319e-01 1.11223387 -0.159375873 -0.19835608 -0.277735009
## 6  -6.177463e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 7  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 8  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 9  -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 10 8.973872e-01 3.24669291 -0.159375873 -0.19835608 0.044929682
## 11 2.027910e+00 -0.31073882 -0.159375873 5.32419235 -0.277735009
## 12 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 13 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 14 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 15 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 16 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 17 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 18 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 19 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 20 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 21 -6.177463e-01 3.21435262 -0.159375873 -0.19835608 -0.277735009

```

```

## 22 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 23 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 24 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 25 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 26 5.943605e-01 0.14202522 0.057691983 -0.19835608 -0.277735009
## 27 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 28 2.983609e+00 -0.31073882 3.034622583 -0.19835608 -0.277735009
## 29 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 30 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 31 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 32 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 33 -1.398965e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 34 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 35 -6.177463e-01 -0.31073882 -0.159375873 1.04513165 0.453638289
## 36 3.029887e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 37 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 38 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 39 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 40 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 41 6.666549e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 42 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 43 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 44 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 45 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 46 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 47 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 48 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 49 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.281810994
## 50 4.440469e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 51 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 52 3.146436e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 53 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 54 1.514753e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 55 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 56 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 0.163240068
## 57 5.512717e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 58 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 59 -6.177463e-01 2.50286627 -0.159375873 -0.19835608 -0.277735009
## 60 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 61 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 62 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 63 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 64 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 65 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 66 -2.214806e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 67 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 68 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 69 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 70 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 71 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 72 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 73 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 74 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 6.444446037
## 75 2.703892e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

## 76	1.161687e-02	0.65946983	0.026682289	-0.19835608	-0.277735009
## 77	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 78	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 79	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 80	-3.263744e-01	4.57264473	-0.159375873	2.54463155	-0.277735009
## 81	-2.681001e-01	1.62967849	-0.159375873	-0.19835608	-0.277735009
## 82	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 83	9.090421e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 84	-8.162211e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 85	7.342190e-01	-0.31073882	-0.159375873	4.04413146	-0.277735009
## 86	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 87	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 88	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 89	-8.162211e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 90	-6.177463e-01	-0.31073882	-0.159375873	2.03260720	-0.277735009
## 91	-9.327698e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 92	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 93	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 94	2.214046e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 95	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 96	2.214046e-01	1.50031733	-0.159375873	-0.19835608	-0.019603256
## 97	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 98	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 99	-4.545780e-01	-0.31073882	-0.159375873	0.31366828	0.034174192
## 100	2.750512e+00	-0.31073882	-0.159375873	-0.19835608	1.271055504
## 101	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 102	1.631302e-01	-0.31073882	0.336779227	-0.19835608	0.260039475
## 103	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	1.098967670
## 104	1.065252e+01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 105	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 106	1.596680e+00	-0.31073882	-0.159375873	-0.19835608	-0.030358746
## 107	1.316963e+00	0.01266406	0.801924633	-0.19835608	-0.277735009
## 108	4.658149e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 109	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	1.410876870
## 110	2.327174e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 111	-2.098257e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 112	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 113	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	2.981178362
## 114	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 115	3.729179e-01	0.36840724	-0.159375873	-0.19835608	-0.277735009
## 116	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	1.658253133
## 117	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 118	-2.681001e-01	4.63732531	-0.159375873	-0.19835608	-0.277735009
## 119	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 120	-6.177463e-01	17.63812125	-0.159375873	-0.19835608	-0.277735009
## 121	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 122	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 123	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 124	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 125	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 126	1.666609e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 127	-2.098257e-01	-0.31073882	-0.159375873	-0.19835608	0.098707130
## 128	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 129	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009

```

## 130 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 131 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 132 1.161687e-02 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 133 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 134 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 135 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 136 1.212069e+00 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 137 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 138 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 139 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 140 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 141 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 0.292305944
## 142 1.724883e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 143 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 144 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.690259062
## 145 -1.169287e-02 -0.18137767 0.119711371 -0.19835608 -0.277735009
## 146 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 147 5.593959e-01 0.27138637 -0.159375873 -0.19835608 -0.277735009
## 148 -3.963037e-01 -0.31073882 0.119711371 -0.19835608 -0.277735009
## 149 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 150 3.262984e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 151 1.747851e-01 1.37095618 0.956973102 0.82569264 0.496660248
## 152 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 153 2.272662e+00 1.27393531 -0.159375873 -0.19835608 5.067743359
## 154 -4.196134e-01 -0.05201651 -0.159375873 -0.19835608 -0.191691091
## 155 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 156 6.176703e-01 -0.31073882 -0.159375873 -0.19835608 0.475149269
## 157 1.503441e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 158 2.249352e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 159 6.526349e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 160 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 161 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.191691091
## 162 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 163 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 164 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 165 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 166 7.458739e-01 -0.05201651 0.615866471 -0.19835608 -0.277735009
## 167 1.456821e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 168 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 169 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 170 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 171 -6.177463e-01 -0.31073882 0.925963408 -0.19835608 -0.277735009
## 172 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 173 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 174 -4.662329e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 175 4.545020e-01 1.17691445 -0.159375873 -0.19835608 -0.277735009
## 176 1.678264e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 177 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 178 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 179 -6.177463e-01 2.08244252 -0.159375873 -0.19835608 -0.277735009
## 180 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 181 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 182 3.228362e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 183 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979

```

```

## 184 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 185 -6.177463e-01 0.17436551 -0.159375873 0.35024145 -0.116402663
## 186 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.217538596
## 187 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 188 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 189 -2.214806e-01 0.40074753 0.181730758 7.70144829 -0.277735009
## 190 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 191 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 192 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.862346897
## 193 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 194 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 195 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 196 -6.177463e-01 -0.31073882 -0.159375873 1.74002185 -0.277735009
## 197 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 198 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 199 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.120218109
## 200 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 201 5.710508e-01 2.98797060 -0.159375873 -0.19835608 0.819324938
## 202 -6.177463e-01 0.69181012 -0.159375873 -0.19835608 0.399860841
## 203 1.829777e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 204 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 205 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 206 1.980948e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 207 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 208 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 209 1.923016e+00 -0.31073882 3.220680745 -0.19835608 -0.277735009
## 210 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 211 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 212 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 213 -6.177463e-01 4.15222098 -0.159375873 -0.19835608 -0.277735009
## 214 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 215 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 216 -6.177463e-01 4.24924185 -0.159375873 -0.19835608 -0.277735009
## 217 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 218 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 219 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 220 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 221 1.235379e+00 -0.31073882 -0.159375873 -0.19835608 1.432387849
## 222 -6.177463e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 223 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.066440661
## 224 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 225 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 226 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 227 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 228 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 229 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 230 5.360861e-01 0.04500435 0.181730758 -0.19835608 -0.277735009
## 231 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 232 2.563692e-01 0.17436551 -0.159375873 -0.19835608 -0.277735009
## 233 5.127764e-01 1.53265762 3.747845539 -0.19835608 0.001907723
## 234 -5.011975e-01 -0.31073882 0.150721064 -0.19835608 -0.277735009
## 235 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 236 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 237 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 238 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 239 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 240 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 241 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 242 1.398205e-01 1.79137993 3.561787376 -0.08863657 -0.051869725
## 243 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 244 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 245 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 246 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 247 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 248 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 249 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 250 4.533708e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 251 -2.681001e-01 4.63732531 -0.159375873 -0.19835608 -0.277735009
## 252 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 253 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 254 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 255 -6.177463e-01 0.72415041 -0.159375873 -0.19835608 -0.277735009
## 256 -6.177463e-01 0.33606695 -0.159375873 -0.19835608 0.614970634
## 257 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 258 -1.748611e-01 0.07734464 -0.159375873 3.97098512 -0.277735009
## 259 -6.177463e-01 0.04500435 0.553847083 -0.19835608 -0.277735009
## 260 1.048559e-01 -0.31073882 -0.159375873 5.87278988 -0.277735009
## 261 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 1.744297050
## 262 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 263 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 264 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 265 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 266 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 267 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 268 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.045190221
## 269 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 270 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 271 1.161687e-02 -0.31073882 1.515147589 -0.19835608 -0.277735009
## 272 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 273 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 274 -6.177463e-01 2.01776195 -0.159375873 -0.19835608 -0.277735009
## 275 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 276 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 277 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 278 -6.177463e-01 0.49776839 -0.159375873 -0.19835608 -0.008847767
## 279 2.327174e-02 1.72669935 -0.159375873 -0.19835608 0.227773006
## 280 -6.177463e-01 -0.31073882 13.298831212 -0.19835608 -0.277735009
## 281 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 282 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 283 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 284 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 285 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 286 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 10.649842499
## 287 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 288 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 289 -3.496842e-01 -0.31073882 5.019242982 -0.19835608 -0.277735009
## 290 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 291 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 292 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 293 2.330595e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 294 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 295 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 296 -6.177463e-01 5.76923540 -0.159375873 -0.19835608 -0.277735009
## 297 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 298 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 299 -5.944365e-01 -0.31073882 -0.159375873 -0.19835608 -0.223957560
## 300 1.130485e+00 0.27138637 -0.159375873 -0.19835608 0.926879835
## 301 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 302 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 303 5.593959e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 304 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 305 -4.429232e-01 0.17436551 -0.159375873 -0.19835608 -0.277735009
## 306 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 307 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 308 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 309 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 310 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 311 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.485904758
## 312 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 313 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 314 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 315 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 316 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 317 4.658149e-02 2.59988714 -0.159375873 0.38681462 -0.277735009
## 318 -6.177463e-01 7.77433329 -0.159375873 -0.19835608 -0.277735009
## 319 -6.177463e-01 0.62712954 -0.159375873 -0.19835608 -0.277735009
## 320 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 321 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 322 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 323 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 324 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 325 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 326 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 327 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 328 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 329 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 330 1.806467e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 331 9.556616e-01 3.11733175 -0.159375873 -0.19835608 0.034174192
## 332 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 333 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.077456690
## 334 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 335 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 336 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 337 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 338 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 339 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 340 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 341 -3.147196e-01 0.53010868 -0.159375873 0.27709511 0.001907723
## 342 -3.263744e-01 3.02031089 -0.159375873 -0.19835608 0.550437696
## 343 5.943605e-01 -0.31073882 -0.159375873 -0.19835608 1.959406843
## 344 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 345 3.146436e-01 -0.31073882 -0.159375873 5.28761918 -0.277735009

```



```

## 346 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 347 -4.429232e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 348 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 0.905368855
## 349 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 350 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 351 4.778118e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 352 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 353 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 354 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 355 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 356 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 357 3.612631e-01 -0.31073882 -0.159375873 1.00855848 1.357099422
## 358 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 359 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 360 -6.177463e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 361 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 362 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 363 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 364 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 365 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 366 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 367 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 368 1.247033e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 369 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 370 -4.778878e-01 0.07734464 -0.159375873 0.24052195 -0.277735009
## 371 -4.079585e-01 0.59478926 -0.159375873 -0.19835608 -0.277735009
## 372 -6.177463e-01 -0.31073882 -0.159375873 1.66687551 1.948651354
## 373 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 374 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.148669132
## 375 -6.177463e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 376 6.642898e-01 1.46797704 -0.159375873 -0.19835608 -0.277735009
## 377 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.722525531
## 378 -6.177463e-01 -0.31073882 4.026932782 -0.19835608 -0.277735009
## 379 1.794812e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 380 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.174256097
## 381 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 382 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 383 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 384 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.690259062
## 385 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.346083393
## 386 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 387 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 388 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 0.303061434
## 389 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 390 3.181742e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 391 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 392 -2.098257e-01 1.37095618 0.367788921 -0.19835608 -0.191691091
## 393 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 394 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 395 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 2.701535631
## 396 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.098967670
## 397 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 398 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 399 2.680241e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009

```

```

## 400 -5.478170e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 401 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 402 -3.263744e-01 0.04500435 -0.004327404 -0.16178291 -0.245468539
## 403 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 404 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 405 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 406 9.789713e-01 -0.31073882 0.088701677 -0.19835608 0.270794965
## 407 -6.177463e-01 2.79392887 -0.159375873 -0.19835608 -0.277735009
## 408 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 2.045450761
## 409 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 410 1.981290e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 411 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 412 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 413 -2.681001e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 414 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 415 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 416 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 417 1.608334e+00 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 418 1.515095e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 419 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 420 1.980948e-01 -0.31073882 -0.159375873 1.08170482 0.475149269
## 421 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.324832953
## 422 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 423 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 424 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 425 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 426 8.973872e-01 0.23904608 -0.159375873 1.99603403 0.464393779
## 427 3.694557e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 428 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 429 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 430 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 431 -3.147196e-01 1.40329647 -0.159375873 -0.19835608 -0.277735009
## 432 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 433 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 434 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 435 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 436 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 437 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 438 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 439 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.916124345
## 440 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 441 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.604475684
## 442 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 443 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 444 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.335848982
## 445 -6.177463e-01 0.72415041 -0.159375873 -0.19835608 -0.277735009
## 446 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 447 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 448 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 0.496660248
## 449 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 450 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 451 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.170180112
## 452 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 453 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 454 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 455 1.864742e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 456 4.545020e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 457 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 458 -2.914098e-01 0.59478926 -0.159375873 -0.19835608 0.625726124
## 459 -6.177463e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 460 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.174256097
## 461 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 462 -1.398965e-01 -0.21371795 -0.159375873 -0.19835608 -0.266979519
## 463 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 464 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 465 1.200414e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 466 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 467 -6.177463e-01 0.46542810 -0.159375873 -0.19835608 -0.277735009
## 468 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 469 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 470 -6.177463e-01 0.36840724 -0.159375873 -0.19835608 0.625726124
## 471 6.060154e-01 -0.31073882 -0.159375873 7.51858245 -0.277735009
## 472 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 473 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 474 -6.177463e-01 4.34626271 -0.159375873 -0.19835608 1.271055504
## 475 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 476 -9.327698e-02 -0.21371795 0.057691983 -0.19835608 -0.159424622
## 477 1.223724e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 478 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 479 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 480 -2.214806e-01 0.23904608 -0.159375873 5.14132651 0.087951640
## 481 4.195374e-01 1.11223387 3.065632276 -0.08863657 0.001907723
## 482 1.456821e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 483 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 484 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 485 1.316963e+00 0.01266406 0.801924633 -0.19835608 -0.277735009
## 486 8.274580e-01 0.20670580 -0.159375873 2.21547304 0.604215145
## 487 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 488 -3.613391e-01 2.56754685 -0.159375873 -0.19835608 0.195506537
## 489 -3.496842e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 490 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 491 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 492 -4.196134e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 493 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 0.055685171
## 494 2.016255e+00 -0.31073882 1.236060345 -0.19835608 0.206262027
## 495 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 496 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 497 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 498 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 499 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 500 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 501 -6.177463e-01 -0.31073882 2.476448095 -0.19835608 -0.277735009
## 502 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 503 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 504 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.141729089
## 505 -1.515513e-01 -0.31073882 -0.159375873 -0.19835608 -0.062625215
## 506 -6.177463e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 507 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009

```

```

## 508 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 4.024460860
## 509 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 510 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 511 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 512 -6.177463e-01 0.04500435 0.553847083 -0.19835608 -0.277735009
## 513 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 514 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 515 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 516 -4.895427e-01 -0.31073882 -0.159375873 -0.19835608 -0.159424622
## 517 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 0.055685171
## 518 -4.895427e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 519 -5.245073e-01 -0.31073882 -0.159375873 -0.12520974 -0.277735009
## 520 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 521 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 522 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 523 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 524 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 525 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 0.163240068
## 526 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 527 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.206262027
## 528 5.477410e-01 0.33606695 -0.159375873 -0.19835608 -0.277735009
## 529 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 530 3.076848e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 531 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 532 4.673566e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 533 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 534 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 535 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 536 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.228033546
## 537 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 538 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 539 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 540 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 0.905368855
## 541 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 542 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 543 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 544 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 545 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 546 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 547 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 548 3.379533e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 549 -1.169287e-02 -0.18137767 0.119711371 -0.19835608 -0.277735009
## 550 3.950964e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 551 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 552 4.545020e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 553 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 554 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 1.378610401
## 555 1.980948e-01 -0.31073882 -0.159375873 1.08170482 0.475149269
## 556 1.258688e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 557 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 0.518171227
## 558 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 559 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 560 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 561 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 562 1.316963e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 563 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 564 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 565 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 566 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 567 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 568 -4.778878e-01 0.49776839 -0.159375873 -0.19835608 -0.148669132
## 569 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 570 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 571 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 572 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 573 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 574 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 575 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 576 5.477410e-01 -0.05201651 -0.159375873 -0.19835608 -0.277735009
## 577 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 578 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 579 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 580 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.152745118
## 581 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 582 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 583 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 584 1.212069e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 585 -2.914098e-01 0.04500435 -0.159375873 -0.19835608 -0.094891684
## 586 3.379533e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 587 -6.177463e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 588 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 589 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.475409808
## 590 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 591 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 592 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 593 1.678264e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 594 2.529069e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 595 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 596 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.019603256
## 597 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 598 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 599 3.845728e-01 -0.31073882 1.422118508 -0.19835608 -0.277735009
## 600 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 601 1.161687e-02 1.43563676 -0.159375873 -0.19835608 0.303061434
## 602 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 0.787058469
## 603 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 604 2.156113e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 605 1.980948e-01 -0.31073882 -0.159375873 -0.19835608 0.851591407
## 606 1.386892e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 607 -6.177463e-01 4.89604762 -0.159375873 -0.19835608 -0.277735009
## 608 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 609 1.165107e-01 -0.01967622 0.956973102 -0.19835608 -0.277735009
## 610 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 611 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.916124345
## 612 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 613 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 614 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 615 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009

```

```

## 616 4.440469e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 617 4.778118e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 618 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.185011587
## 619 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 620 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 621 1.165449e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 622 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 623 3.146778e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 624 4.658149e-02 2.59988714 -0.159375873 0.38681462 -0.277735009
## 625 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 626 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 627 6.235319e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 628 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 629 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 630 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 631 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 632 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 633 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 634 -3.729939e-01 0.36840724 -0.159375873 -0.19835608 -0.277735009
## 635 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 636 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 1.131234139
## 637 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 638 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 639 8.041482e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 640 -6.177463e-01 -0.31073882 2.321399627 -0.19835608 -0.277735009
## 641 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 642 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 643 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 644 1.281656e-01 0.49776839 -0.159375873 0.24052195 -0.277735009
## 645 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 646 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 647 8.391128e-01 -0.31073882 -0.159375873 0.93541214 1.400121380
## 648 2.214388e+00 -0.31073882 1.329089427 -0.19835608 0.238528496
## 649 2.214388e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 650 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 651 1.037246e+00 -0.31073882 -0.159375873 -0.19835608 1.249544525
## 652 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 653 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 654 -1.282416e-01 -0.31073882 -0.159375873 1.33771700 -0.277735009
## 655 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 656 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 657 4.428472e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 658 -3.496842e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 659 2.447143e-01 -0.31073882 -0.159375873 1.15485115 3.314598542
## 660 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 661 1.398205e-01 1.79137993 3.561787376 -0.08863657 -0.051869725
## 662 -6.177463e-01 0.62712954 -0.159375873 -0.19835608 -0.277735009
## 663 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 664 2.587344e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 665 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 666 -6.177463e-01 5.51051310 -0.159375873 -0.19835608 0.690259062
## 667 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 668 8.624226e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 669 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 670 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 671 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 672 1.048559e-01 1.01521301 -0.159375873 -0.19835608 -0.170180112
## 673 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 674 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 675 -6.177463e-01 3.18201233 -0.159375873 -0.19835608 -0.277735009
## 676 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 677 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 678 -6.177463e-01 0.23904608 -0.159375873 0.42338779 -0.094891684
## 679 -4.895427e-01 0.43308781 -0.159375873 1.52058284 -0.159424622
## 680 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 681 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 682 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 683 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 0.034174192
## 684 2.447143e-01 -0.31073882 -0.159375873 -0.19835608 0.518171227
## 685 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 686 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 687 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 688 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 689 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 690 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 691 -3.263744e-01 0.91819214 -0.159375873 -0.19835608 0.130973599
## 692 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 693 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 694 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 695 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 696 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 697 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 698 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 699 1.083865e+00 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 700 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 701 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 702 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 0.077196151
## 703 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 704 4.078825e-01 3.95817925 -0.159375873 -0.19835608 -0.277735009
## 705 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 706 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 707 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 6.4444446037
## 708 -2.334775e-02 1.33861589 -0.159375873 -0.19835608 0.270794965
## 709 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 710 4.661569e-01 2.69690800 -0.159375873 -0.19835608 0.346083393
## 711 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 712 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 713 -2.331355e-01 1.82372022 -0.159375873 -0.19835608 0.432127310
## 714 -6.177463e-01 1.62967849 -0.159375873 -0.19835608 -0.277735009
## 715 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 716 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 717 2.796789e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 718 -5.831237e-02 -0.31073882 1.639186364 -0.19835608 0.657992593
## 719 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 720 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 721 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 722 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 723 2.796789e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 724 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 725 2.214388e+00 -0.31073882 1.329089427 -0.19835608 0.238528496
## 726 1.153794e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 727 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 728 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.346083393
## 729 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 730 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 731 2.750512e+00 -0.31073882 -0.159375873 -0.19835608 1.271055504
## 732 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 733 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 734 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 735 1.002281e+00 1.56499791 3.251690439 0.31366828 -0.127158153
## 736 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 737 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 738 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 1.335588442
## 739 3.845728e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 740 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 741 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 742 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 743 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 744 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 745 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 746 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 747 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 748 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 749 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 1.787319009
## 750 -3.800089e-05 -0.31073882 -0.159375873 -0.19835608 0.292305944
## 751 4.195374e-01 1.43563676 3.127651664 -0.19835608 -0.105647174
## 752 1.398205e-01 -0.31073882 -0.159375873 2.17889987 -0.277735009
## 753 -4.665749e-02 2.89094973 -0.159375873 -0.19835608 -0.277735009
## 754 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 755 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 756 5.209690e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 757 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 758 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 759 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 760 1.351927e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 761 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 762 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 763 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 764 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 765 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 766 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 767 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 768 1.888051e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 769 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 770 3.962277e-01 -0.31073882 -0.159375873 -0.19835608 0.657992593
## 771 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 772 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 773 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 0.410616331
## 774 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 0.281550454
## 775 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 776 1.864400e-01 0.23904608 0.088701677 2.32519254 0.647237103
## 777 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 778 -3.963037e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 779 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 780 1.794812e+00 -0.31073882 -0.159375873 -0.19835608 -0.094891684
## 781 8.857323e-01 -0.31073882 -0.159375873 0.97198531 0.066440661
## 782 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 783 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 784 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 785 1.853087e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 786 -3.263744e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 787 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.184751047
## 788 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 789 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 790 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 0.109462620
## 791 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 792 2.680241e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 793 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 794 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 795 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 796 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 797 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 798 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 799 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 800 1.619989e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 801 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 802 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 803 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 804 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 805 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 806 1.212069e+00 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 807 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 808 -2.331355e-01 1.82372022 1.360099120 2.21547304 -0.277735009
## 809 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 810 1.177104e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 811 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.367594372
## 812 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 813 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 814 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 815 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 816 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 817 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 818 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 819 5.710508e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 820 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 821 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 822 1.923016e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 823 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 824 -6.177463e-01 -0.31073882 30.850317871 -0.19835608 -0.277735009
## 825 -3.263744e-01 4.66966560 -0.159375873 2.61777789 -0.277735009
## 826 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 827 -3.263744e-01 1.33861589 -0.159375873 -0.19835608 -0.277735009
## 828 -6.177463e-01 4.79902675 -0.159375873 -0.19835608 -0.277735009
## 829 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 830 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 831 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

## 832	8.154611e-02	0.23904608	0.367788921	-0.19835608	-0.277735009
## 833	-5.011975e-01	0.33606695	-0.159375873	-0.19835608	-0.277735009
## 834	-6.177463e-01	3.21435262	-0.159375873	-0.19835608	-0.277735009
## 835	-1.981708e-01	-0.31073882	-0.159375873	-0.19835608	0.109462620
## 836	-3.030647e-01	4.18456127	-0.159375873	-0.19835608	0.012663213
## 837	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 838	5.943605e-01	0.14202522	0.057691983	-0.19835608	-0.277735009
## 839	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 840	6.176703e-01	-0.31073882	-0.159375873	-0.19835608	0.475149269
## 841	4.428472e-01	-0.31073882	-0.159375873	-0.19835608	0.701014552
## 842	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 843	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 844	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 845	3.647937e+00	-0.01967622	-0.159375873	-0.19835608	-0.277735009
## 846	-3.380293e-01	-0.31073882	-0.159375873	0.67939997	-0.277735009
## 847	9.090421e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 848	-3.800089e-05	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 849	2.610654e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 850	2.214046e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 851	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 852	1.759848e+00	0.33606695	0.150721064	-0.19835608	-0.277735009
## 853	3.950964e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 854	1.072210e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 855	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	1.851851947
## 856	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	0.130973599
## 857	1.002281e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 858	1.161687e-02	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 859	4.658149e-02	1.53265762	-0.159375873	-0.19835608	-0.073380705
## 860	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 861	1.864400e-01	0.62712954	-0.159375873	5.58020453	-0.180935601
## 862	1.161687e-02	-0.31073882	-0.159375873	-0.19835608	0.303061434
## 863	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 864	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 865	-1.748611e-01	0.91819214	-0.159375873	-0.19835608	0.130973599
## 866	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	2.884378955
## 867	2.156113e+00	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 868	-6.177463e-01	-0.31073882	-0.159375873	2.03260720	-0.277735009
## 869	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 870	2.680241e-01	-0.31073882	-0.159375873	-0.19835608	0.260039475
## 871	3.496082e-01	-0.31073882	-0.159375873	-0.19835608	0.614970634
## 872	-4.895427e-01	-0.31073882	-0.159375873	-0.19835608	-0.159424622
## 873	-1.049319e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 874	-4.662329e-01	-0.31073882	-0.159375873	-0.19835608	-0.137913643
## 875	8.973872e-01	-0.31073882	0.088701677	-0.19835608	0.238528496
## 876	-3.147196e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 877	-5.245073e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 878	-1.282416e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 879	-6.177463e-01	-0.31073882	3.778855232	-0.19835608	-0.277735009
## 880	1.048559e-01	0.69181012	-0.159375873	3.97098512	-0.277735009
## 881	3.845728e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 882	-6.177463e-01	0.23904608	-0.159375873	0.42338779	-0.094891684
## 883	-6.177463e-01	-0.31073882	-0.159375873	-0.19835608	-0.277735009
## 884	1.161687e-02	1.43563676	-0.159375873	-0.19835608	-0.277735009
## 885	8.154611e-02	0.23904608	0.367788921	-0.19835608	-0.277735009

```

## 886 4.673566e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 887 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 888 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 889 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 890 -6.177463e-01 0.20670580 -0.159375873 0.38681462 -0.105647174
## 891 2.447143e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 892 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 893 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 894 9.906262e-01 -0.31073882 -0.159375873 8.25004582 -0.277735009
## 895 3.729179e-01 1.24159502 -0.159375873 6.89683859 -0.148669132
## 896 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 897 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 898 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 899 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 900 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 901 1.747851e-01 0.62712954 -0.159375873 5.54363136 -0.180935601
## 902 1.095520e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 903 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 904 -2.331355e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 905 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 906 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 907 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.400121380
## 908 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 909 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 910 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 911 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 912 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.851591407
## 913 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 914 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 915 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 0.303061434
## 916 1.491786e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 917 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 918 2.796789e-01 1.30627560 3.933903701 -0.08863657 -0.030358746
## 919 -6.177463e-01 1.07989358 -0.159375873 -0.19835608 0.184751047
## 920 2.330595e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 921 8.274580e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 922 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 923 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 924 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 925 1.514753e-01 0.40074753 -0.159375873 -0.19835608 0.916124345
## 926 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 927 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 928 3.492662e-02 0.07734464 0.026682289 -0.19835608 -0.277735009
## 929 2.680241e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 930 -6.177463e-01 2.69690800 -0.159375873 -0.19835608 -0.277735009
## 931 1.864400e-01 0.62712954 -0.159375873 5.58020453 -0.180935601
## 932 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 933 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 934 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 935 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 936 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 937 1.573370e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 938 6.526349e-01 0.07734464 -0.159375873 -0.19835608 -0.277735009
## 939 3.262984e-01 -0.14903738 0.181730758 -0.19835608 -0.277735009

```

```

## 940 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 941 4.078825e-01 1.82372022 -0.159375873 3.82469245 0.432127310
## 942 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 943 4.428472e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 944 -6.177463e-01 -0.31073882 -0.159375873 1.04513165 0.453638289
## 945 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 946 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 947 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 948 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 949 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 950 7.575287e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 951 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 952 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 953 1.048559e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 954 6.176703e-01 -0.31073882 -0.159375873 7.55515562 -0.277735009
## 955 2.796789e-01 -0.01967622 4.957223595 -0.19835608 0.346083393
## 956 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 957 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 958 -6.177463e-01 0.88585185 2.135341464 -0.19835608 -0.277735009
## 959 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 960 3.729179e-01 0.49776839 -0.159375873 -0.19835608 -0.116402663
## 961 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 962 1.247033e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 963 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 964 -3.263744e-01 4.66966560 -0.159375873 2.61777789 -0.277735009
## 965 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 966 5.943605e-01 0.10968493 -0.159375873 -0.19835608 0.916124345
## 967 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 1.679764112
## 968 -2.331355e-01 1.85606050 1.918273608 1.63030234 -0.277735009
## 969 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 970 2.179423e+00 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 971 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 972 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 973 4.149097e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 974 6.176703e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 975 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 976 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 977 1.270343e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 978 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 979 7.808385e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 980 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.421371820
## 981 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 982 5.827056e-01 -0.31073882 -0.159375873 -0.19835608 1.937895864
## 983 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 984 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 985 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 986 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 0.120218109
## 987 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 988 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 989 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 990 6.875995e-01 0.40074753 0.522837389 -0.19835608 -0.277735009
## 991 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 992 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.184751047
## 993 8.624226e-01 0.78883099 -0.159375873 -0.19835608 0.346083393

```

```

## 994 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.023418702
## 995 -6.177463e-01 -0.31073882 -0.159375873 3.05665591 -0.277735009
## 996 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.668748083
## 997 2.459140e+00 -0.31073882 0.987982796 -0.19835608 0.120218109
## 998 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 999 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1000 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1001 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 2.045450761
## 1002 2.004600e+00 -0.31073882 1.236060345 -0.19835608 0.206262027
## 1003 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.507936817
## 1004 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1005 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1006 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1007 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1008 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1009 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1010 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1011 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1012 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1013 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1014 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1015 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1016 3.543043e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1017 -6.177463e-01 0.75649070 -0.159375873 -0.19835608 -0.277735009
## 1018 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1019 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1020 -3.147196e-01 0.53010868 -0.159375873 0.27709511 0.001907723
## 1021 -1.169287e-02 1.04755329 -0.159375873 -0.19835608 -0.277735009
## 1022 -3.496842e-01 -0.31073882 -0.159375873 -0.19835608 -0.030358746
## 1023 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1024 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 1025 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1026 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1027 6.642898e-01 0.10968493 -0.159375873 -0.19835608 -0.277735009
## 1028 -1.632062e-01 -0.31073882 -0.159375873 -0.19835608 0.561193186
## 1029 2.214046e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1030 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1031 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1032 1.398205e-01 -0.31073882 -0.159375873 2.17889987 -0.277735009
## 1033 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1034 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 5.100009828
## 1035 -2.914098e-01 0.04500435 -0.159375873 -0.19835608 -0.094891684
## 1036 1.161687e-02 -0.31073882 1.515147589 -0.19835608 -0.277735009
## 1037 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1038 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.475409808
## 1039 4.658149e-02 0.46542810 -0.159375873 -0.19835608 -0.105647174
## 1040 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1041 5.827056e-01 -0.31073882 1.422118508 -0.19835608 -0.277735009
## 1042 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1043 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1044 1.421856e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1045 1.526750e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1046 1.223724e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1047 -4.778878e-01 -0.31073882 -0.159375873 0.24052195 -0.277735009

```

```

## 1048 5.512717e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1049 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1050 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.324572413
## 1051 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1052 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1053 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1054 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1055 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1056 4.658149e-02 -0.31073882 -0.159375873 10.26157008 -0.073380705
## 1057 -6.177463e-01 0.23904608 -0.159375873 -0.19835608 -0.094891684
## 1058 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 1059 3.492662e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1060 -6.177463e-01 3.21435262 -0.159375873 -0.19835608 -0.277735009
## 1061 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1062 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 2.475670348
## 1063 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 1064 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1065 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 -0.191691091
## 1066 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 1067 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.486165298
## 1068 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1069 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 1070 9.323518e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1071 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1072 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1073 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1074 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1075 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1076 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1077 -5.011975e-01 -0.21371795 -0.159375873 -0.19835608 -0.245468539
## 1078 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1079 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1080 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1081 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1082 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1083 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1084 -6.177463e-01 -0.31073882 -0.159375873 1.81316819 0.916124345
## 1085 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1086 9.906262e-01 -0.31073882 -0.159375873 -0.19835608 0.087951640
## 1087 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1088 1.980948e-01 1.69435906 3.809864926 -0.08863657 -0.030358746
## 1089 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.217017516
## 1090 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1091 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1092 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1093 -4.312683e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1094 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1095 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 0.389105351
## 1096 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 1097 -1.398965e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1098 1.468476e+00 0.40074753 0.181730758 -0.19835608 -0.159424622
## 1099 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1100 -1.748611e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1101 -6.177463e-01 2.01776195 -0.159375873 -0.19835608 -0.277735009

```

```

## 1102 -3.963037e-01 -0.31073882 0.429808308 -0.19835608 -0.277735009
## 1103 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1104 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1105 -2.797549e-01 0.30372666 -0.159375873 -0.19835608 -0.277735009
## 1106 3.962277e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1107 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1108 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1109 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1110 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1111 -6.177463e-01 2.21180368 -0.159375873 -0.19835608 -0.277735009
## 1112 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 0.367594372
## 1113 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1114 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1115 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1116 1.759848e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1117 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1118 -2.214806e-01 1.92074108 1.980292995 2.32519254 -0.277735009
## 1119 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1120 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1121 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1122 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 1123 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1124 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 1125 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1126 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1127 -6.177463e-01 -0.31073882 4.150971557 -0.19835608 -0.277735009
## 1128 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1129 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1130 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1131 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1132 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1133 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1134 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1135 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1136 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1137 -1.748611e-01 0.91819214 -0.159375873 4.00755829 -0.073380705
## 1138 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1139 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1140 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 1141 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1142 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1143 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1144 3.492662e-02 1.50031733 -0.159375873 -0.19835608 0.324572413
## 1145 1.923016e+00 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1146 1.188759e+00 -0.31073882 -0.159375873 -0.19835608 0.550437696
## 1147 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1148 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1149 1.118830e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1150 1.270343e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1151 -6.177463e-01 -0.31073882 1.887263914 -0.19835608 -0.277735009
## 1152 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1153 7.691836e-01 1.20925474 -0.159375873 -0.19835608 -0.030358746
## 1154 1.421856e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1155 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1156 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1157 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1158 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1159 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.851851947
## 1160 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1161 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.012663213
## 1162 -3.030647e-01 0.56244897 -0.159375873 -0.19835608 -0.277735009
## 1163 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1164 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1165 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1166 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1167 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.486165298
## 1168 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 0.980657283
## 1169 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1170 4.720185e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1171 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1172 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1173 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1174 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1175 -4.545780e-01 -0.31073882 -0.159375873 0.31366828 -0.277735009
## 1176 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1177 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1178 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1179 -6.177463e-01 -0.31073882 4.461068495 -0.19835608 -0.277735009
## 1180 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.722786071
## 1181 -2.334775e-02 -0.31073882 -0.159375873 -0.19835608 -0.008847767
## 1182 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1183 1.037246e+00 -0.31073882 -0.159375873 -0.19835608 1.249544525
## 1184 4.894667e-01 -0.31073882 0.181730758 -0.19835608 2.013184292
## 1185 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1186 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1187 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.593459655
## 1188 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1189 2.564034e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1190 1.161687e-02 0.10968493 -0.159375873 -0.19835608 -0.277735009
## 1191 3.262984e-01 -0.31073882 -0.159375873 0.97198531 0.249283985
## 1192 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1193 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1194 2.913338e-01 0.53010868 -0.159375873 -0.19835608 -0.277735009
## 1195 3.170087e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1196 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1197 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1198 3.612631e-01 0.20670580 -0.159375873 -0.19835608 0.442882800
## 1199 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1200 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1201 -6.177463e-01 -0.31073882 4.430058801 -0.19835608 -0.277735009
## 1202 5.011215e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1203 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1204 5.360861e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1205 1.864400e-01 0.23904608 0.088701677 2.32519254 0.647237103
## 1206 3.379533e-01 -0.31073882 -0.159375873 -0.19835608 0.539682207
## 1207 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1208 2.680241e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1209 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 1210 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1211 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1212 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1213 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1214 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1215 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1216 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1217 -6.177463e-01 -0.31073882 6.166601651 -0.19835608 -0.277735009
## 1218 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1219 5.127764e-01 -0.31073882 -0.159375873 -0.19835608 2.497181327
## 1220 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1221 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.701796170
## 1222 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1223 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1224 2.505760e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1225 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1226 -6.177463e-01 -0.31073882 -0.159375873 4.04413146 -0.277735009
## 1227 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1228 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.927400914
## 1229 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1230 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1231 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1232 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.034174192
## 1233 4.661569e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1234 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1235 1.911361e+00 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1236 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1237 2.051220e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1238 2.330595e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 1239 4.078825e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1240 -6.177463e-01 0.14202522 -0.159375873 0.31366828 -0.127158153
## 1241 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1242 3.729179e-01 1.24159502 -0.159375873 6.89683859 -0.148669132
## 1243 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.572209215
## 1244 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 1245 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1246 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1247 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1248 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1249 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1250 6.176703e-01 3.11733175 -0.159375873 -0.19835608 -0.277735009
## 1251 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1252 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1253 -2.447903e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1254 -2.334775e-02 1.33861589 -0.159375873 -0.19835608 0.270794965
## 1255 4.195374e-01 1.11223387 3.065632276 -0.08863657 0.001907723
## 1256 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1257 -1.981708e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1258 -6.177463e-01 2.05010224 -0.159375873 -0.19835608 -0.277735009
## 1259 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1260 1.223724e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 1261 2.027910e+00 -0.31073882 -0.159375873 -0.19835608 0.937635324
## 1262 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1263 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1264 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1265 3.962277e-01 1.07989358 -0.159375873 -0.19835608 2.550958775
## 1266 5.850708e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1267 1.980948e-01 0.65946983 -0.159375873 5.68992403 -0.170180112
## 1268 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1269 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1270 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1271 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 1272 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1273 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1274 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1275 5.360861e-01 0.04500435 0.181730758 -0.19835608 -0.277735009
## 1276 -6.177463e-01 3.27903320 -0.159375873 -0.19835608 3.325354032
## 1277 3.263326e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1278 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 1279 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1280 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1281 -1.169287e-02 0.62712954 -0.004327404 -0.19835608 -0.277735009
## 1282 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1283 2.447143e-01 -0.31073882 0.987982796 -0.19835608 0.120218109
## 1284 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1285 -5.361622e-01 0.17436551 -0.159375873 -0.19835608 -0.202446581
## 1286 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.787579548
## 1287 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1288 -6.177463e-01 -0.31073882 14.601238349 -0.19835608 4.841878076
## 1289 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 0.055685171
## 1290 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1291 -6.177463e-01 -0.31073882 1.887263914 -0.19835608 -0.277735009
## 1292 -6.177463e-01 1.79137993 -0.159375873 -0.19835608 -0.277735009
## 1293 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1294 -6.996724e-02 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1295 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1296 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1297 4.661569e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1298 -6.177463e-01 2.92329002 -0.159375873 -0.19835608 -0.277735009
## 1299 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.213202070
## 1300 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1301 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 1302 -6.177463e-01 -0.31073882 6.228621038 -0.19835608 -0.277735009
## 1303 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1304 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1305 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.055945711
## 1306 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1307 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1308 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1309 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1310 4.778118e-01 0.88585185 -0.159375873 -0.19835608 -0.277735009
## 1311 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1312 3.799451e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1313 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1314 4.545020e-01 -0.05201651 0.088701677 -0.19835608 -0.277735009
## 1315 -6.177463e-01 0.20670580 -0.159375873 0.38681462 -0.105647174
## 1316 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1317 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1318 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1319 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1320 3.647937e+00 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1321 -3.963037e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1322 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.045190221
## 1323 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1324 3.962277e-01 -0.05201651 0.088701677 -0.19835608 -0.277735009
## 1325 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1326 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1327 -6.177463e-01 -0.31073882 -0.159375873 15.93041118 -0.277735009
## 1328 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1329 -5.361622e-01 0.17436551 -0.159375873 -0.19835608 -0.202446581
## 1330 -6.177463e-01 -0.31073882 3.158661358 -0.19835608 -0.277735009
## 1331 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1332 -3.613391e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1333 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1334 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1335 -2.098257e-01 1.37095618 0.367788921 -0.19835608 -0.191691091
## 1336 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1337 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1338 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1339 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1340 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1341 2.680241e-01 -0.31073882 0.088701677 -0.19835608 1.453898829
## 1342 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1343 1.631302e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1344 -3.147196e-01 -0.31073882 -0.159375873 -0.19835608 0.001907723
## 1345 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1346 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1347 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.862346897
## 1348 2.447485e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1349 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1350 1.161687e-02 0.65946983 0.026682289 -0.19835608 -0.277735009
## 1351 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1352 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1353 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 1.980917823
## 1354 1.480131e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 1355 4.078825e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1356 4.195374e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1357 2.598999e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1358 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1359 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1360 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1361 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1362 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1363 5.823636e-02 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1364 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1365 -1.169287e-02 0.23904608 -0.159375873 -0.19835608 -0.277735009
## 1366 -6.177463e-01 -0.31073882 -0.159375873 2.94693641 -0.277735009
## 1367 8.857323e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1368 -6.177463e-01 -0.31073882 4.678136351 -0.19835608 -0.277735009
## 1369 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1370 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1371 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1372 1.678264e+00 2.24414397 -0.159375873 -0.19835608 -0.277735009
## 1373 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1374 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1375 -4.429232e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1376 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1377 2.330595e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1378 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1379 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1380 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1381 1.864742e+00 -0.31073882 -0.159375873 -0.19835608 -0.105647174
## 1382 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1383 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 0.647237103
## 1384 6.293251e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1385 2.319282e+00 1.62967849 -0.159375873 -0.19835608 0.367594372
## 1386 -6.177463e-01 -0.05201651 -0.159375873 -0.19835608 -0.277735009
## 1387 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1388 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1389 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1390 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1391 2.913338e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1392 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1393 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1394 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1395 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1396 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1397 7.109092e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1398 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1399 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1400 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1401 -5.011975e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1402 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1403 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1404 1.864400e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1405 -6.177463e-01 1.69435906 -0.159375873 -0.19835608 -0.277735009
## 1406 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1407 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1408 2.680241e-01 0.30372666 -0.159375873 -0.19835608 -0.073380705
## 1409 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1410 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1411 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 1.271055504
## 1412 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.030358746
## 1413 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1414 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1415 2.004600e+00 -0.31073882 -0.159375873 5.28761918 -0.277735009
## 1416 4.078825e-01 0.40074753 -0.159375873 3.82469245 0.195506537
## 1417 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1418 -6.177463e-01 -0.31073882 6.352659813 -0.19835608 -0.277735009
## 1419 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.195506537
## 1420 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1421 -6.177463e-01 0.69181012 -0.159375873 -0.19835608 0.399860841
## 1422 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1423 -2.681001e-01 0.33606695 -0.159375873 -0.01549023 -0.277735009
## 1424 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 0.055685171
## 1425 8.391128e-01 -0.31073882 -0.159375873 -0.19835608 1.744297050

```

```

## 1426 -4.545780e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1427 2.327174e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1428 4.929973e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1429 -5.831237e-02 -0.31073882 -0.159375873 -0.01549023 -0.051869725
## 1430 4.195374e-01 1.43563676 3.127651664 -0.19835608 -0.105647174
## 1431 1.328618e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1432 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1433 3.262984e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1434 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.141729089
## 1435 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 1.228033546
## 1436 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 0.711770041
## 1437 2.097497e-01 0.23904608 0.088701677 2.39833888 0.668748083
## 1438 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1439 2.680241e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1440 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1441 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1442 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1443 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 1444 -6.177463e-01 -0.31073882 -0.159375873 1.41086333 -0.277735009
## 1445 -1.169287e-02 -0.31073882 -0.159375873 -0.19835608 -0.137913643
## 1446 8.507677e-01 -0.31073882 -0.159375873 -0.19835608 1.077456690
## 1447 1.783158e+00 1.88840079 -0.159375873 1.04513165 -0.277735009
## 1448 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1449 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1450 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1451 2.330595e-01 2.05010224 -0.159375873 -0.19835608 -0.277735009
## 1452 3.262984e-01 -0.31073882 0.956973102 -0.19835608 -0.277735009
## 1453 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 1454 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1455 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1456 9.090421e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1457 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1458 -2.564452e-01 -0.14903738 -0.159375873 -0.19835608 -0.170180112
## 1459 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1460 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1461 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1462 8.154611e-02 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1463 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 2.884378955
## 1464 -2.214806e-01 -0.31073882 -0.159375873 -0.19835608 0.657992593
## 1465 2.179423e+00 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 1466 1.048901e+00 -0.31073882 -0.159375873 -0.19835608 1.260300015
## 1467 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1468 5.360861e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1469 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.593459655
## 1470 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1471 -2.447903e-01 0.72415041 -0.159375873 -0.19835608 0.066440661
## 1472 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.453898829
## 1473 1.013936e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1474 5.943605e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1475 4.894667e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1476 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1477 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1478 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1479 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1480 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1481 1.514753e-01 0.40074753 -0.159375873 -0.19835608 0.916124345
## 1482 6.992544e-01 -0.31073882 -0.159375873 -0.19835608 3.992194391
## 1483 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1484 8.158031e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1485 1.161687e-02 0.65946983 0.026682289 -0.19835608 -0.277735009
## 1486 6.759446e-01 0.91819214 3.530777683 0.27709511 -0.073380705
## 1487 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1488 -6.177463e-01 4.44328358 -0.159375873 -0.19835608 7.627549901
## 1489 -3.729939e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1490 1.864400e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1491 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1492 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1493 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1494 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1495 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1496 -6.177463e-01 2.95563031 -0.159375873 -0.19835608 -0.277735009
## 1497 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1498 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1499 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1500 8.624226e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1501 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1502 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1503 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1504 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.582704165
## 1505 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1506 1.161687e-02 0.56244897 -0.159375873 -0.19835608 0.593459655
## 1507 2.121149e+00 -0.31073882 1.298079733 -0.19835608 0.227773006
## 1508 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1509 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1510 -1.049319e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1511 -6.177463e-01 0.78883099 -0.159375873 -0.19835608 -0.277735009
## 1512 9.673164e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1513 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1514 -2.331355e-01 1.82372022 -0.159375873 -0.19835608 0.432127310
## 1515 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1516 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1517 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1518 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1519 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 1520 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1521 -2.564452e-01 0.69181012 -0.159375873 -0.19835608 -0.277735009
## 1522 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1523 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1524 2.878716e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1525 -2.681001e-01 0.65946983 -0.159375873 -0.19835608 0.044929682
## 1526 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1527 5.823636e-02 0.91819214 -0.159375873 3.34924126 -0.277735009
## 1528 -8.162211e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1529 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1530 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 1531 -2.214806e-01 0.23904608 -0.159375873 -0.19835608 -0.277735009
## 1532 -6.177463e-01 1.11223387 -0.159375873 -0.19835608 -0.277735009
## 1533 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578

```

```

## 1534 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1535 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1536 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.228554625
## 1537 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1538 -5.944365e-01 -0.31073882 -0.159375873 -0.19835608 -0.223957560
## 1539 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1540 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.066701201
## 1541 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.270794965
## 1542 4.311923e-01 -0.31073882 -0.159375873 -0.19835608 0.453638289
## 1543 1.095520e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1544 -1.981708e-01 -0.01967622 -0.159375873 -0.19835608 -0.277735009
## 1545 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1546 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1547 1.270343e+00 -0.31073882 0.832934327 -0.19835608 -0.277735009
## 1548 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.077196151
## 1549 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1550 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1551 4.658149e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1552 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1553 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1554 2.645618e+00 2.69690800 -0.159375873 -0.19835608 -0.277735009
## 1555 5.477410e-01 0.49776839 -0.159375873 -0.19835608 -0.277735009
## 1556 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1557 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1558 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1559 -1.282416e-01 -0.31073882 -0.159375873 -0.19835608 0.173995558
## 1560 1.398205e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1561 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1562 7.458739e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1563 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.041114236
## 1564 -9.327698e-02 -0.31073882 -0.159375873 -0.19835608 1.679764112
## 1565 6.875995e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1566 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1567 -2.681001e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1568 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1569 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.227773006
## 1570 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1571 -2.331355e-01 -0.31073882 -0.159375873 -0.19835608 0.077196151
## 1572 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1573 -2.214806e-01 1.04755329 0.057691983 1.81316819 0.657992593
## 1574 -4.665749e-02 -0.31073882 -0.159375873 -0.19835608 0.249283985
## 1575 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1576 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1577 -2.914098e-01 -0.31073882 -0.159375873 -0.19835608 -0.127158153
## 1578 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1579 -4.196134e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1580 2.330937e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1581 -4.429232e-01 -0.31073882 -0.159375873 -0.01549023 -0.277735009
## 1582 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1583 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1584 2.365901e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1585 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1586 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1587 4.311923e-01 -0.31073882 0.956973102 -0.19835608 0.496660248

```

```

## 1588 -6.177463e-01 -0.31073882 5.267320532 -0.19835608 -0.277735009
## 1589 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1590 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1591 1.281656e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1592 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1593 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1594 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 2.056206250
## 1595 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.571948676
## 1596 -1.515513e-01 -0.31073882 -0.159375873 0.78911947 0.012663213
## 1597 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1598 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1599 1.398205e-01 1.79137993 3.530777683 -0.08863657 -0.051869725
## 1600 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1601 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 1602 -1.865160e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1603 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1604 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1605 -6.177463e-01 0.82117128 -0.159375873 -0.19835608 -0.277735009
## 1606 7.342190e-01 -0.31073882 -0.159375873 4.04413146 -0.277735009
## 1607 1.666609e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1608 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.507415738
## 1609 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1610 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1611 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1612 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1613 -6.177463e-01 0.95053243 -0.159375873 -0.19835608 0.141729089
## 1614 -4.778878e-01 0.07734464 -0.159375873 -0.19835608 -0.277735009
## 1615 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1616 -3.263744e-01 4.57264473 -0.159375873 2.54463155 -0.277735009
## 1617 -1.981708e-01 3.24669291 -0.159375873 -0.19835608 0.109462620
## 1618 2.097497e-01 -0.31073882 -0.159375873 -0.19835608 0.098707130
## 1619 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1620 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.130973599
## 1621 3.379533e-01 -0.08435680 -0.159375873 0.35024145 -0.277735009
## 1622 2.214388e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1623 5.244313e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1624 8.154611e-02 -0.31073882 -0.159375873 -0.19835608 -0.170180112
## 1625 6.875995e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1626 -3.380293e-01 -0.31073882 -0.159375873 -0.19835608 0.238528496
## 1627 3.694557e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1628 2.913680e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1629 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1630 6.989124e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1631 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1632 2.796789e-01 -0.01967622 4.957223595 -0.19835608 0.346083393
## 1633 3.612631e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1634 1.747851e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1635 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1636 1.161687e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1637 7.342190e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1638 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 3.561974805
## 1639 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1640 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.313816923
## 1641 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```



```

## 1642 2.167768e+00 -0.31073882 2.786545033 -0.19835608 0.227773006
## 1643 2.680241e-01 2.14712310 -0.159375873 -0.19835608 -0.277735009
## 1644 2.202733e+00 -0.31073882 -0.159375873 -0.19835608 0.044929682
## 1645 3.333256e+00 0.23904608 -0.159375873 -0.19835608 -0.191691091
## 1646 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1647 -1.165867e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1648 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1649 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.152484578
## 1650 3.146436e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1651 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 21.233244336
## 1652 -2.098257e-01 -0.31073882 -0.159375873 -0.19835608 1.980917823
## 1653 5.593959e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1654 1.165107e-01 -0.31073882 -0.159375873 -0.19835608 0.399860841
## 1655 3.146436e-01 0.98287272 -0.159375873 5.14132651 -0.277735009
## 1656 -1.515513e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1657 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1658 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1659 -1.169287e-02 1.72669935 0.150721064 0.16737561 -0.051869725
## 1660 -3.030647e-01 -0.31073882 4.057942476 -0.19835608 -0.277735009
## 1661 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1662 9.320098e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1663 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1664 3.492662e-02 1.50031733 -0.159375873 -0.19835608 0.324572413
## 1665 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1666 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1667 1.456821e+00 0.23904608 0.367788921 -0.19835608 -0.277735009
## 1668 8.740775e-01 -0.31073882 -0.159375873 -0.19835608 0.754792000
## 1669 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1670 -3.263744e-01 4.60498502 -0.159375873 2.58120472 -0.277735009
## 1671 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1672 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1673 -5.831237e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1674 -6.177463e-01 6.86880521 -0.159375873 -0.19835608 -0.277735009
## 1675 6.293251e-01 0.30372666 2.538467483 0.13080244 -0.277735009
## 1676 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1677 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1678 2.330595e-01 1.79137993 3.778855232 -0.08863657 -0.030358746
## 1679 6.526349e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1680 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1681 2.563692e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1682 3.729179e-01 -0.31073882 -0.159375873 -0.19835608 0.636481614
## 1683 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1684 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1685 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1686 -6.177463e-01 4.08754041 -0.159375873 -0.19835608 -0.277735009
## 1687 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1688 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 2.109983699
## 1689 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1690 6.989124e-02 0.23904608 -0.159375873 7.88431414 -0.008847767
## 1691 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1692 7.924934e-01 -0.31073882 -0.159375873 -0.19835608 -0.019603256
## 1693 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1694 -3.500262e-02 -0.31073882 1.701205752 -0.19835608 0.701014552
## 1695 -2.564452e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009

```

```

## 1696 3.612631e-01 2.40584541 -0.159375873 -0.19835608 -0.277735009
## 1697 -3.030647e-01 -0.31073882 -0.159375873 -0.19835608 0.883857876
## 1698 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1699 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1700 -1.748611e-01 0.07734464 -0.159375873 4.00755829 -0.277735009
## 1701 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1702 1.161687e-02 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1703 2.657273e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1704 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1705 5.477410e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1706 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1707 -5.128524e-01 0.04500435 -0.159375873 -0.19835608 -0.277735009
## 1708 3.492662e-02 -0.14903738 -0.159375873 -0.19835608 -0.159424622
## 1709 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1710 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1711 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1712 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1713 -6.177463e-01 1.43563676 -0.159375873 -0.19835608 -0.277735009
## 1714 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1715 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1716 1.713228e+00 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1717 1.608334e+00 0.33606695 -0.159375873 1.63030234 0.367594372
## 1718 5.244313e-01 -0.31073882 0.429808308 -0.19835608 0.776302979
## 1719 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 1.712030581
## 1720 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1721 1.048901e+00 -0.31073882 0.088701677 -0.19835608 0.292305944
## 1722 -6.177463e-01 -0.31073882 -0.159375873 -0.19835608 0.797813959
## 1723 -3.500262e-02 -0.31073882 -0.159375873 -0.19835608 -0.277735009
## 1724 -6.177463e-01 -0.31073882 -0.159375873 4.48300948 -0.277735009
##          V17          V18          V19          V20          V21
## 1      -0.310262311 -0.371882840 0.410894666 -0.18378346 -0.672980848
## 2      -0.310262311 -0.371882840 -0.401151175 -0.18378346 -0.269675246
## 3         0.125211001 -0.371882840 -0.917380317 -0.18378346 -0.672980848
## 4      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 5      -0.310262311 -0.371882840 -0.186539060 -0.18378346 -0.672980848
## 6      -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.218189425
## 7      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 8      -0.310262311 -0.371882840 0.590704817 -0.18378346 -0.672980848
## 9      -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 10     0.125211001 -0.371882840 0.561703179 -0.18378346 0.356735583
## 11     1.322762611 -0.371882840 -0.517157724 -0.18378346 1.927053140
## 12     -0.310262311 -0.371882840 0.944524790 -0.18378346 -0.672980848
## 13     -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 14     -0.310262311 -0.371882840 0.033873383 -0.18378346 -0.381227860
## 15     -0.310262311 -0.371882840 -0.099534148 -0.18378346 -0.672980848
## 16     -0.310262311 -0.371882840 0.590704817 13.03483854 0.468288196
## 17     -0.310262311 -0.371882840 0.474698268 -0.18378346 0.382478493
## 18     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 19     -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.672980848
## 20     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 21     -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 22     -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 23     -0.310262311 -0.371882840 -0.354748556 -0.18378346 0.210859088
## 24     -0.310262311 -0.371882840 -0.836175733 -0.18378346 -0.501361443

```

## 25	-0.310262311	-0.371882840	0.451496958	-0.18378346	-0.672980848
## 26	0.821968301	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 27	-0.310262311	-0.371882840	-0.203940042	-0.18378346	-0.123798752
## 28	0.800194636	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 29	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 30	-0.310262311	-0.371882840	0.805316932	-0.18378346	-0.672980848
## 31	-0.310262311	-0.371882840	1.640564082	-0.18378346	0.605583720
## 32	-0.310262311	-0.371882840	-0.424352485	-0.18378346	1.686785973
## 33	-0.310262311	-0.371882840	-0.227141352	-0.18378346	-0.441294651
## 34	-0.310262311	-0.371882840	1.333146728	-0.18378346	-0.672980848
## 35	-0.310262311	2.348854031	-0.354748556	-0.18378346	0.210859088
## 36	-0.310262311	-0.371882840	-0.725969511	-0.18378346	-0.672980848
## 37	-0.310262311	-0.371882840	-0.209740370	-0.18378346	-0.672980848
## 38	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 39	3.674318499	1.077852865	0.532701542	-0.18378346	0.262344910
## 40	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.021443813
## 41	-0.310262311	-0.371882840	6.298227014	-0.18378346	-0.672980848
## 42	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 43	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 44	-0.310262311	-0.371882840	-0.430152812	-0.18378346	2.416168445
## 45	-0.310262311	1.057993471	-0.615763290	0.16342237	-0.303999127
## 46	-0.310262311	-0.371882840	0.242685170	-0.18378346	-0.672980848
## 47	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 48	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 49	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 50	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 51	-0.310262311	-0.371882840	-0.128535786	-0.18378346	-0.063731960
## 52	-0.310262311	-0.371882840	1.831974888	-0.18378346	0.699974393
## 53	-0.310262311	1.018274685	-0.708568529	0.16342237	0.047820653
## 54	1.126799620	-0.371882840	0.979326755	-0.18378346	-0.672980848
## 55	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 56	-0.310262311	1.256587404	1.211339852	-0.18378346	0.391059464
## 57	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 58	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 59	-0.310262311	-0.371882840	-0.447553795	-0.18378346	-0.672980848
## 60	-0.310262311	-0.371882840	-0.383750193	-0.18378346	1.008889322
## 61	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 62	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 63	-0.310262311	-0.371882840	-0.180738732	-0.18378346	0.468288196
## 64	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 65	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 66	-0.310262311	-0.371882840	-0.754971149	-0.18378346	-0.381227860
## 67	-0.310262311	-0.371882840	0.074475675	-0.18378346	-0.672980848
## 68	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 69	-0.310262311	-0.371882840	-0.064732184	-0.18378346	0.639907601
## 70	-0.310262311	-0.371882840	-0.227141352	-0.18378346	-0.672980848
## 71	1.780009589	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 72	-0.310262311	-0.371882840	-0.441753467	-0.18378346	0.082144534
## 73	-0.310262311	0.859399539	-0.227141352	-0.18378346	-0.406970770
## 74	-0.310262311	-0.371882840	1.460753932	-0.18378346	-0.672980848
## 75	-0.310262311	-0.371882840	4.018698331	-0.18378346	-0.672980848
## 76	1.257441614	-0.252726481	1.681166375	0.41142654	0.262344910
## 77	-0.310262311	-0.371882840	0.706711365	-0.18378346	-0.672980848
## 78	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848

## 79	-0.310262311	-0.371882840	2.939837428	-0.18378346	1.884148289
## 80	-0.310262311	2.626885536	0.219483861	-0.18378346	0.622745661
## 81	-0.310262311	-0.371882840	0.805316932	-0.18378346	0.622745661
## 82	-0.310262311	-0.371882840	0.236884843	-0.18378346	-0.672980848
## 83	-0.310262311	-0.371882840	-0.192339387	-0.18378346	3.840609507
## 84	-0.310262311	-0.073991942	-0.778172458	-0.18378346	0.245182969
## 85	-0.310262311	0.382774102	1.066331666	-0.18378346	0.322411702
## 86	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 87	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 88	-0.310262311	-0.371882840	0.434095976	-0.18378346	-0.672980848
## 89	0.016342673	-0.371882840	-0.865177370	-0.18378346	-0.612914057
## 90	-0.310262311	-0.371882840	0.115077967	-0.18378346	0.905917679
## 91	-0.310262311	3.222667332	-0.952182281	-0.18378346	2.055767694
## 92	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 93	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 94	-0.310262311	-0.371882840	1.582560808	-0.18378346	-0.672980848
## 95	-0.310262311	-0.371882840	1.193938870	-0.18378346	5.676937143
## 96	2.150161905	-0.371882840	1.715968339	-0.18378346	1.051794174
## 97	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 98	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 99	2.868692871	3.699292769	0.149879931	-0.18378346	0.202278118
## 100	-0.310262311	-0.371882840	2.406207304	-0.18378346	-0.672980848
## 101	-0.310262311	0.005445631	0.416694993	-0.18378346	0.339573642
## 102	-0.310262311	-0.054132549	0.219483861	0.63463029	0.047820653
## 103	-0.310262311	-0.371882840	1.275143454	-0.18378346	2.622111731
## 104	-0.310262311	-0.371882840	0.915523153	-0.18378346	-0.672980848
## 105	-0.310262311	-0.371882840	0.138279277	-0.18378346	-0.672980848
## 106	-0.310262311	-0.371882840	1.257742472	0.38662612	0.348154612
## 107	0.582457980	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 108	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 109	1.388083608	-0.371882840	-0.041530874	-0.18378346	1.352128133
## 110	-0.310262311	0.720383787	0.990927410	-0.18378346	0.279506850
## 111	-0.310262311	-0.371882840	-0.128535786	-0.18378346	-0.672980848
## 112	-0.310262311	-0.371882840	0.857519879	-0.18378346	-0.672980848
## 113	-0.310262311	5.645513305	0.805316932	-0.18378346	1.927053140
## 114	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 115	3.870281490	0.462211675	0.909722826	-0.18378346	0.605583720
## 116	-0.310262311	3.997183668	0.091876657	-0.18378346	1.738271794
## 117	-0.310262311	-0.371882840	0.996727737	-0.18378346	-0.672980848
## 118	-0.310262311	0.223898956	0.648708091	-0.18378346	-0.149541663
## 119	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 120	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 121	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 122	-0.310262311	-0.371882840	1.681166375	-0.18378346	-0.672980848
## 123	-0.310262311	-0.371882840	0.439896303	-0.18378346	-0.672980848
## 124	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 125	-0.310262311	3.361683085	0.138279277	-0.18378346	0.940241560
## 126	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 127	-0.310262311	-0.034273156	-0.644764927	-0.18378346	-0.527104354
## 128	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 129	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 130	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 131	-0.310262311	2.646744929	0.225284188	-0.18378346	0.631326631
## 132	-0.310262311	-0.371882840	-0.638964600	-0.18378346	-0.672980848

## 133	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 134	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 135	-0.310262311	-0.371882840	-0.221341024	-0.18378346	-0.672980848
## 136	-0.114299321	-0.371882840	1.222940507	0.03942029	0.253763939
## 137	-0.310262311	-0.371882840	-0.598362308	-0.18378346	-0.672980848
## 138	-0.310262311	-0.371882840	2.098789950	-0.18378346	0.451126255
## 139	-0.310262311	-0.371882840	1.657965065	-0.18378346	-0.672980848
## 140	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 141	0.843741967	-0.371882840	1.541958516	-0.18378346	0.245182969
## 142	-0.310262311	-0.371882840	-0.174938405	1.47784445	0.476869166
## 143	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 144	-0.310262311	3.222667332	1.153336578	-0.18378346	1.661043062
## 145	-0.005430993	-0.371882840	-0.812974423	-0.08458179	-0.432713681
## 146	-0.310262311	0.263617743	-0.580961326	-0.18378346	-0.398389800
## 147	1.083252289	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 148	-0.310262311	-0.193148301	-0.841976060	-0.18378346	-0.595752116
## 149	-0.310262311	-0.371882840	0.474698268	-0.18378346	-0.672980848
## 150	-0.310262311	-0.371882840	0.202082878	-0.18378346	2.201644188
## 151	0.560684314	0.422492888	0.834318569	0.21302321	0.459707226
## 152	-0.310262311	-0.371882840	-0.047331201	-0.18378346	1.008889322
## 153	1.845330586	-0.371882840	1.066331666	-0.18378346	1.034632233
## 154	0.255852995	-0.371882840	0.062875020	-0.18378346	0.305249761
## 155	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 156	1.997746246	-0.371882840	2.121991260	6.80993400	1.746852764
## 157	-0.310262311	-0.371882840	0.637107436	-0.18378346	0.365316553
## 158	-0.310262311	-0.371882840	2.626619747	-0.18378346	1.437937835
## 159	-0.310262311	0.164320777	-0.157537423	-0.18378346	0.262344910
## 160	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 161	-0.310262311	0.124601990	1.750770304	-0.18378346	0.356735583
## 162	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 163	0.103437336	3.838308522	0.277487135	2.66826444	0.313830731
## 164	-0.310262311	-0.371882840	0.236884843	-0.18378346	-0.672980848
## 165	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 166	0.604231645	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 167	-0.310262311	-0.371882840	0.080276002	-0.18378346	-0.672980848
## 168	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 169	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 170	-0.310262311	1.554478302	2.423608286	-0.18378346	0.159373267
## 171	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.527104354
## 172	-0.310262311	0.382774102	-0.731769839	6.43792775	-0.672980848
## 173	-0.310262311	-0.371882840	-0.244542334	-0.18378346	-0.672980848
## 174	-0.310262311	-0.113710728	0.584904489	-0.18378346	-0.338323008
## 175	-0.310262311	-0.371882840	0.648708091	-0.18378346	1.695366943
## 176	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 177	-0.310262311	0.978555898	1.414351312	-0.18378346	-0.089474871
## 178	-0.310262311	0.482071068	-0.702768202	-0.18378346	-0.672980848
## 179	4.523491459	-0.371882840	2.052387330	-0.18378346	1.231994549
## 180	-0.310262311	-0.371882840	0.532701542	0.78343279	0.511193047
## 181	-0.310262311	3.599995803	-0.952182281	-0.18378346	-0.672980848
## 182	0.473589651	0.343055316	-0.099534148	-0.18378346	-0.364065919
## 183	-0.310262311	-0.371882840	0.532701542	0.78343279	0.511193047
## 184	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 185	-0.310262311	1.117571651	-0.865177370	0.18822279	-0.158122633
## 186	-0.310262311	-0.371882840	0.393493684	-0.18378346	-0.672980848

## 187	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 188	-0.310262311	-0.371882840	3.264655765	-0.18378346	0.880174768
## 189	0.669552642	-0.153429515	1.095333303	-0.18378346	0.399640434
## 190	-0.310262311	-0.371882840	1.623163100	-0.18378346	-0.672980848
## 191	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 192	-0.310262311	-0.371882840	-0.337347573	-0.18378346	-0.672980848
## 193	-0.310262311	-0.371882840	-0.853576715	-0.18378346	-0.672980848
## 194	-0.310262311	-0.371882840	0.138279277	-0.18378346	-0.672980848
## 195	-0.310262311	-0.371882840	2.208996171	-0.18378346	2.441911355
## 196	-0.310262311	0.680665000	0.283287462	-0.18378346	-0.218189425
## 197	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 198	0.234079329	-0.133570122	-0.354748556	-0.18378346	-0.346903979
## 199	-0.310262311	-0.371882840	-0.737570166	-0.18378346	-0.355484949
## 200	-0.310262311	0.184180170	0.445696631	-0.18378346	-0.552847265
## 201	-0.310262311	-0.371882840	-0.360548883	-0.18378346	-0.672980848
## 202	-0.310262311	0.243758349	1.791372596	-0.18378346	-0.132379722
## 203	-0.310262311	-0.371882840	1.489755569	-0.18378346	1.129022906
## 204	-0.310262311	0.501930461	0.068675347	-0.18378346	1.214832608
## 205	0.059890004	1.018274685	-0.447553795	-0.18378346	-0.072312930
## 206	-0.310262311	-0.371882840	1.089532976	-0.18378346	-0.672980848
## 207	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 208	1.083252289	-0.272585874	1.489755569	0.38662612	0.279506850
## 209	-0.310262311	-0.371882840	0.631307109	-0.18378346	1.669624032
## 210	-0.310262311	1.514759515	0.149879931	-0.18378346	0.545516928
## 211	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 212	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 213	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.511193047
## 214	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.047186723
## 215	-0.310262311	-0.371882840	0.515300560	-0.18378346	-0.672980848
## 216	-0.310262311	-0.371882840	-0.134336113	-0.18378346	-0.672980848
## 217	-0.310262311	6.717920538	-0.952182281	-0.18378346	-0.672980848
## 218	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 219	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.295418157
## 220	-0.310262311	2.328994637	1.031529702	-0.18378346	1.669624032
## 221	0.843741967	0.680665000	3.055843977	-0.18378346	0.691393423
## 222	-0.310262311	0.303336529	0.033873383	-0.18378346	-0.672980848
## 223	-0.310262311	2.189978885	-0.012529237	-0.18378346	0.159373267
## 224	0.386494989	-0.371882840	0.370292374	-0.18378346	2.115834486
## 225	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 226	-0.310262311	-0.371882840	0.979326755	-0.18378346	-0.672980848
## 227	-0.310262311	-0.371882840	1.808773578	-0.18378346	-0.672980848
## 228	-0.310262311	-0.371882840	-0.731769839	-0.18378346	-0.672980848
## 229	-0.310262311	-0.371882840	-0.198139715	-0.18378346	0.167954237
## 230	0.168758332	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 231	-0.310262311	-0.371882840	-0.111134803	-0.18378346	-0.672980848
## 232	0.342947658	-0.371882840	0.358691719	-0.18378346	0.099306475
## 233	0.647778976	-0.371882840	0.915523153	-0.18378346	0.588421780
## 234	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 235	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 236	-0.310262311	-0.371882840	0.254285825	-0.18378346	1.558071419
## 237	-0.310262311	-0.371882840	0.213683533	-0.18378346	-0.243932335
## 238	-0.310262311	0.859399539	-0.714368857	-0.18378346	-0.672980848
## 239	-0.310262311	0.263617743	-0.952182281	-0.18378346	-0.672980848
## 240	-0.310262311	-0.371882840	-0.047331201	-0.18378346	-0.003665168

## 241	-0.310262311	-0.272585874	-0.824575078	-0.18378346	-0.535685324
## 242	0.626005311	-0.312304661	0.805316932	-0.18378346	0.485450136
## 243	-0.310262311	-0.371882840	-0.952182281	-0.18378346	8.517238298
## 244	-0.310262311	-0.371882840	-0.952182281	-0.18378346	1.369290073
## 245	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 246	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 247	-0.310262311	6.022841776	0.915523153	-0.18378346	-0.672980848
## 248	1.431630939	1.216868617	-0.024129892	-0.18378346	0.699974393
## 249	-0.310262311	-0.371882840	-0.047331201	-0.18378346	1.008889322
## 250	-0.310262311	-0.371882840	-0.441753467	-0.18378346	-0.672980848
## 251	-0.310262311	0.223898956	0.648708091	-0.18378346	-0.149541663
## 252	-0.310262311	-0.371882840	-0.163337750	-0.18378346	-0.672980848
## 253	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 254	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 255	-0.310262311	0.918977719	-0.952182281	-0.18378346	-0.672980848
## 256	0.125211001	-0.371882840	0.260086153	-0.18378346	-0.140960692
## 257	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.047186723
## 258	-0.048978324	3.679433376	0.671909401	0.11382154	0.416802374
## 259	-0.070751989	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 260	0.125211001	2.507729176	0.254285825	0.31222487	0.399640434
## 261	-0.005430993	-0.093851335	-0.366349210	-0.18378346	0.562678869
## 262	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 263	-0.310262311	1.415462549	1.135935596	-0.18378346	-0.672980848
## 264	-0.310262311	-0.371882840	1.460753932	-0.18378346	-0.672980848
## 265	-0.310262311	2.706323108	0.393493684	-0.18378346	-0.672980848
## 266	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 267	0.016342673	-0.371882840	-0.865177370	-0.18378346	-0.612914057
## 268	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 269	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 270	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 271	0.865515633	-0.371882840	-0.006728909	-0.18378346	-0.672980848
## 272	0.277626661	-0.371882840	-0.482355759	-0.18378346	-0.209608454
## 273	-0.310262311	-0.371882840	1.547758843	-0.18378346	0.554097899
## 274	-0.310262311	-0.371882840	-0.111134803	-0.18378346	0.571259839
## 275	-0.310262311	-0.093851335	0.410894666	0.16342237	0.202278118
## 276	-0.310262311	-0.371882840	0.613906126	-0.18378346	0.099306475
## 277	1.344536277	2.150260098	0.231084516	-0.18378346	-0.020827109
## 278	-0.310262311	1.653775268	0.236884843	-0.18378346	1.309223281
## 279	0.364721323	0.243758349	0.648708091	-0.18378346	0.605583720
## 280	-0.310262311	-0.371882840	0.306488772	-0.18378346	-0.672980848
## 281	-0.310262311	-0.371882840	1.623163100	-0.18378346	-0.672980848
## 282	1.562272933	-0.371882840	1.060531339	-0.18378346	0.811527006
## 283	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.322411702
## 284	-0.310262311	-0.371882840	2.266999446	-0.18378346	-0.672980848
## 285	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 286	1.518725602	-0.371882840	-0.464954777	-0.18378346	1.506585597
## 287	-0.310262311	-0.371882840	-0.609962963	-0.18378346	1.892729259
## 288	-0.310262311	-0.371882840	-0.389550520	1.00663653	1.000308352
## 289	-0.310262311	-0.371882840	-0.261943317	-0.18378346	-0.672980848
## 290	-0.310262311	-0.371882840	0.979326755	-0.18378346	2.184482248
## 291	-0.310262311	-0.371882840	0.573303834	-0.18378346	1.583814330
## 292	-0.310262311	-0.371882840	1.582560808	-0.18378346	-0.140960692
## 293	-0.310262311	-0.371882840	0.213683533	-0.18378346	2.227387099
## 294	-0.310262311	0.501930461	-0.952182281	-0.18378346	-0.672980848

## 295	-0.310262311	-0.371882840	0.689310383	-0.18378346	-0.672980848
## 296	-0.310262311	3.361683085	-0.952182281	-0.18378346	-0.672980848
## 297	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 298	-0.310262311	0.462211675	-0.708568529	-0.18378346	-0.123798752
## 299	-0.092525655	0.382774102	-0.911579989	0.31222487	-0.527104354
## 300	-0.310262311	-0.014413762	0.892321843	-0.18378346	0.125049386
## 301	-0.310262311	-0.371882840	0.347091064	-0.18378346	-0.672980848
## 302	-0.310262311	-0.371882840	-0.354748556	-0.18378346	-0.672980848
## 303	-0.310262311	-0.371882840	0.515300560	-0.18378346	0.193697148
## 304	-0.310262311	6.459748427	-0.952182281	-0.18378346	2.278872920
## 305	-0.310262311	1.117571651	-0.076332839	-0.18378346	-0.286837187
## 306	0.255852995	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 307	-0.310262311	-0.371882840	0.068675347	-0.18378346	0.270925880
## 308	-0.310262311	-0.371882840	0.979326755	-0.18378346	-0.672980848
## 309	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 310	-0.310262311	-0.371882840	0.753113985	-0.18378346	-0.672980848
## 311	-0.310262311	-0.371882840	-0.128535786	-0.18378346	-0.063731960
## 312	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 313	-0.310262311	-0.371882840	-0.725969511	-0.18378346	-0.338323008
## 314	-0.310262311	-0.371882840	1.623163100	-0.18378346	-0.672980848
## 315	-0.310262311	0.819680753	1.164937233	-0.18378346	0.365316553
## 316	-0.310262311	-0.371882840	-0.691167547	-0.18378346	-0.484199503
## 317	-0.310262311	0.263617743	0.422495321	-0.18378346	0.373897523
## 318	-0.310262311	-0.371882840	0.497899578	-0.18378346	1.472261716
## 319	0.321173992	-0.371882840	-0.952182281	-0.18378346	0.828688947
## 320	-0.310262311	-0.371882840	0.068675347	-0.18378346	-0.672980848
## 321	-0.310262311	-0.371882840	-0.818774750	-0.18378346	-0.672980848
## 322	-0.310262311	-0.371882840	0.173081241	-0.18378346	-0.672980848
## 323	-0.310262311	-0.371882840	-0.435953140	-0.18378346	2.390425534
## 324	-0.136072986	1.475040729	-0.018329564	0.23782362	-0.312580098
## 325	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 326	0.713099973	-0.371882840	1.530357861	-0.18378346	0.142211326
## 327	-0.310262311	-0.371882840	-0.749170821	-0.18378346	0.236601999
## 328	-0.310262311	-0.371882840	0.805316932	-0.18378346	-0.672980848
## 329	-0.310262311	-0.371882840	-0.180738732	-0.18378346	0.468288196
## 330	1.954198914	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 331	0.103437336	-0.371882840	0.503699905	-0.18378346	0.485450136
## 332	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 333	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 334	-0.310262311	0.541649248	-0.151737095	-0.18378346	-0.278256217
## 335	0.342947658	-0.371882840	-0.424352485	-0.18378346	-0.415551741
## 336	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 337	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 338	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 339	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 340	0.386494989	-0.371882840	0.370292374	-0.18378346	2.115834486
## 341	-0.310262311	-0.113710728	0.869120533	0.46102737	0.562678869
## 342	1.649367596	-0.133570122	0.167280914	-0.18378346	-0.235351365
## 343	-0.310262311	-0.371882840	0.254285825	-0.18378346	0.219440058
## 344	-0.310262311	-0.371882840	-0.128535786	-0.18378346	0.133630356
## 345	0.125211001	2.805620075	0.323889754	0.31222487	0.185116177
## 346	-0.310262311	0.283477136	-0.169138078	-0.18378346	-0.098055841
## 347	-0.310262311	-0.272585874	-0.836175733	-0.18378346	-0.544266295
## 348	0.473589651	0.343055316	0.323889754	5.27230817	1.214832608



```

## 349 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 350 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 351 3.804960493 -0.371882840 -0.847776388 -0.18378346 -0.672980848
## 352 1.518725602 -0.371882840 0.022272728 -0.18378346 -0.672980848
## 353 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 354 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 355 -0.310262311 3.937605488 -0.952182281 -0.18378346 -0.672980848
## 356 -0.310262311 6.022841776 0.915523153 -0.18378346 -0.672980848
## 357 0.408268654 -0.054132549 0.718312020 -0.18378346 1.360709103
## 358 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 359 -0.310262311 -0.371882840 -0.047331201 -0.18378346 1.008889322
## 360 -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.218189425
## 361 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 362 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 363 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.472261716
## 364 -0.310262311 -0.371882840 1.367948693 -0.18378346 -0.672980848
## 365 -0.310262311 1.097712258 -0.087933493 -0.18378346 -0.672980848
## 366 -0.310262311 -0.371882840 0.028073055 -0.18378346 -0.672980848
## 367 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 368 -0.310262311 -0.371882840 -0.952182281 3.78428318 -0.672980848
## 369 -0.310262311 -0.371882840 -0.691167547 -0.18378346 -0.484199503
## 370 1.279215280 -0.371882840 -0.604162635 -0.18378346 -0.261094276
## 371 -0.310262311 0.541649248 0.619706454 -0.18378346 0.125049386
## 372 -0.310262311 3.739011556 -0.354748556 -0.18378346 0.210859088
## 373 -0.310262311 -0.371882840 -0.302545609 -0.18378346 -0.672980848
## 374 -0.310262311 -0.133570122 -0.882578352 -0.18378346 -0.570009205
## 375 -0.310262311 -0.371882840 -0.366349210 -0.18378346 -0.389808830
## 376 -0.310262311 -0.371882840 -0.876778025 -0.18378346 -0.672980848
## 377 -0.310262311 -0.371882840 0.671909401 -0.18378346 -0.672980848
## 378 0.168758332 -0.371882840 -0.952182281 -0.18378346 -0.098055841
## 379 0.495363317 -0.371882840 0.468897940 -0.18378346 0.133630356
## 380 -0.310262311 -0.371882840 0.613906126 -0.18378346 -0.672980848
## 381 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 382 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 383 10.707212499 -0.371882840 0.515300560 2.94106902 2.579206880
## 384 9.487887223 -0.371882840 2.179994534 -0.18378346 0.099306475
## 385 -0.310262311 -0.371882840 -0.615763290 -0.18378346 0.322411702
## 386 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 387 -0.310262311 -0.371882840 0.451496958 -0.18378346 -0.672980848
## 388 0.865515633 -0.371882840 1.553559171 -0.18378346 0.253763939
## 389 1.039704958 -0.371882840 -0.592561980 -0.18378346 -0.672980848
## 390 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848
## 391 0.386494989 -0.371882840 0.364492047 -0.18378346 2.107253515
## 392 0.821968301 -0.371882840 1.391150003 -0.18378346 1.592395300
## 393 2.759824543 0.561508641 -0.406951502 4.50349526 2.158739337
## 394 -0.310262311 0.462211675 1.483955242 -0.18378346 -0.672980848
## 395 -0.310262311 7.889624738 1.460753932 -0.18378346 0.511193047
## 396 -0.310262311 -0.371882840 1.275143454 -0.18378346 2.622111731
## 397 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 398 -0.310262311 0.938837112 -0.569360671 -0.18378346 -0.106636811
## 399 0.517136983 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 400 -0.310262311 -0.371882840 -0.836175733 -0.18378346 -0.621495027
## 401 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 402 -0.201393983 -0.312304661 -0.876778025 -0.18378346 -0.544266295

```

## 403	-0.310262311	-0.371882840	0.764714640	-0.18378346	-0.672980848
## 404	-0.310262311	0.879258932	-0.401151175	-0.18378346	-0.269675246
## 405	-0.310262311	0.720383787	0.967726100	-0.18378346	0.270925880
## 406	-0.136072986	-0.213007695	1.037330029	-0.18378346	-0.012246139
## 407	-0.310262311	-0.371882840	0.161480586	-0.18378346	-0.672980848
## 408	-0.310262311	2.189978885	1.054731011	-0.18378346	0.811527006
## 409	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.777203125
## 410	-0.310262311	-0.371882840	-0.522958051	-0.18378346	-0.672980848
## 411	-0.310262311	-0.371882840	-0.209740370	-0.18378346	4.827421087
## 412	-0.310262311	-0.371882840	-0.754971149	2.34585903	-0.089474871
## 413	-0.310262311	-0.371882840	0.805316932	-0.18378346	0.622745661
## 414	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 415	-0.310262311	-0.371882840	-0.482355759	-0.18378346	0.725717304
## 416	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 417	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 418	-0.310262311	1.435321942	0.109277639	-0.18378346	-0.672980848
## 419	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 420	-0.310262311	-0.371882840	2.528014180	-0.18378346	0.536935958
## 421	-0.310262311	-0.371882840	0.776315294	-0.18378346	-0.672980848
## 422	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 423	-0.310262311	-0.371882840	-0.232941679	-0.18378346	-0.140960692
## 424	-0.310262311	-0.371882840	-0.760771476	-0.18378346	-0.672980848
## 425	-0.310262311	-0.371882840	-0.598362308	-0.18378346	-0.672980848
## 426	-0.136072986	2.547447963	0.457297286	0.23782362	0.219440058
## 427	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 428	2.367898561	-0.371882840	-0.238742007	4.10668860	1.446518805
## 429	-0.310262311	-0.371882840	-0.250342662	-0.18378346	0.365316553
## 430	1.170346952	-0.371882840	-0.557760016	-0.18378346	-0.672980848
## 431	0.843741967	-0.371882840	-0.644764927	-0.18378346	-0.672980848
## 432	-0.310262311	-0.371882840	-0.725969511	-0.18378346	-0.338323008
## 433	-0.310262311	0.402633495	0.892321843	-0.18378346	-0.672980848
## 434	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 435	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 436	4.175112809	1.673634661	1.437552622	-0.18378346	-0.672980848
## 437	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 438	-0.310262311	-0.371882840	-0.685367219	-0.18378346	-0.475618532
## 439	-0.310262311	-0.371882840	0.120878294	-0.18378346	2.193063218
## 440	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.451126255
## 441	-0.310262311	3.103510973	2.098789950	-0.18378346	0.828688947
## 442	-0.310262311	1.296306190	-0.952182281	-0.18378346	-0.672980848
## 443	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 444	-0.310262311	-0.371882840	1.164937233	-0.18378346	0.365316553
## 445	-0.310262311	0.918977719	-0.952182281	-0.18378346	-0.672980848
## 446	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 447	2.041293577	-0.371882840	0.613906126	-0.18378346	-0.209608454
## 448	-0.310262311	-0.371882840	0.521100887	4.30509193	-0.055150990
## 449	-0.310262311	-0.371882840	0.550102524	-0.18378346	-0.672980848
## 450	-0.310262311	-0.371882840	1.460753932	-0.18378346	-0.672980848
## 451	0.125211001	-0.173288908	1.466554259	-0.18378346	0.485450136
## 452	-0.310262311	-0.371882840	0.944524790	-0.18378346	-0.672980848
## 453	-0.310262311	-0.371882840	1.089532976	-0.18378346	0.699974393
## 454	2.672729880	0.720383787	0.004871746	5.27230817	1.927053140
## 455	3.391260846	-0.371882840	-0.459154449	-0.18378346	0.056401624
## 456	-0.310262311	1.455181336	1.193938870	-0.18378346	0.116468415

## 457	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 458	-0.114299321	0.740243180	0.625506781	-0.18378346	1.180508727
## 459	0.234079329	-0.371882840	0.677709728	-0.18378346	-0.458456592
## 460	-0.310262311	-0.371882840	-0.169138078	-0.18378346	-0.672980848
## 461	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 462	-0.114299321	-0.113710728	-0.934781299	-0.15898304	-0.612914057
## 463	-0.310262311	0.640946214	0.248485498	-0.18378346	0.657069542
## 464	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 465	-0.310262311	1.177149831	3.125447906	-0.18378346	1.334966192
## 466	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 467	-0.310262311	-0.371882840	-0.035730547	-0.18378346	-0.570009205
## 468	0.669552642	0.521789854	-0.424352485	-0.18378346	-0.286837187
## 469	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 470	-0.310262311	0.462211675	0.149879931	-0.18378346	-0.672980848
## 471	0.821968301	0.660805607	0.579104162	-0.18378346	1.592395300
## 472	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.295418157
## 473	-0.310262311	0.601227427	0.619706454	-0.18378346	0.382478493
## 474	-0.310262311	-0.371882840	2.406207304	-0.18378346	0.562678869
## 475	-0.310262311	-0.371882840	0.428295648	-0.18378346	1.369290073
## 476	0.843741967	-0.232867088	-0.911579989	-0.18378346	-0.647237938
## 477	-0.310262311	2.229697671	0.880721188	-0.18378346	0.004915802
## 478	-0.310262311	-0.371882840	-0.459154449	-0.18378346	-0.492780473
## 479	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 480	-0.136072986	-0.371882840	0.648708091	0.88263445	0.657069542
## 481	0.495363317	-0.232867088	0.880721188	-0.18378346	0.536935958
## 482	-0.310262311	-0.371882840	1.118534613	-0.18378346	-0.672980848
## 483	1.170346952	0.978555898	0.625506781	-0.18378346	0.494031107
## 484	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 485	0.582457980	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 486	0.038116339	2.746041895	0.393493684	0.21302321	0.322411702
## 487	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 488	0.647778976	-0.371882840	1.762370959	-0.18378346	0.665650512
## 489	1.235667948	-0.371882840	1.251942144	-0.18378346	0.957403501
## 490	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 491	-0.310262311	0.382774102	0.387693356	-0.18378346	-0.012246139
## 492	-0.310262311	-0.371882840	-0.853576715	-0.18378346	-0.672980848
## 493	0.364721323	-0.371882840	0.526901215	-0.18378346	2.064348664
## 494	-0.310262311	-0.371882840	0.091876657	-0.18378346	3.591761370
## 495	-0.310262311	-0.371882840	-0.598362308	-0.18378346	-0.672980848
## 496	-0.310262311	2.130400705	-0.952182281	-0.18378346	-0.672980848
## 497	6.091195385	-0.371882840	-0.952182281	3.46187777	3.111227036
## 498	-0.310262311	2.328994637	1.031529702	-0.18378346	1.669624032
## 499	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 500	-0.310262311	-0.371882840	-0.389550520	-0.18378346	0.159373267
## 501	-0.310262311	-0.371882840	-0.459154449	-0.18378346	-0.672980848
## 502	-0.310262311	-0.371882840	1.437552622	-0.18378346	0.210859088
## 503	0.604231645	-0.371882840	1.286744109	-0.18378346	0.425383345
## 504	1.388083608	-0.371882840	0.631307109	-0.18378346	0.330992672
## 505	-0.310262311	-0.371882840	-0.836175733	-0.18378346	-0.501361443
## 506	-0.310262311	-0.014413762	1.507156551	-0.18378346	0.485450136
## 507	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.021443813
## 508	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 509	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 510	-0.310262311	-0.371882840	1.623163100	-0.18378346	3.136969946

```

## 511 -0.310262311 -0.371882840 0.573303834 -0.18378346 -0.029408079
## 512 -0.070751989 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 513 -0.310262311 -0.371882840 -0.435953140 -0.18378346 -0.672980848
## 514 -0.310262311 -0.371882840 1.164937233 -0.18378346 0.717136333
## 515 -0.310262311 -0.371882840 1.089532976 -0.18378346 0.699974393
## 516 -0.310262311 -0.371882840 -0.401151175 -0.18378346 -0.269675246
## 517 -0.310262311 2.110541312 0.503699905 -0.18378346 0.399640434
## 518 -0.310262311 0.084883204 0.294888117 -0.18378346 -0.372646889
## 519 -0.310262311 -0.332164054 -0.905779662 -0.18378346 -0.621495027
## 520 -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 521 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 522 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 523 -0.310262311 -0.371882840 0.874920861 -0.18378346 0.228021029
## 524 -0.310262311 -0.272585874 -0.824575078 -0.18378346 -0.535685324
## 525 -0.310262311 1.256587404 1.211339852 -0.18378346 0.391059464
## 526 0.386494989 -0.371882840 0.370292374 -0.18378346 2.115834486
## 527 -0.310262311 -0.371882840 -0.824575078 -0.18378346 -0.286837187
## 528 -0.310262311 0.025305024 -0.720169184 -0.18378346 -0.672980848
## 529 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 530 -0.310262311 1.197009224 -0.952182281 -0.18378346 -0.672980848
## 531 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 532 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 533 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 534 -0.310262311 -0.371882840 -0.760771476 -0.18378346 -0.535685324
## 535 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 536 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 537 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 538 -0.310262311 -0.371882840 -0.186539060 -0.18378346 -0.672980848
## 539 1.148573286 1.633915875 0.219483861 -0.18378346 -0.098055841
## 540 0.277626661 1.276446797 0.492099250 -0.18378346 1.935634110
## 541 -0.310262311 -0.371882840 0.532701542 -0.18378346 -0.672980848
## 542 -0.310262311 -0.371882840 -0.667966237 -0.18378346 -0.467037562
## 543 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 544 -0.048978324 -0.371882840 0.080276002 -0.18378346 -0.235351365
## 545 1.562272933 0.482071068 -0.203940042 -0.18378346 3.411560995
## 546 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.535685324
## 547 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 548 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 549 -0.005430993 -0.371882840 -0.812974423 -0.08458179 -0.432713681
## 550 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 551 -0.310262311 -0.371882840 -0.203940042 -0.18378346 3.780542716
## 552 -0.310262311 -0.371882840 -0.418552157 -0.18378346 0.116468415
## 553 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 554 -0.310262311 -0.371882840 2.179994534 -0.18378346 1.309223281
## 555 -0.310262311 -0.371882840 2.528014180 -0.18378346 0.536935958
## 556 -0.310262311 -0.371882840 -0.488156087 -0.18378346 0.013496772
## 557 7.811314970 -0.371882840 1.640564082 -0.18378346 -0.037989049
## 558 -0.310262311 -0.371882840 0.613906126 -0.18378346 -0.672980848
## 559 -0.310262311 -0.371882840 -0.731769839 1.70104820 -0.672980848
## 560 -0.310262311 -0.371882840 -0.702768202 -0.18378346 -0.672980848
## 561 -0.310262311 -0.371882840 0.532701542 5.42111067 1.137603876
## 562 -0.310262311 -0.371882840 0.979326755 -0.18378346 0.751460214
## 563 -0.310262311 -0.371882840 -0.696967874 -0.18378346 -0.578590176
## 564 -0.310262311 -0.371882840 0.979326755 -0.18378346 -0.672980848

```

## 565	-0.027204658	-0.371882840	-0.267743644	-0.18378346	-0.672980848
## 566	0.734873639	0.581368034	1.576760481	-0.18378346	0.571259839
## 567	2.912240202	-0.371882840	-0.093733821	-0.18378346	-0.037989049
## 568	-0.310262311	-0.371882840	0.318089427	-0.18378346	-0.235351365
## 569	-0.310262311	-0.371882840	0.196282551	-0.18378346	-0.672980848
## 570	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 571	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 572	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.047186723
## 573	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 574	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 575	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 576	0.234079329	-0.371882840	-0.859377042	-0.18378346	-0.672980848
## 577	-0.310262311	1.832509807	1.628963428	-0.18378346	0.039239683
## 578	-0.310262311	-0.371882840	0.236884843	-0.18378346	-0.235351365
## 579	-0.310262311	-0.371882840	0.753113985	-0.18378346	0.588421780
## 580	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.468288196
## 581	-0.310262311	-0.371882840	-0.111134803	-0.18378346	-0.501361443
## 582	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 583	-0.310262311	-0.371882840	2.266999446	-0.18378346	0.279506850
## 584	-0.310262311	-0.371882840	-0.041530874	-0.18378346	0.674231482
## 585	-0.310262311	-0.371882840	-0.348948228	-0.05978138	0.116468415
## 586	3.260618852	-0.371882840	-0.163337750	-0.18378346	-0.209608454
## 587	-0.310262311	0.819680753	0.097676984	-0.18378346	0.365316553
## 588	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 589	-0.310262311	-0.371882840	0.944524790	-0.18378346	2.132996426
## 590	-0.310262311	2.746041895	-0.952182281	-0.18378346	-0.672980848
## 591	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 592	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 593	2.259030233	-0.371882840	-0.493956414	0.78343279	-0.672980848
## 594	-0.310262311	-0.371882840	1.657965065	-0.18378346	-0.672980848
## 595	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 596	-0.310262311	-0.371882840	0.735713002	-0.18378346	0.365316553
## 597	-0.310262311	-0.371882840	0.729912675	-0.18378346	-0.672980848
## 598	-0.310262311	1.554478302	-0.105334476	-0.18378346	0.159373267
## 599	-0.310262311	-0.371882840	-0.053131529	-0.18378346	2.579206880
## 600	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 601	6.853273682	-0.371882840	1.275143454	-0.18378346	0.734298274
## 602	0.212305664	-0.371882840	0.480498595	-0.18378346	-0.037989049
## 603	-0.310262311	-0.371882840	-0.256142989	-0.18378346	-0.672980848
## 604	-0.310262311	1.991384953	0.428295648	-0.18378346	0.348154612
## 605	-0.310262311	1.018274685	0.271686808	-0.18378346	0.528354988
## 606	-0.310262311	0.760102573	-0.952182281	-0.18378346	-0.672980848
## 607	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 608	-0.310262311	-0.371882840	-0.186539060	-0.18378346	0.228021029
## 609	-0.114299321	-0.371882840	-0.215540697	-0.18378346	2.227387099
## 610	-0.310262311	-0.371882840	-0.580961326	-0.18378346	-0.672980848
## 611	-0.310262311	-0.371882840	0.120878294	-0.18378346	2.193063218
## 612	1.083252289	-0.272585874	1.489755569	0.38662612	0.279506850
## 613	1.148573286	1.633915875	0.219483861	-0.18378346	-0.098055841
## 614	-0.310262311	-0.371882840	-0.557760016	-0.18378346	-0.672980848
## 615	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.047186723
## 616	1.039704958	-0.371882840	-0.952182281	-0.18378346	-0.140960692
## 617	0.299400326	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 618	-0.310262311	-0.371882840	0.231084516	-0.18378346	-0.672980848

## 619	-0.310262311	0.501930461	0.068675347	-0.18378346	1.214832608
## 620	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 621	-0.310262311	-0.371882840	1.721768667	-0.18378346	-0.672980848
## 622	-0.310262311	-0.371882840	1.483955242	-0.18378346	-0.672980848
## 623	-0.310262311	-0.371882840	-0.766571803	-0.18378346	-0.672980848
## 624	-0.310262311	0.263617743	0.474698268	-0.18378346	0.305249761
## 625	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 626	-0.310262311	-0.371882840	0.550102524	-0.18378346	-0.672980848
## 627	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 628	1.213894283	-0.371882840	-0.140136440	-0.18378346	0.528354988
## 629	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.425383345
## 630	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 631	-0.310262311	-0.371882840	-0.180738732	-0.18378346	0.468288196
## 632	-0.310262311	-0.371882840	1.460753932	-0.18378346	-0.672980848
## 633	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 634	-0.310262311	-0.371882840	-0.325746918	-0.18378346	-0.303999127
## 635	-0.048978324	-0.371882840	0.080276002	-0.18378346	-0.235351365
## 636	-0.310262311	2.229697671	-0.952182281	-0.18378346	2.707921433
## 637	-0.310262311	-0.371882840	3.879490473	-0.18378346	-0.672980848
## 638	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 639	-0.310262311	-0.371882840	0.115077967	-0.18378346	-0.149541663
## 640	-0.310262311	-0.371882840	2.296001083	-0.18378346	2.759407255
## 641	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 642	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 643	-0.310262311	-0.371882840	-0.203940042	-0.18378346	-0.123798752
## 644	-0.310262311	-0.133570122	0.016472400	-0.03498096	-0.072312930
## 645	-0.310262311	-0.371882840	1.414351312	-0.18378346	0.202278118
## 646	-0.310262311	-0.371882840	-0.557760016	-0.18378346	-0.381227860
## 647	0.364721323	-0.371882840	1.228740835	-0.18378346	0.399640434
## 648	-0.310262311	-0.371882840	0.178881569	-0.18378346	3.926419210
## 649	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.365316553
## 650	-0.310262311	-0.371882840	3.264655765	-0.18378346	0.880174768
## 651	-0.310262311	-0.371882840	0.289087790	-0.18378346	-0.063731960
## 652	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 653	-0.310262311	-0.371882840	0.196282551	-0.18378346	-0.672980848
## 654	-0.310262311	2.170119492	0.782115622	-0.18378346	1.154765817
## 655	1.780009589	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 656	-0.310262311	-0.371882840	0.231084516	-0.18378346	-0.672980848
## 657	1.671141261	-0.371882840	0.642907763	-0.18378346	-0.672980848
## 658	-0.310262311	-0.153429515	-0.482355759	-0.18378346	-0.278256217
## 659	-0.310262311	-0.371882840	-0.522958051	-0.18378346	0.597002750
## 660	-0.310262311	-0.371882840	1.808773578	-0.18378346	-0.672980848
## 661	0.626005311	-0.312304661	0.805316932	-0.18378346	0.485450136
## 662	0.321173992	-0.371882840	-0.952182281	-0.18378346	0.828688947
## 663	2.759824543	0.561508641	-0.406951502	4.50349526	2.158739337
## 664	-0.310262311	-0.371882840	2.771627932	-0.18378346	-0.672980848
## 665	-0.310262311	-0.371882840	0.422495321	-0.18378346	0.193697148
## 666	-0.310262311	-0.371882840	-0.430152812	-0.18378346	-0.672980848
## 667	-0.310262311	1.057993471	-0.615763290	0.16342237	-0.303999127
## 668	-0.310262311	0.879258932	0.892321843	-0.18378346	-0.132379722
## 669	-0.310262311	-0.371882840	1.292544436	-0.18378346	-0.123798752
## 670	-0.310262311	-0.371882840	-0.047331201	-0.18378346	-0.003665168
## 671	-0.310262311	-0.371882840	4.685735986	-0.18378346	0.511193047
## 672	-0.092525655	0.025305024	1.037330029	0.06422071	0.751460214

## 673	-0.310262311	-0.371882840	2.098789950	-0.18378346	-0.672980848
## 674	-0.310262311	1.057993471	-0.702768202	0.16342237	-0.175284573
## 675	-0.310262311	-0.371882840	0.306488772	-0.18378346	-0.672980848
## 676	-0.310262311	0.700524393	0.927123808	-0.18378346	0.253763939
## 677	-0.310262311	0.720383787	0.990927410	-0.18378346	0.279506850
## 678	-0.310262311	1.336024976	-0.853576715	0.23782362	0.064982594
## 679	0.974383961	0.561508641	0.909722826	-0.18378346	0.751460214
## 680	-0.310262311	-0.371882840	1.889978162	-0.18378346	0.373897523
## 681	-0.310262311	-0.371882840	-0.441753467	-0.18378346	0.082144534
## 682	-0.310262311	-0.371882840	-0.650565255	-0.18378346	-0.449875622
## 683	-0.310262311	0.204039563	-0.099534148	-0.18378346	-0.424132711
## 684	7.811314970	-0.371882840	1.640564082	-0.18378346	-0.037989049
## 685	-0.310262311	0.501930461	0.068675347	-0.18378346	1.214832608
## 686	-0.310262311	-0.371882840	-0.592561980	-0.18378346	-0.140960692
## 687	-0.310262311	-0.371882840	-0.111134803	-0.18378346	-0.672980848
## 688	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 689	-0.310262311	-0.371882840	0.045474038	-0.18378346	-0.672980848
## 690	-0.310262311	-0.371882840	4.685735986	-0.18378346	0.511193047
## 691	-0.310262311	0.124601990	0.741513330	-0.18378346	1.832662467
## 692	1.649367596	1.415462549	0.097676984	-0.18378346	1.661043062
## 693	-0.310262311	-0.371882840	-0.372149538	-0.18378346	-0.389808830
## 694	-0.310262311	-0.371882840	-0.192339387	-0.18378346	3.840609507
## 695	-0.310262311	-0.371882840	-0.372149538	-0.18378346	-0.029408079
## 696	-0.310262311	-0.371882840	-0.087933493	-0.18378346	-0.672980848
## 697	-0.310262311	-0.371882840	0.080276002	-0.18378346	-0.672980848
## 698	-0.310262311	-0.371882840	-0.580961326	-0.18378346	-0.672980848
## 699	-0.310262311	4.712121823	0.747313657	-0.18378346	-0.364065919
## 700	-0.310262311	0.144461383	-0.952182281	-0.18378346	-0.672980848
## 701	3.565450171	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 702	0.408268654	-0.371882840	0.196282551	-0.18378346	2.158739337
## 703	-0.310262311	0.819680753	-0.604162635	-0.18378346	-0.158122633
## 704	-0.310262311	1.375743763	1.344747383	-0.18378346	1.969957991
## 705	-0.310262311	-0.371882840	1.193938870	-0.18378346	-0.672980848
## 706	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 707	-0.310262311	-0.371882840	1.222940507	-0.18378346	-0.672980848
## 708	-0.310262311	-0.371882840	-0.058931856	-0.18378346	0.210859088
## 709	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 710	0.190531998	-0.153429515	1.478154914	-0.18378346	0.622745661
## 711	-0.310262311	-0.371882840	-0.041530874	-0.18378346	-0.672980848
## 712	-0.310262311	1.395603156	0.347091064	-0.18378346	0.476869166
## 713	1.126799620	-0.371882840	0.399294011	-0.18378346	-0.389808830
## 714	-0.310262311	0.819680753	0.097676984	-0.18378346	0.365316553
## 715	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.552847265
## 716	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 717	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 718	0.103437336	-0.371882840	0.010672073	9.98438731	0.751460214
## 719	-0.310262311	-0.371882840	3.746082942	-0.18378346	-0.672980848
## 720	-0.310262311	-0.371882840	1.193938870	-0.18378346	-0.672980848
## 721	-0.310262311	-0.371882840	0.103477312	-0.18378346	-0.672980848
## 722	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 723	-0.310262311	-0.371882840	1.077932321	-0.18378346	0.322411702
## 724	-0.310262311	-0.371882840	-0.047331201	-0.18378346	-0.672980848
## 725	-0.310262311	-0.371882840	0.178881569	-0.18378346	3.926419210
## 726	-0.310262311	-0.371882840	-0.511357396	-0.18378346	-0.672980848

## 727	1.780009589	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 728	-0.310262311	-0.371882840	-0.615763290	-0.18378346	0.322411702
## 729	-0.310262311	-0.371882840	-0.343147901	3.08987152	-0.449875622
## 730	-0.310262311	-0.371882840	0.161480586	-0.18378346	-0.123798752
## 731	-0.310262311	-0.371882840	2.406207304	-0.18378346	-0.672980848
## 732	-0.310262311	-0.371882840	-0.128535786	-0.18378346	-0.063731960
## 733	-0.310262311	-0.371882840	0.793716277	-0.18378346	-0.672980848
## 734	-0.310262311	-0.371882840	2.609218764	-0.18378346	-0.303999127
## 735	-0.310262311	-0.371882840	0.410894666	-0.18378346	0.399640434
## 736	-0.310262311	1.395603156	1.124334941	-0.18378346	0.605583720
## 737	-0.310262311	-0.371882840	0.753113985	-0.18378346	0.588421780
## 738	-0.310262311	2.607026142	1.518757206	-0.18378346	3.197036738
## 739	-0.310262311	1.336024976	-0.453354122	-0.18378346	1.540909478
## 740	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 741	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 742	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 743	-0.310262311	-0.093851335	0.410894666	0.16342237	0.202278118
## 744	-0.310262311	-0.371882840	0.886521516	-0.18378346	-0.672980848
## 745	-0.310262311	0.263617743	-0.383750193	-0.18378346	-0.398389800
## 746	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 747	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 748	-0.310262311	3.361683085	-0.134336113	0.98183612	0.536935958
## 749	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.672980848
## 750	-0.310262311	1.733212841	-0.024129892	-0.18378346	0.236601999
## 751	0.408268654	-0.332164054	0.921323480	-0.18378346	0.579840809
## 752	-0.310262311	-0.371882840	0.950325118	-0.18378346	-0.115217782
## 753	-0.310262311	-0.371882840	-0.667966237	-0.18378346	-0.672980848
## 754	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 755	-0.310262311	-0.371882840	-0.163337750	-0.18378346	4.020809883
## 756	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 757	-0.310262311	-0.371882840	-0.488156087	-0.18378346	-0.672980848
## 758	-0.310262311	3.679433376	-0.952182281	-0.18378346	-0.672980848
## 759	-0.310262311	-0.371882840	0.497899578	-0.18378346	0.399640434
## 760	0.212305664	-0.371882840	-0.673766565	-0.18378346	-0.261094276
## 761	-0.310262311	-0.371882840	0.886521516	-0.18378346	2.047186723
## 762	0.386494989	-0.371882840	0.364492047	-0.18378346	2.107253515
## 763	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 764	-0.310262311	-0.371882840	-0.488156087	-0.18378346	-0.672980848
## 765	-0.310262311	0.263617743	-0.580961326	-0.18378346	-0.398389800
## 766	-0.310262311	-0.371882840	1.536158189	-0.18378346	1.592395300
## 767	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 768	-0.310262311	-0.371882840	-0.331547246	-0.18378346	-0.672980848
## 769	-0.310262311	-0.371882840	-0.058931856	-0.18378346	0.210859088
## 770	0.952610295	0.204039563	0.561703179	6.28912525	1.815500527
## 771	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 772	-0.310262311	-0.371882840	1.582560808	-0.18378346	-0.672980848
## 773	-0.310262311	-0.371882840	-0.580961326	-0.18378346	-0.672980848
## 774	-0.310262311	-0.371882840	-0.343147901	-0.18378346	-0.226770395
## 775	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 776	0.430042320	-0.371882840	0.103477312	0.23782362	0.442545285
## 777	-0.310262311	-0.371882840	2.266999446	-0.18378346	-0.672980848
## 778	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 779	-0.310262311	-0.371882840	0.138279277	-0.18378346	-0.672980848
## 780	-0.310262311	-0.371882840	0.347091064	-0.18378346	0.210859088



## 781	-0.310262311	-0.371882840	-0.203940042	-0.18378346	-0.672980848
## 782	-0.310262311	-0.371882840	0.654508418	-0.18378346	-0.672980848
## 783	-0.310262311	-0.371882840	0.196282551	-0.18378346	0.176535207
## 784	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 785	-0.310262311	-0.371882840	2.127791587	-0.18378346	0.236601999
## 786	-0.310262311	0.640946214	0.086076330	-0.18378346	-0.012246139
## 787	1.584046599	-0.371882840	0.567503507	-0.18378346	0.451126255
## 788	-0.310262311	-0.371882840	1.043130357	-0.18378346	-0.672980848
## 789	-0.310262311	-0.371882840	-0.685367219	-0.18378346	-0.672980848
## 790	1.279215280	-0.371882840	-0.319946591	-0.18378346	0.579840809
## 791	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 792	-0.310262311	-0.371882840	-0.215540697	-0.18378346	-0.020827109
## 793	-0.310262311	0.462211675	1.483955242	-0.18378346	-0.672980848
## 794	-0.310262311	-0.371882840	-0.870977697	-0.18378346	-0.672980848
## 795	-0.310262311	0.243758349	-0.952182281	-0.18378346	-0.406970770
## 796	-0.310262311	-0.371882840	1.576760481	-0.18378346	0.991727382
## 797	-0.310262311	-0.371882840	-0.685367219	-0.18378346	-0.475618532
## 798	-0.310262311	-0.371882840	-0.546159361	-0.18378346	-0.672980848
## 799	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 800	-0.310262311	-0.371882840	0.161480586	-0.18378346	0.974565441
## 801	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 802	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 803	-0.310262311	-0.371882840	-0.714368857	-0.18378346	-0.672980848
## 804	-0.310262311	-0.371882840	0.149879931	-0.18378346	0.142211326
## 805	0.909062964	-0.371882840	0.028073055	-0.18378346	0.777203125
## 806	-0.114299321	-0.371882840	1.217140180	0.03942029	0.253763939
## 807	-0.310262311	-0.371882840	-0.099534148	-0.18378346	-0.672980848
## 808	-0.310262311	-0.371882840	0.480498595	1.03143695	0.597002750
## 809	-0.310262311	0.263617743	-0.952182281	-0.18378346	-0.672980848
## 810	4.175112809	-0.371882840	-0.656365582	-0.18378346	-0.672980848
## 811	-0.310262311	-0.371882840	0.091876657	-0.18378346	0.356735583
## 812	-0.310262311	-0.371882840	-0.012529237	-0.18378346	0.717136333
## 813	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 814	-0.310262311	-0.371882840	0.138279277	-0.18378346	1.755433735
## 815	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 816	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 817	-0.310262311	-0.371882840	2.197395516	-0.18378346	-0.672980848
## 818	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 819	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 820	-0.310262311	-0.371882840	0.428295648	-0.18378346	0.004915802
## 821	-0.310262311	-0.371882840	-0.140136440	-0.18378346	-0.192446514
## 822	3.478355509	-0.371882840	-0.447553795	-0.18378346	0.073563564
## 823	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 824	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 825	-0.310262311	2.686463715	0.091876657	-0.18378346	0.648488571
## 826	-0.310262311	-0.371882840	0.138279277	-0.18378346	1.755433735
## 827	-0.310262311	-0.371882840	0.381893029	-0.18378346	0.639907601
## 828	-0.310262311	-0.371882840	-0.035730547	-0.18378346	-0.672980848
## 829	-0.310262311	2.368713424	-0.952182281	-0.18378346	-0.672980848
## 830	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 831	-0.310262311	-0.371882840	-0.012529237	-0.18378346	-0.672980848
## 832	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.047186723
## 833	-0.310262311	-0.371882840	-0.128535786	-0.18378346	-0.672980848
## 834	-0.310262311	-0.371882840	-0.006728909	-0.18378346	-0.209608454

## 835	3.674318499	1.077852865	0.532701542	-0.18378346	0.262344910
## 836	-0.310262311	0.164320777	0.666109073	-0.18378346	-0.201027484
## 837	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 838	0.821968301	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 839	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 840	-0.310262311	2.428291603	0.277487135	6.80993400	1.446518805
## 841	-0.310262311	3.262386119	1.704367684	-0.18378346	0.897336709
## 842	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 843	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 844	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 845	1.475178270	-0.371882840	-0.476555432	-0.18378346	-0.286837187
## 846	-0.310262311	-0.371882840	-0.667966237	-0.18378346	-0.252513306
## 847	-0.310262311	-0.371882840	-0.192339387	-0.18378346	3.840609507
## 848	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 849	-0.310262311	-0.371882840	0.654508418	-0.18378346	-0.672980848
## 850	-0.310262311	-0.371882840	-0.325746918	-0.18378346	-0.672980848
## 851	-0.310262311	-0.371882840	1.275143454	-0.18378346	-0.123798752
## 852	1.453404605	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 853	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 854	0.952610295	-0.371882840	-0.279344299	-0.18378346	0.571259839
## 855	-0.310262311	3.560277017	0.196282551	-0.18378346	-0.106636811
## 856	-0.310262311	-0.371882840	1.292544436	-0.18378346	0.983146411
## 857	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 858	-0.310262311	0.700524393	0.944524790	-0.18378346	0.262344910
## 859	-0.310262311	-0.371882840	0.213683533	-0.18378346	0.554097899
## 860	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 861	-0.310262311	1.772931627	-0.151737095	0.28742446	-0.080893901
## 862	0.865515633	-0.371882840	0.306488772	-0.18378346	4.449858396
## 863	-0.310262311	-0.371882840	1.565159826	-0.18378346	-0.672980848
## 864	3.086429527	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 865	-0.310262311	0.382774102	0.608105799	-0.18378346	1.300642311
## 866	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 867	-0.310262311	1.991384953	-0.609962963	-0.18378346	-0.672980848
## 868	-0.310262311	-0.371882840	0.115077967	-0.18378346	0.905917679
## 869	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 870	-0.310262311	-0.371882840	-0.070532511	-0.18378346	0.193697148
## 871	-0.310262311	2.924776434	0.735713002	-0.18378346	-0.321161068
## 872	-0.310262311	-0.371882840	-0.401151175	-0.18378346	-0.269675246
## 873	-0.310262311	-0.371882840	-0.441753467	-0.18378346	0.082144534
## 874	-0.310262311	-0.371882840	1.280943781	-0.18378346	0.923079620
## 875	-0.136072986	-0.213007695	1.077932321	-0.18378346	-0.046570020
## 876	-0.310262311	0.144461383	-0.192339387	-0.18378346	-0.449875622
## 877	-0.136072986	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 878	-0.310262311	-0.371882840	-0.464954777	-0.18378346	-0.312580098
## 879	0.146984667	-0.371882840	-0.830375405	-0.18378346	0.236601999
## 880	0.125211001	2.726182502	0.132478949	0.83303362	0.039239683
## 881	-0.310262311	-0.371882840	0.051274365	-0.18378346	0.064982594
## 882	-0.310262311	1.336024976	-0.754971149	0.23782362	-0.235351365
## 883	-0.310262311	-0.371882840	1.292544436	-0.18378346	-0.123798752
## 884	-0.310262311	-0.371882840	-0.638964600	-0.18378346	-0.672980848
## 885	0.059890004	-0.213007695	-0.256142989	-0.18378346	2.021443813
## 886	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 887	-0.310262311	-0.371882840	-0.122735458	-0.18378346	-0.672980848
## 888	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848

## 889	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 890	-0.310262311	1.236728010	-0.766571803	0.21302321	0.167954237
## 891	-0.310262311	-0.371882840	0.347091064	-0.18378346	-0.037989049
## 892	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.003665168
## 893	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 894	0.691326308	0.541649248	0.654508418	-0.18378346	1.309223281
## 895	-0.310262311	-0.371882840	-0.180738732	0.11382154	-0.158122633
## 896	-0.310262311	-0.371882840	-0.354748556	-0.18378346	-0.672980848
## 897	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 898	-0.310262311	-0.371882840	0.532701542	0.78343279	0.511193047
## 899	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 900	-0.310262311	0.482071068	-0.702768202	-0.18378346	-0.672980848
## 901	-0.310262311	1.772931627	-0.209740370	0.28742446	-0.089474871
## 902	-0.310262311	-0.371882840	-0.099534148	-0.18378346	-0.046570020
## 903	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 904	0.168758332	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 905	-0.310262311	-0.371882840	-0.667966237	-0.18378346	-0.672980848
## 906	-0.310262311	-0.371882840	-0.360548883	-0.18378346	-0.672980848
## 907	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 908	-0.310262311	0.164320777	-0.325746918	-0.18378346	-0.441294651
## 909	-0.310262311	-0.371882840	0.335490409	5.32190901	-0.672980848
## 910	1.170346952	-0.371882840	-0.557760016	-0.18378346	-0.672980848
## 911	-0.310262311	-0.371882840	0.306488772	-0.18378346	1.189089698
## 912	-0.310262311	-0.371882840	0.573303834	-0.18378346	-0.672980848
## 913	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 914	-0.310262311	-0.371882840	1.193938870	-0.18378346	-0.672980848
## 915	5.633948406	0.700524393	1.895778490	-0.18378346	1.197670668
## 916	-0.310262311	-0.371882840	0.097676984	-0.18378346	-0.672980848
## 917	-0.310262311	-0.371882840	-0.093733821	-0.18378346	0.597002750
## 918	0.865515633	-0.371882840	0.822717914	-0.18378346	0.622745661
## 919	0.626005311	0.482071068	0.045474038	-0.18378346	0.064982594
## 920	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 921	-0.310262311	-0.371882840	0.486298923	-0.18378346	2.519140088
## 922	-0.310262311	-0.371882840	-0.343147901	-0.18378346	-0.672980848
## 923	10.837854493	-0.371882840	0.532701542	2.99066986	3.720475924
## 924	15.236134950	-0.371882840	-0.952182281	5.71871567	1.369290073
## 925	-0.310262311	1.832509807	0.590704817	-0.18378346	0.845850887
## 926	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 927	-0.310262311	-0.371882840	-0.499756741	-0.18378346	-0.338323008
## 928	0.778420970	-0.371882840	-0.882578352	-0.18378346	-0.672980848
## 929	-0.310262311	-0.371882840	-0.215540697	-0.18378346	-0.020827109
## 930	-0.310262311	-0.371882840	1.211339852	-0.18378346	1.729690824
## 931	-0.310262311	1.772931627	-0.151737095	0.28742446	-0.080893901
## 932	-0.310262311	2.348854031	0.045474038	-0.18378346	0.210859088
## 933	-0.310262311	-0.371882840	-0.256142989	-0.18378346	0.562678869
## 934	-0.310262311	-0.371882840	1.246141817	-0.18378346	-0.672980848
## 935	0.430042320	0.303336529	-0.557760016	0.65943070	-0.381227860
## 936	2.411445893	-0.371882840	0.857519879	-0.18378346	-0.140960692
## 937	-0.310262311	-0.371882840	-0.592561980	-0.18378346	-0.672980848
## 938	0.996157627	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 939	1.322762611	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 940	-0.310262311	-0.371882840	-0.505557069	-0.18378346	1.317804252
## 941	-0.310262311	2.686463715	0.712511693	-0.18378346	0.648488571
## 942	-0.310262311	-0.371882840	3.044243322	-0.18378346	-0.672980848

## 943	-0.310262311	1.435321942	-0.424352485	-0.18378346	-0.286837187
## 944	-0.310262311	2.348854031	-0.354748556	-0.18378346	0.210859088
## 945	-0.310262311	-0.371882840	-0.192339387	-0.18378346	3.840609507
## 946	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 947	-0.310262311	0.005445631	-0.151737095	-0.18378346	-0.252513306
## 948	-0.310262311	-0.371882840	-0.430152812	-0.18378346	-0.672980848
## 949	-0.310262311	1.316165583	-0.952182281	-0.18378346	-0.672980848
## 950	6.112969050	-0.371882840	1.449153277	5.66911484	1.352128133
## 951	1.823556921	-0.371882840	0.468897940	-0.18378346	1.429356865
## 952	-0.310262311	-0.371882840	1.565159826	-0.18378346	-0.672980848
## 953	-0.310262311	-0.371882840	-0.772372131	-0.18378346	-0.672980848
## 954	0.843741967	0.680665000	0.584904489	-0.18378346	1.600976270
## 955	1.584046599	0.005445631	0.909722826	-0.18378346	1.412194924
## 956	-0.310262311	-0.371882840	-0.534558706	-0.18378346	-0.672980848
## 957	-0.310262311	-0.371882840	0.753113985	-0.18378346	-0.672980848
## 958	0.495363317	-0.371882840	-0.737570166	-0.18378346	-0.355484949
## 959	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 960	0.342947658	-0.371882840	1.947981437	-0.18378346	0.828688947
## 961	-0.310262311	1.415462549	1.657965065	-0.18378346	0.099306475
## 962	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 963	-0.310262311	-0.371882840	-0.615763290	-0.18378346	-0.175284573
## 964	-0.310262311	2.686463715	0.091876657	-0.18378346	0.648488571
## 965	-0.310262311	-0.371882840	1.234541162	-0.18378346	0.940241560
## 966	1.192120617	-0.252726481	0.422495321	-0.18378346	0.219440058
## 967	0.669552642	-0.371882840	0.631307109	-0.18378346	0.494031107
## 968	-0.310262311	-0.371882840	0.422495321	1.05623737	0.631326631
## 969	-0.310262311	0.601227427	0.619706454	-0.18378346	0.382478493
## 970	-0.310262311	-0.371882840	2.951438083	-0.18378346	0.974565441
## 971	-0.310262311	-0.371882840	1.512956879	-0.18378346	-0.672980848
## 972	-0.310262311	-0.371882840	-0.221341024	-0.18378346	-0.132379722
## 973	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 974	-0.310262311	-0.371882840	-0.337347573	-0.18378346	0.236601999
## 975	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 976	-0.310262311	-0.371882840	1.512956879	-0.18378346	1.146184846
## 977	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 978	-0.310262311	-0.371882840	0.028073055	-0.18378346	-0.192446514
## 979	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 980	-0.310262311	-0.371882840	2.458410251	-0.18378346	-0.115217782
## 981	-0.310262311	-0.371882840	0.410894666	-0.18378346	-0.561428235
## 982	-0.310262311	-0.371882840	0.242685170	-0.18378346	0.210859088
## 983	-0.310262311	-0.272585874	-0.830375405	-0.18378346	-0.535685324
## 984	-0.310262311	2.726182502	2.214796499	-0.18378346	2.673597552
## 985	-0.310262311	-0.371882840	-0.679566892	0.98183612	0.965984471
## 986	-0.310262311	-0.371882840	-0.737570166	-0.18378346	-0.355484949
## 987	-0.310262311	0.005445631	-0.151737095	-0.18378346	-0.252513306
## 988	-0.310262311	-0.371882840	0.474698268	-0.18378346	-0.672980848
## 989	-0.310262311	-0.371882840	-0.209740370	-0.18378346	1.523747538
## 990	-0.310262311	-0.371882840	-0.302545609	-0.18378346	0.485450136
## 991	-0.310262311	-0.371882840	-0.534558706	-0.18378346	-0.672980848
## 992	-0.310262311	3.063792186	-0.702768202	-0.18378346	-0.303999127
## 993	-0.201393983	-0.034273156	0.793716277	6.28912525	0.614164690
## 994	-0.310262311	-0.371882840	-0.296745281	-0.18378346	-0.432713681
## 995	0.059890004	0.323195922	-0.232941679	0.23782362	0.545516928
## 996	5.459759081	-0.371882840	-0.441753467	-0.18378346	-0.672980848

## 997	-0.310262311	-0.371882840	0.358691719	-0.18378346	3.205617708
## 998	-0.310262311	-0.371882840	3.340060021	-0.18378346	-0.672980848
## 999	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1000	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1001	-0.310262311	2.189978885	1.054731011	-0.18378346	0.811527006
## 1002	-0.310262311	-0.371882840	0.091876657	-0.18378346	3.960743091
## 1003	-0.310262311	-0.371882840	0.927123808	-0.18378346	-0.123798752
## 1004	-0.310262311	-0.371882840	-0.354748556	-0.18378346	-0.672980848
## 1005	-0.310262311	-0.371882840	7.330685297	-0.18378346	5.453831916
## 1006	-0.310262311	-0.371882840	-0.412751830	-0.18378346	2.527721058
## 1007	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1008	-0.310262311	3.937605488	-0.952182281	-0.18378346	-0.672980848
## 1009	-0.310262311	-0.371882840	-0.836175733	-0.18378346	-0.501361443
## 1010	-0.310262311	-0.371882840	-0.221341024	-0.18378346	-0.132379722
## 1011	-0.310262311	-0.371882840	-0.366349210	-0.18378346	-0.672980848
## 1012	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1013	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1014	-0.310262311	-0.371882840	-0.952182281	-0.18378346	2.622111731
## 1015	-0.310262311	-0.371882840	1.512956879	-0.18378346	1.146184846
## 1016	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1017	-0.310262311	-0.371882840	0.207883206	-0.18378346	-0.389808830
## 1018	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.132379722
## 1019	-0.310262311	-0.371882840	4.320315358	-0.18378346	-0.672980848
## 1020	-0.310262311	-0.113710728	0.869120533	0.46102737	0.562678869
## 1021	0.821968301	-0.371882840	1.675366047	-0.18378346	1.043213203
## 1022	-0.310262311	-0.371882840	0.712511693	-0.18378346	0.965984471
## 1023	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1024	-0.310262311	-0.371882840	0.352891392	-0.18378346	0.288087821
## 1025	-0.310262311	-0.371882840	-0.006728909	-0.18378346	-0.672980848
## 1026	-0.310262311	-0.371882840	0.352891392	-0.18378346	-0.672980848
## 1027	2.389672227	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1028	-0.310262311	-0.371882840	-0.047331201	-0.18378346	1.008889322
## 1029	-0.310262311	-0.371882840	-0.325746918	-0.18378346	-0.672980848
## 1030	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1031	-0.310262311	-0.371882840	0.979326755	-0.18378346	-0.672980848
## 1032	-0.310262311	-0.371882840	0.950325118	-0.18378346	-0.115217782
## 1033	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1034	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1035	-0.310262311	-0.371882840	-0.285144626	-0.05978138	0.116468415
## 1036	0.865515633	-0.371882840	-0.006728909	-0.18378346	-0.672980848
## 1037	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1038	-0.310262311	-0.371882840	0.944524790	-0.18378346	2.132996426
## 1039	0.212305664	0.104742597	1.060531339	-0.18378346	1.094699025
## 1040	-0.310262311	-0.371882840	2.910835791	-0.18378346	-0.672980848
## 1041	0.800194636	0.640946214	0.550102524	-0.18378346	3.771961745
## 1042	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1043	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1044	-0.310262311	-0.371882840	0.573303834	-0.18378346	2.330358742
## 1045	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1046	-0.310262311	-0.371882840	-0.952182281	-0.18378346	0.682812452
## 1047	-0.310262311	-0.371882840	-0.882578352	-0.18378346	-0.672980848
## 1048	-0.310262311	-0.371882840	2.098789950	-0.18378346	-0.672980848
## 1049	-0.310262311	-0.371882840	1.367948693	-0.18378346	-0.672980848
## 1050	-0.310262311	-0.371882840	0.352891392	-0.18378346	0.288087821

```

## 1051 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1052 -0.310262311 5.129169081 -0.952182281 -0.18378346 -0.672980848
## 1053 -0.310262311 -0.371882840 0.306488772 -0.18378346 -0.672980848
## 1054 -0.310262311 -0.371882840 0.915523153 -0.18378346 1.171927757
## 1055 -0.310262311 0.700524393 0.938724463 -0.18378346 0.253763939
## 1056 -0.310262311 6.439889033 0.039673710 -0.18378346 1.120441936
## 1057 0.059890004 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1058 -0.310262311 0.601227427 0.619706454 -0.18378346 0.382478493
## 1059 -0.310262311 0.740243180 1.008328392 -0.18378346 0.288087821
## 1060 -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 1061 0.059890004 -0.213007695 -0.256142989 -0.18378346 2.047186723
## 1062 1.780009589 -0.371882840 1.275143454 -0.18378346 0.150792296
## 1063 -0.310262311 -0.371882840 0.144079604 -0.18378346 0.133630356
## 1064 -0.310262311 -0.371882840 0.753113985 -0.18378346 -0.672980848
## 1065 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.535685324
## 1066 -0.310262311 -0.371882840 0.300688445 -0.18378346 -0.209608454
## 1067 -0.310262311 0.918977719 -0.476555432 -0.18378346 -0.672980848
## 1068 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1069 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 1070 -0.310262311 -0.371882840 1.634763755 -0.18378346 0.854431858
## 1071 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1072 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1073 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1074 -0.310262311 0.045164417 -0.586761653 -0.18378346 -0.406970770
## 1075 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1076 -0.310262311 -0.371882840 1.060531339 -0.18378346 0.811527006
## 1077 -0.310262311 -0.371882840 -0.691167547 -0.18378346 -0.501361443
## 1078 -0.310262311 -0.371882840 0.045474038 -0.18378346 -0.672980848
## 1079 -0.310262311 -0.371882840 -0.169138078 -0.18378346 0.485450136
## 1080 -0.310262311 -0.371882840 0.979326755 -0.18378346 5.041945344
## 1081 -0.310262311 -0.371882840 -0.563560343 -0.18378346 -0.672980848
## 1082 1.213894283 -0.371882840 -0.140136440 -0.18378346 0.528354988
## 1083 -0.310262311 0.760102573 1.031529702 -0.18378346 0.305249761
## 1084 -0.310262311 -0.371882840 0.016472400 -0.18378346 0.760041185
## 1085 -0.310262311 3.520558230 0.184681896 -0.18378346 -0.672980848
## 1086 1.932425249 -0.034273156 0.149879931 3.66028110 2.596368820
## 1087 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1088 0.604231645 -0.371882840 0.857519879 -0.18378346 0.494031107
## 1089 -0.310262311 -0.371882840 0.671909401 -0.18378346 0.125049386
## 1090 -0.310262311 -0.371882840 1.640564082 -0.18378346 0.605583720
## 1091 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1092 -0.310262311 0.760102573 -0.621563618 -0.18378346 -0.672980848
## 1093 -0.310262311 -0.272585874 -0.830375405 -0.18378346 -0.535685324
## 1094 1.148573286 0.958696505 1.396950330 -0.18378346 0.485450136
## 1095 2.411445893 -0.371882840 1.715968339 -0.18378346 1.300642311
## 1096 0.103437336 3.441120657 0.271686808 2.66826444 0.313830731
## 1097 -0.310262311 2.527588569 -0.348948228 -0.18378346 -0.501361443
## 1098 0.168758332 1.395603156 0.086076330 -0.18378346 1.729690824
## 1099 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1100 -0.048978324 -0.371882840 0.080276002 -0.18378346 -0.235351365
## 1101 -0.310262311 -0.371882840 -0.111134803 -0.18378346 0.571259839
## 1102 -0.310262311 1.197009224 0.666109073 -0.18378346 1.034632233
## 1103 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1104 -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.672980848

```

##	1105	-0.005430993	-0.292445267	-0.064732184	0.41142654	0.382478493
##	1106	1.584046599	-0.371882840	0.567503507	-0.18378346	0.820107977
##	1107	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1108	-0.310262311	-0.371882840	-0.441753467	-0.18378346	0.082144534
##	1109	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1110	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.398389800
##	1111	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.003665168
##	1112	-0.310262311	-0.371882840	-0.604162635	-0.18378346	0.365316553
##	1113	-0.310262311	-0.371882840	0.979326755	-0.18378346	-0.672980848
##	1114	-0.310262311	-0.371882840	1.019929047	-0.18378346	0.880174768
##	1115	6.940368344	-0.371882840	-0.952182281	-0.18378346	5.041945344
##	1116	-0.310262311	-0.371882840	0.463097613	-0.18378346	0.022077743
##	1117	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1118	-0.310262311	-0.371882840	0.550102524	1.08103778	0.657069542
##	1119	-0.310262311	-0.371882840	0.236884843	-0.18378346	-0.672980848
##	1120	1.518725602	-0.371882840	0.022272728	-0.18378346	-0.672980848
##	1121	-0.310262311	-0.371882840	-0.615763290	-0.18378346	-0.672980848
##	1122	3.129976859	2.765901288	1.344747383	-0.18378346	0.682812452
##	1123	-0.310262311	-0.371882840	-0.772372131	-0.18378346	-0.672980848
##	1124	0.277626661	-0.371882840	-0.482355759	-0.18378346	-0.209608454
##	1125	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1126	-0.310262311	-0.371882840	-0.754971149	2.34585903	-0.089474871
##	1127	0.190531998	-0.371882840	-0.952182281	-0.18378346	-0.080893901
##	1128	-0.310262311	-0.371882840	-0.290944954	-0.18378346	-0.672980848
##	1129	-0.310262311	-0.371882840	0.874920861	-0.18378346	0.228021029
##	1130	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1131	-0.310262311	-0.371882840	2.266999446	-0.18378346	1.703947913
##	1132	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1133	-0.310262311	-0.371882840	0.753113985	-0.18378346	-0.672980848
##	1134	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1135	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.020827109
##	1136	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1137	0.103437336	3.838308522	0.277487135	2.66826444	0.313830731
##	1138	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1139	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1140	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1141	-0.310262311	-0.371882840	-0.679566892	0.98183612	0.965984471
##	1142	1.758235924	-0.371882840	0.985127082	-0.18378346	0.965984471
##	1143	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1144	5.786364066	-0.371882840	1.327346401	-0.18378346	0.768622155
##	1145	-0.310262311	-0.371882840	1.263542799	-0.18378346	-0.209608454
##	1146	3.064655862	-0.371882840	1.889978162	-0.18378346	1.540909478
##	1147	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1148	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1149	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1150	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1151	0.408268654	-0.371882840	-0.760771476	-0.18378346	-0.672980848
##	1152	-0.310262311	3.679433376	-0.952182281	-0.18378346	-0.672980848
##	1153	-0.310262311	0.561508641	0.573303834	-0.18378346	-0.269675246
##	1154	-0.310262311	-0.371882840	-0.783972786	-0.18378346	-0.672980848
##	1155	2.041293577	-0.371882840	0.613906126	-0.18378346	-0.209608454
##	1156	-0.310262311	-0.371882840	0.468897940	-0.18378346	-0.672980848
##	1157	-0.310262311	3.063792186	1.060531339	-0.18378346	0.811527006
##	1158	-0.310262311	-0.371882840	-0.865177370	-0.18378346	-0.672980848

##	1159	2.563861552	-0.371882840	-0.186539060	-0.18378346	0.459707226
##	1160	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1161	-0.310262311	-0.371882840	0.312289100	-0.18378346	1.669624032
##	1162	-0.310262311	-0.371882840	-0.314146263	-0.18378346	-0.441294651
##	1163	1.562272933	0.482071068	-0.203940042	-0.18378346	3.411560995
##	1164	-0.310262311	-0.371882840	3.746082942	-0.18378346	-0.672980848
##	1165	-0.310262311	-0.371882840	0.138279277	-0.18378346	-0.672980848
##	1166	-0.310262311	1.554478302	-0.105334476	-0.18378346	0.159373267
##	1167	-0.310262311	0.918977719	-0.476555432	-0.18378346	-0.672980848
##	1168	-0.310262311	-0.371882840	0.410894666	-0.18378346	2.347520683
##	1169	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1170	1.671141261	-0.371882840	-0.952182281	-0.18378346	0.107887445
##	1171	-0.310262311	-0.371882840	-0.343147901	-0.18378346	0.228021029
##	1172	-0.310262311	-0.371882840	-0.673766565	-0.18378346	-0.672980848
##	1173	-0.310262311	0.581368034	-0.395350848	-0.18378346	-0.672980848
##	1174	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1175	-0.310262311	-0.371882840	-0.789773113	-0.18378346	-0.672980848
##	1176	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1177	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1178	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1179	0.212305664	-0.371882840	-0.952182281	-0.18378346	-0.037989049
##	1180	-0.310262311	-0.371882840	-0.412751830	0.95703570	0.528354988
##	1181	1.344536277	2.150260098	0.231084516	-0.18378346	-0.020827109
##	1182	-0.310262311	-0.371882840	3.189251508	-0.18378346	-0.672980848
##	1183	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1184	1.758235924	0.084883204	0.149879931	0.68423112	-0.372646889
##	1185	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1186	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1187	-0.310262311	-0.371882840	1.420151640	-0.18378346	-0.672980848
##	1188	-0.310262311	-0.371882840	0.457297286	-0.18378346	-0.672980848
##	1189	-0.310262311	-0.371882840	-0.163337750	-0.18378346	-0.672980848
##	1190	1.170346952	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1191	1.105025955	-0.371882840	-0.383750193	0.21302321	0.442545285
##	1192	-0.310262311	-0.371882840	0.753113985	-0.18378346	-0.672980848
##	1193	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1194	-0.027204658	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1195	-0.310262311	-0.371882840	1.402750658	-0.18378346	0.717136333
##	1196	-0.310262311	0.184180170	-0.459154449	-0.18378346	-0.552847265
##	1197	-0.310262311	1.594197088	-0.760771476	-0.18378346	-0.106636811
##	1198	-0.310262311	0.621086821	0.805316932	0.63463029	1.197670668
##	1199	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1200	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1201	-0.310262311	-0.371882840	-0.377949865	-0.18378346	-0.672980848
##	1202	-0.310262311	0.581368034	-0.395350848	-0.18378346	-0.672980848
##	1203	-0.310262311	-0.371882840	1.019929047	-0.18378346	0.494031107
##	1204	-0.310262311	-0.371882840	0.480498595	-0.18378346	0.176535207
##	1205	0.996157627	-0.371882840	0.103477312	1.30424153	0.519774018
##	1206	-0.070751989	-0.153429515	-0.064732184	0.53542862	0.442545285
##	1207	-0.310262311	1.097712258	-0.952182281	-0.18378346	-0.672980848
##	1208	0.517136983	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1209	-0.310262311	1.415462549	-0.430152812	-0.18378346	-0.672980848
##	1210	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	1211	-0.310262311	-0.173288908	-0.389550520	-0.18378346	-0.587171146
##	1212	1.431630939	-0.371882840	-0.024129892	-0.18378346	1.386452014



```

## 1213 -0.310262311 3.937605488 2.829631207 -0.18378346 1.189089698
## 1214 -0.310262311 -0.371882840 -0.696967874 -0.18378346 -0.672980848
## 1215 -0.310262311 0.263617743 -0.209740370 -0.18378346 -0.398389800
## 1216 -0.310262311 -0.371882840 0.376092701 -0.18378346 -0.672980848
## 1217 -0.310262311 -0.371882840 0.231084516 -0.18378346 1.077537084
## 1218 -0.310262311 -0.371882840 0.915523153 -0.18378346 -0.672980848
## 1219 -0.310262311 -0.371882840 0.544302197 0.60982987 0.991727382
## 1220 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1221 -0.310262311 -0.371882840 1.193938870 -0.18378346 -0.672980848
## 1222 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1223 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1224 -0.310262311 -0.371882840 -0.644764927 -0.18378346 -0.672980848
## 1225 -0.310262311 -0.371882840 0.532701542 -0.18378346 -0.672980848
## 1226 -0.310262311 -0.371882840 0.393493684 -0.18378346 -0.672980848
## 1227 -0.310262311 -0.371882840 0.306488772 -0.18378346 1.189089698
## 1228 -0.310262311 2.587166749 -0.952182281 -0.18378346 0.605583720
## 1229 -0.310262311 -0.371882840 0.335490409 -0.18378346 -0.672980848
## 1230 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1231 -0.310262311 -0.371882840 0.550102524 -0.18378346 -0.672980848
## 1232 -0.310262311 -0.371882840 1.588361136 -0.18378346 -0.175284573
## 1233 1.039704958 -0.371882840 1.222940507 -0.18378346 2.270291950
## 1234 -0.310262311 -0.371882840 0.265886480 -0.18378346 -0.072312930
## 1235 -0.310262311 3.937605488 2.829631207 -0.18378346 1.189089698
## 1236 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1237 -0.310262311 -0.371882840 0.816917587 -0.18378346 -0.672980848
## 1238 -0.310262311 -0.371882840 0.213683533 -0.18378346 2.227387099
## 1239 -0.310262311 1.375743763 0.335490409 -0.18378346 1.231994549
## 1240 -0.310262311 1.057993471 -0.702768202 0.16342237 -0.175284573
## 1241 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1242 -0.310262311 -0.371882840 -0.180738732 0.11382154 -0.158122633
## 1243 -0.310262311 -0.371882840 -0.354748556 -0.18378346 1.094699025
## 1244 -0.310262311 -0.371882840 -0.325746918 -0.18378346 1.189089698
## 1245 -0.310262311 -0.371882840 -0.952182281 -0.18378346 2.278872920
## 1246 -0.310262311 -0.371882840 0.532701542 0.78343279 0.511193047
## 1247 -0.310262311 -0.371882840 -0.609962963 -0.18378346 -0.166703603
## 1248 -0.310262311 -0.371882840 2.098789950 -0.18378346 0.451126255
## 1249 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1250 -0.310262311 -0.371882840 0.277487135 -0.18378346 -0.672980848
## 1251 -0.310262311 -0.371882840 -0.018329564 -0.18378346 -0.672980848
## 1252 -0.310262311 -0.371882840 -0.441753467 -0.18378346 0.082144534
## 1253 -0.310262311 -0.371882840 -0.389550520 -0.18378346 0.159373267
## 1254 -0.310262311 -0.371882840 -0.058931856 -0.18378346 0.210859088
## 1255 0.495363317 -0.232867088 0.880721188 -0.18378346 0.536935958
## 1256 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1257 -0.310262311 -0.371882840 -0.528758379 -0.18378346 -0.672980848
## 1258 -0.310262311 -0.371882840 1.176537888 -0.18378346 -0.046570020
## 1259 -0.310262311 -0.371882840 -0.818774750 -0.18378346 -0.672980848
## 1260 -0.310262311 2.229697671 0.880721188 -0.18378346 0.004915802
## 1261 -0.310262311 1.872228593 0.364492047 -0.18378346 -0.672980848
## 1262 -0.310262311 -0.371882840 1.849375870 -0.18378346 -0.672980848
## 1263 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1264 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1265 -0.310262311 -0.371882840 0.062875020 -0.18378346 1.206251638
## 1266 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

```

## 1267 -0.310262311 1.832509807 -0.192339387 0.31222487 -0.072312930
## 1268 -0.310262311 -0.371882840 0.468897940 -0.18378346 -0.672980848
## 1269 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.605583720
## 1270 -0.310262311 -0.371882840 0.242685170 -0.18378346 -0.672980848
## 1271 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848
## 1272 -0.310262311 -0.371882840 0.706711365 5.12350568 1.043213203
## 1273 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.511193047
## 1274 -0.310262311 2.825479468 -0.331547246 -0.18378346 -0.672980848
## 1275 0.168758332 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1276 -0.310262311 -0.371882840 -0.633164272 -0.18378346 0.279506850
## 1277 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1278 -0.136072986 1.475040729 -0.018329564 0.23782362 -0.312580098
## 1279 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1280 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1281 1.192120617 -0.272585874 1.507156551 0.38662612 0.219440058
## 1282 -0.310262311 -0.371882840 0.016472400 -0.18378346 -0.672980848
## 1283 0.495363317 0.362914709 -0.093733821 -0.18378346 1.558071419
## 1284 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1285 -0.310262311 -0.232867088 1.135935596 -0.18378346 0.442545285
## 1286 -0.310262311 -0.371882840 0.289087790 -0.18378346 -0.672980848
## 1287 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1288 -0.310262311 -0.371882840 1.808773578 -0.18378346 1.369290073
## 1289 0.364721323 -0.371882840 0.526901215 -0.18378346 2.064348664
## 1290 -0.310262311 -0.371882840 -0.035730547 -0.18378346 -0.672980848
## 1291 0.408268654 -0.371882840 -0.760771476 -0.18378346 -0.672980848
## 1292 -0.310262311 -0.371882840 -0.192339387 -0.18378346 -0.672980848
## 1293 -0.310262311 -0.371882840 -0.766571803 -0.18378346 -0.672980848
## 1294 -0.310262311 3.421261264 0.155680259 0.98183612 0.554097899
## 1295 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1296 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1297 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1298 -0.310262311 -0.371882840 0.207883206 -0.18378346 -0.672980848
## 1299 -0.310262311 -0.252726481 -0.807174096 -0.18378346 -0.518523384
## 1300 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1301 -0.310262311 1.415462549 1.286744109 -0.18378346 0.296668791
## 1302 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1303 -0.310262311 -0.371882840 0.480498595 -0.18378346 -0.372646889
## 1304 -0.310262311 -0.371882840 -0.372149538 -0.18378346 -0.672980848
## 1305 1.039704958 -0.371882840 -0.592561980 -0.18378346 0.923079620
## 1306 -0.310262311 -0.371882840 -0.256142989 -0.18378346 2.424749415
## 1307 0.952610295 -0.371882840 0.399294011 -0.18378346 -0.672980848
## 1308 -0.310262311 0.045164417 -0.087933493 -0.18378346 -0.312580098
## 1309 -0.310262311 -0.371882840 1.634763755 2.02345361 0.090725505
## 1310 0.299400326 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1311 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1312 -0.310262311 2.130400705 -0.952182281 -0.18378346 -0.672980848
## 1313 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1314 0.038116339 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1315 -0.310262311 1.236728010 -0.766571803 0.21302321 0.167954237
## 1316 1.649367596 -0.371882840 0.625506781 -0.18378346 2.441911355
## 1317 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1318 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1319 -0.310262311 -0.371882840 1.431752295 -0.18378346 -0.175284573
## 1320 1.475178270 -0.371882840 -0.476555432 -0.18378346 -0.286837187

```

```

## 1321 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1322 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1323 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1324 1.388083608 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1325 -0.310262311 -0.371882840 1.263542799 -0.18378346 -0.672980848
## 1326 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1327 -0.310262311 -0.371882840 -0.256142989 -0.18378346 0.356735583
## 1328 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 1329 -0.310262311 -0.232867088 1.135935596 -0.18378346 0.442545285
## 1330 -0.310262311 -0.371882840 -0.749170821 -0.18378346 0.554097899
## 1331 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1332 -0.310262311 -0.371882840 0.225284188 -0.18378346 -0.484199503
## 1333 -0.310262311 -0.371882840 0.254285825 -0.18378346 2.896702779
## 1334 -0.310262311 -0.371882840 -0.366349210 -0.18378346 -0.098055841
## 1335 0.821968301 -0.371882840 1.391150003 -0.18378346 1.592395300
## 1336 -0.310262311 -0.371882840 0.573303834 -0.18378346 1.583814330
## 1337 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1338 -0.310262311 3.679433376 -0.952182281 -0.18378346 -0.672980848
## 1339 -0.310262311 0.819680753 1.164937233 -0.18378346 0.365316553
## 1340 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1341 1.344536277 0.283477136 -0.070532511 0.63463029 -0.243932335
## 1342 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1343 -0.310262311 -0.371882840 0.022272728 -0.18378346 -0.672980848
## 1344 -0.310262311 -0.371882840 0.254285825 -0.18378346 1.558071419
## 1345 -0.310262311 -0.371882840 0.173081241 -0.18378346 -0.303999127
## 1346 -0.310262311 -0.371882840 0.793716277 -0.18378346 -0.672980848
## 1347 -0.310262311 -0.371882840 -0.337347573 -0.18378346 -0.672980848
## 1348 -0.310262311 -0.371882840 -0.447553795 -0.18378346 -0.672980848
## 1349 -0.310262311 -0.371882840 -0.615763290 -0.18378346 -0.672980848
## 1350 1.257441614 -0.252726481 1.646364410 0.41142654 0.313830731
## 1351 -0.310262311 -0.371882840 -0.540359033 -0.18378346 -0.372646889
## 1352 -0.310262311 -0.371882840 0.428295648 -0.18378346 0.348154612
## 1353 1.213894283 0.323195922 0.265886480 7.62834774 1.129022906
## 1354 -0.310262311 -0.371882840 0.613906126 -0.18378346 0.356735583
## 1355 3.935602487 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1356 -0.310262311 -0.371882840 -0.435953140 -0.18378346 -0.672980848
## 1357 -0.310262311 0.541649248 0.028073055 -0.18378346 -0.672980848
## 1358 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1359 -0.310262311 -0.371882840 -0.464954777 -0.18378346 -0.312580098
## 1360 -0.310262311 -0.371882840 -0.818774750 -0.18378346 -0.672980848
## 1361 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1362 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1363 -0.310262311 -0.093851335 0.410894666 0.16342237 0.082144534
## 1364 -0.310262311 -0.371882840 1.623163100 -0.18378346 -0.672980848
## 1365 1.192120617 -0.371882840 -0.952182281 -0.18378346 -0.527104354
## 1366 -0.310262311 3.043932793 -0.453354122 -0.18378346 -0.672980848
## 1367 -0.310262311 -0.371882840 -0.203940042 -0.18378346 3.780542716
## 1368 -0.310262311 -0.371882840 -0.047331201 15.31647686 0.665650512
## 1369 -0.310262311 -0.371882840 -0.952182281 -0.18378346 0.408221404
## 1370 -0.310262311 1.395603156 0.347091064 -0.18378346 0.476869166
## 1371 -0.310262311 -0.371882840 -0.604162635 -0.18378346 -0.672980848
## 1372 2.259030233 -0.371882840 -0.493956414 0.78343279 -0.672980848
## 1373 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1374 -0.310262311 -0.371882840 0.532701542 -0.18378346 0.425383345

```

```

## 1375 0.255852995 -0.272585874 -0.830375405 -0.18378346 -0.544266295
## 1376 -0.310262311 2.070822525 -0.238742007 -0.18378346 0.382478493
## 1377 0.887289298 -0.371882840 -0.899979335 -0.18378346 -0.672980848
## 1378 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1379 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1380 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1381 -0.310262311 -0.371882840 -0.099534148 -0.18378346 0.588421780
## 1382 -0.310262311 -0.371882840 2.910835791 -0.18378346 -0.672980848
## 1383 1.562272933 -0.371882840 1.060531339 -0.18378346 0.811527006
## 1384 -0.310262311 1.753072234 0.294888117 -0.18378346 -0.672980848
## 1385 0.212305664 -0.371882840 1.623163100 -0.18378346 0.871593798
## 1386 -0.310262311 -0.213007695 -0.447553795 -0.18378346 -0.604333086
## 1387 -0.310262311 -0.371882840 0.416694993 -0.18378346 -0.003665168
## 1388 -0.310262311 0.045164417 -0.952182281 -0.18378346 -0.672980848
## 1389 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1390 2.498540555 -0.371882840 -0.203940042 12.68763271 0.433964315
## 1391 -0.310262311 -0.371882840 0.416694993 -0.18378346 -0.003665168
## 1392 -0.310262311 -0.371882840 0.207883206 -0.18378346 6.191795358
## 1393 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1394 -0.310262311 -0.371882840 -0.221341024 -0.18378346 -0.672980848
## 1395 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1396 0.016342673 -0.371882840 -0.865177370 -0.18378346 -0.612914057
## 1397 -0.310262311 -0.371882840 2.029186021 -0.18378346 0.305249761
## 1398 -0.310262311 -0.371882840 0.979326755 -0.18378346 -0.672980848
## 1399 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1400 -0.310262311 -0.371882840 -0.760771476 -0.18378346 -0.672980848
## 1401 -0.310262311 -0.312304661 -0.870977697 -0.18378346 -0.587171146
## 1402 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.080893901
## 1403 1.431630939 1.216868617 -0.024129892 -0.18378346 0.699974393
## 1404 -0.310262311 -0.371882840 1.072131994 -0.18378346 0.519774018
## 1405 -0.310262311 -0.371882840 1.222940507 -0.18378346 -0.140960692
## 1406 -0.310262311 -0.371882840 0.735713002 -0.18378346 -0.321161068
## 1407 -0.310262311 -0.371882840 -0.952182281 -0.18378346 2.090091575
## 1408 -0.310262311 0.005445631 -0.731769839 0.28742446 -0.672980848
## 1409 -0.310262311 -0.371882840 -0.180738732 -0.18378346 3.900676299
## 1410 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1411 -0.310262311 3.441120657 -0.395350848 -0.18378346 0.562678869
## 1412 -0.310262311 -0.371882840 -0.006728909 -0.18378346 -0.475618532
## 1413 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1414 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1415 2.955787533 -0.371882840 -0.517157724 -0.18378346 1.901310229
## 1416 -0.310262311 0.501930461 0.973526427 -0.18378346 2.175901277
## 1417 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1418 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1419 1.627593930 -0.371882840 0.347091064 -0.18378346 0.476869166
## 1420 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1421 -0.310262311 0.243758349 1.791372596 -0.18378346 -0.132379722
## 1422 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1423 -0.310262311 0.621086821 -0.053131529 0.56022904 -0.029408079
## 1424 1.039704958 -0.371882840 0.683510056 -0.18378346 -0.140960692
## 1425 -0.310262311 -0.371882840 1.599961790 -0.18378346 -0.672980848
## 1426 -0.310262311 -0.371882840 0.706711365 5.12350568 1.043213203
## 1427 -0.310262311 0.720383787 0.967726100 -0.18378346 0.270925880
## 1428 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

```

## 1429 -0.092525655 -0.371882840 -0.012529237 -0.05978138 0.253763939
## 1430 0.408268654 -0.332164054 0.921323480 -0.18378346 0.579840809
## 1431 -0.310262311 -0.371882840 0.666109073 -0.18378346 0.760041185
## 1432 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1433 -0.310262311 -0.371882840 -0.012529237 -0.18378346 0.717136333
## 1434 -0.310262311 -0.371882840 1.089532976 -0.18378346 1.008889322
## 1435 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1436 -0.310262311 -0.371882840 -0.598362308 -0.18378346 -0.672980848
## 1437 0.647778976 -0.371882840 0.126678622 0.46102737 0.391059464
## 1438 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1439 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1440 -0.310262311 -0.371882840 -0.256142989 -0.18378346 2.424749415
## 1441 -0.310262311 0.462211675 -0.708568529 -0.18378346 -0.672980848
## 1442 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1443 -0.310262311 0.501930461 -0.952182281 -0.18378346 -0.672980848
## 1444 -0.310262311 0.501930461 -0.952182281 -0.18378346 -0.672980848
## 1445 -0.027204658 -0.371882840 -0.267743644 -0.18378346 -0.672980848
## 1446 -0.310262311 -0.371882840 0.515300560 -0.18378346 -0.672980848
## 1447 -0.310262311 6.459748427 1.443352950 -0.18378346 1.094699025
## 1448 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1449 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1450 -0.310262311 -0.371882840 -0.360548883 -0.18378346 -0.672980848
## 1451 -0.310262311 -0.371882840 -0.528758379 -0.18378346 -0.672980848
## 1452 -0.310262311 -0.371882840 0.202082878 -0.18378346 2.201644188
## 1453 -0.310262311 -0.371882840 -0.122735458 -0.18378346 -0.672980848
## 1454 -0.310262311 -0.371882840 -0.511357396 -0.18378346 -0.672980848
## 1455 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1456 -0.310262311 -0.371882840 -0.192339387 -0.18378346 3.840609507
## 1457 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1458 -0.092525655 -0.371882840 -0.464954777 -0.05978138 -0.132379722
## 1459 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1460 -0.310262311 -0.371882840 -0.505557069 -0.18378346 1.317804252
## 1461 -0.310262311 -0.371882840 0.033873383 -0.18378346 0.056401624
## 1462 0.059890004 -0.213007695 -0.256142989 -0.18378346 2.047186723
## 1463 -0.310262311 -0.371882840 -0.099534148 -0.18378346 -0.672980848
## 1464 -0.310262311 -0.371882840 -0.145936768 0.23782362 0.073563564
## 1465 -0.310262311 -0.371882840 2.951438083 -0.18378346 0.974565441
## 1466 -0.310262311 -0.371882840 -0.122735458 -0.18378346 -0.672980848
## 1467 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1468 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1469 -0.310262311 -0.371882840 1.420151640 -0.18378346 -0.672980848
## 1470 -0.310262311 -0.371882840 1.460753932 -0.18378346 -0.672980848
## 1471 0.386494989 -0.371882840 0.370292374 -0.18378346 2.115834486
## 1472 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1473 1.213894283 -0.371882840 -0.140136440 -0.18378346 0.528354988
## 1474 1.954198914 -0.371882840 1.170737560 -0.18378346 1.120441936
## 1475 1.758235924 -0.371882840 0.428295648 -0.18378346 1.369290073
## 1476 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1477 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1478 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1479 15.236134950 -0.371882840 -0.952182281 5.71871567 1.369290073
## 1480 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1481 -0.310262311 1.832509807 0.590704817 -0.18378346 0.845850887
## 1482 -0.310262311 -0.371882840 0.695110710 -0.18378346 -0.192446514

```

```

## 1483 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1484 2.367898561 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1485 1.257441614 -0.252726481 1.681166375 0.41142654 0.262344910
## 1486 0.626005311 0.581368034 1.112734286 -0.18378346 0.022077743
## 1487 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1488 -0.310262311 -0.371882840 0.753113985 -0.18378346 0.588421780
## 1489 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.492780473
## 1490 -0.310262311 0.005445631 -0.151737095 -0.18378346 -0.252513306
## 1491 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1492 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1493 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.369290073
## 1494 -0.310262311 0.760102573 1.031529702 -0.18378346 0.305249761
## 1495 -0.310262311 -0.371882840 1.066331666 -0.18378346 1.317804252
## 1496 -0.310262311 -0.371882840 0.219483861 -0.18378346 -0.672980848
## 1497 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1498 -0.310262311 0.045164417 -0.586761653 -0.18378346 -0.406970770
## 1499 -0.310262311 -0.371882840 0.439896303 -0.18378346 -0.672980848
## 1500 -0.310262311 -0.371882840 -0.586761653 -0.18378346 -0.672980848
## 1501 -0.310262311 1.852369200 0.347091064 -0.18378346 0.288087821
## 1502 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1503 -0.310262311 3.262386119 2.237997808 -0.18378346 -0.672980848
## 1504 1.431630939 -0.371882840 -0.024129892 -0.18378346 1.386452014
## 1505 -0.310262311 -0.371882840 -0.401151175 -0.18378346 0.142211326
## 1506 3.238845187 0.164320777 0.306488772 3.16427277 1.420775895
## 1507 -0.310262311 -0.371882840 0.138279277 -0.18378346 3.771961745
## 1508 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1509 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.080893901
## 1510 -0.310262311 -0.371882840 -0.441753467 -0.18378346 -0.295418157
## 1511 -0.310262311 0.303336529 0.033873383 -0.18378346 -0.672980848
## 1512 1.170346952 0.978555898 0.625506781 -0.18378346 0.494031107
## 1513 -0.310262311 -0.371882840 0.207883206 -0.18378346 6.191795358
## 1514 1.126799620 -0.371882840 0.399294011 -0.18378346 -0.389808830
## 1515 -0.310262311 -0.371882840 -0.389550520 -0.18378346 -0.672980848
## 1516 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.672980848
## 1517 -0.310262311 -0.371882840 1.211339852 -0.18378346 -0.355484949
## 1518 -0.310262311 0.462211675 -0.708568529 -0.18378346 -0.672980848
## 1519 1.344536277 -0.371882840 0.811117259 -0.18378346 0.631326631
## 1520 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1521 0.364721323 -0.371882840 0.666109073 -0.18378346 0.657069542
## 1522 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1523 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1524 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1525 0.342947658 0.223898956 0.277487135 -0.18378346 1.927053140
## 1526 -0.310262311 -0.371882840 0.045474038 -0.18378346 -0.672980848
## 1527 0.103437336 2.527588569 0.062875020 0.75863237 -0.012246139
## 1528 -0.310262311 -0.371882840 -0.140136440 -0.18378346 -0.672980848
## 1529 -0.310262311 -0.371882840 -0.540359033 -0.18378346 -0.372646889
## 1530 -0.310262311 -0.371882840 0.016472400 -0.18378346 -0.201027484
## 1531 -0.310262311 -0.371882840 -0.459154449 -0.18378346 -0.672980848
## 1532 -0.310262311 -0.371882840 1.095333303 -0.18378346 -0.295418157
## 1533 -0.310262311 -0.371882840 -0.244542334 -0.18378346 -0.672980848
## 1534 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1535 -0.310262311 -0.371882840 1.808773578 -0.18378346 -0.672980848
## 1536 -0.310262311 -0.371882840 2.197395516 -0.18378346 -0.672980848

```

```

## 1537 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1538 -0.092525655 0.382774102 -0.911579989 0.31222487 -0.527104354
## 1539 -0.310262311 -0.371882840 1.744969976 -0.18378346 3.317170322
## 1540 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1541 0.800194636 -0.371882840 -0.656365582 -0.18378346 -0.672980848
## 1542 -0.310262311 1.415462549 1.286744109 -0.18378346 0.296668791
## 1543 -0.310262311 -0.371882840 2.458410251 -0.18378346 0.588421780
## 1544 0.277626661 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1545 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1546 -0.310262311 -0.371882840 -0.087933493 -0.18378346 1.884148289
## 1547 -0.310262311 0.263617743 -0.952182281 -0.18378346 -0.672980848
## 1548 -0.310262311 -0.371882840 0.219483861 -0.18378346 -0.098055841
## 1549 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1550 5.895232394 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1551 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1552 -0.310262311 3.222667332 -0.952182281 -0.18378346 2.055767694
## 1553 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1554 -0.310262311 -0.371882840 3.925893092 -0.18378346 0.923079620
## 1555 -0.310262311 0.621086821 0.787915949 -0.18378346 1.686785973
## 1556 0.495363317 -0.371882840 0.990927410 7.20674066 1.566652389
## 1557 0.734873639 -0.371882840 -0.116935131 -0.18378346 1.798338586
## 1558 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1559 -0.310262311 2.170119492 1.025729374 -0.18378346 0.785784096
## 1560 1.105025955 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1561 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1562 -0.310262311 6.618623572 0.410894666 -0.18378346 2.347520683
## 1563 -0.310262311 -0.371882840 1.019929047 -0.18378346 0.880174768
## 1564 0.669552642 -0.371882840 0.631307109 -0.18378346 0.494031107
## 1565 -0.310262311 -0.371882840 1.652164737 -0.18378346 -0.672980848
## 1566 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1567 0.342947658 -0.371882840 0.480498595 2.09785486 0.116468415
## 1568 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1569 -0.310262311 1.514759515 0.149879931 -0.18378346 0.545516928
## 1570 -0.310262311 -0.371882840 0.613906126 -0.18378346 1.643881121
## 1571 -0.310262311 0.283477136 -0.760771476 -0.18378346 -0.389808830
## 1572 -0.310262311 -0.371882840 -0.354748556 -0.18378346 0.210859088
## 1573 0.669552642 0.938837112 1.338947056 -0.05978138 0.691393423
## 1574 1.845330586 1.097712258 0.196282551 1.65144736 0.176535207
## 1575 -0.310262311 -0.371882840 0.596505144 -0.18378346 0.854431858
## 1576 -0.310262311 -0.371882840 -0.296745281 -0.18378346 1.274899400
## 1577 -0.310262311 -0.093851335 -0.870977697 -0.18378346 -0.552847265
## 1578 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1579 -0.310262311 -0.371882840 -0.853576715 -0.18378346 -0.672980848
## 1580 -0.310262311 -0.371882840 0.515300560 -0.18378346 3.668990102
## 1581 -0.310262311 -0.272585874 -0.772372131 -0.18378346 -0.544266295
## 1582 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1583 1.649367596 1.415462549 0.097676984 -0.18378346 1.661043062
## 1584 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1585 -0.310262311 -0.371882840 1.234541162 -0.18378346 0.940241560
## 1586 -0.310262311 0.839540146 0.115077967 -0.18378346 -0.672980848
## 1587 -0.310262311 -0.014413762 0.613906126 0.26262404 -0.055150990
## 1588 -0.310262311 -0.371882840 0.062875020 -0.18378346 -0.672980848
## 1589 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1590 7.092784004 -0.371882840 -0.459154449 2.61866361 -0.192446514

```

```

## 1591 -0.092525655 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1592 -0.310262311 -0.371882840 0.474698268 -0.18378346 -0.672980848
## 1593 -0.310262311 -0.371882840 -0.047331201 -0.18378346 -0.672980848
## 1594 -0.310262311 0.700524393 0.938724463 -0.18378346 0.253763939
## 1595 -0.310262311 -0.371882840 -0.186539060 -0.18378346 0.228021029
## 1596 -0.310262311 0.422492888 -0.319946591 -0.18378346 1.317804252
## 1597 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1598 -0.310262311 -0.371882840 0.294888117 -0.18378346 -0.063731960
## 1599 0.626005311 -0.312304661 0.764714640 -0.18378346 0.476869166
## 1600 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1601 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 1602 -0.310262311 -0.371882840 -0.667966237 -0.18378346 -0.467037562
## 1603 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1604 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1605 -0.310262311 -0.371882840 -0.540359033 -0.18378346 0.245182969
## 1606 -0.310262311 0.382774102 1.066331666 -0.18378346 0.322411702
## 1607 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1608 -0.310262311 -0.371882840 0.753113985 -0.18378346 1.214832608
## 1609 -0.310262311 -0.371882840 0.857519879 -0.18378346 -0.672980848
## 1610 -0.310262311 1.177149831 -0.952182281 -0.18378346 -0.003665168
## 1611 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1612 -0.310262311 -0.371882840 0.532701542 0.78343279 0.511193047
## 1613 -0.310262311 0.402633495 -0.273543971 -0.18378346 -0.003665168
## 1614 -0.310262311 -0.371882840 -0.279344299 -0.18378346 -0.012246139
## 1615 4.175112809 1.673634661 1.437552622 -0.18378346 -0.672980848
## 1616 -0.310262311 2.626885536 0.219483861 -0.18378346 0.622745661
## 1617 -0.310262311 -0.371882840 1.188138542 -0.18378346 -0.046570020
## 1618 -0.310262311 2.468010390 0.086076330 -0.18378346 0.245182969
## 1619 -0.310262311 -0.371882840 1.495555897 -0.18378346 0.528354988
## 1620 -0.310262311 -0.371882840 1.077932321 -0.18378346 0.991727382
## 1621 -0.157846652 -0.371882840 0.961925772 0.36182570 0.931660590
## 1622 -0.310262311 -0.371882840 -0.952182281 -0.18378346 1.412194924
## 1623 1.823556921 -0.371882840 0.468897940 -0.18378346 1.429356865
## 1624 -0.310262311 1.633915875 0.335490409 0.80823320 1.060375144
## 1625 -0.310262311 -0.371882840 1.652164737 -0.18378346 -0.672980848
## 1626 -0.310262311 -0.371882840 -0.256142989 -0.18378346 0.562678869
## 1627 -0.310262311 6.976092650 -0.952182281 -0.18378346 -0.672980848
## 1628 -0.310262311 -0.371882840 -0.076332839 -0.18378346 -0.672980848
## 1629 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1630 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1631 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1632 1.584046599 0.005445631 0.909722826 -0.18378346 1.412194924
## 1633 -0.310262311 -0.371882840 0.509500232 -0.18378346 0.768622155
## 1634 1.170346952 -0.371882840 -0.557760016 -0.18378346 -0.672980848
## 1635 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1636 -0.310262311 0.700524393 0.944524790 -0.18378346 0.262344910
## 1637 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1638 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1639 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1640 -0.310262311 -0.371882840 0.967726100 -0.18378346 0.270925880
## 1641 -0.310262311 1.872228593 0.364492047 -0.18378346 2.244549039
## 1642 -0.310262311 -0.371882840 0.155680259 -0.18378346 3.840609507
## 1643 -0.310262311 -0.371882840 0.381893029 -0.18378346 0.639907601
## 1644 -0.310262311 1.415462549 1.153336578 -0.18378346 -0.158122633

```



```

## 1645 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1646 -0.310262311 -0.371882840 -0.441753467 -0.18378346 0.082144534
## 1647 -0.310262311 -0.371882840 -0.447553795 -0.18378346 -0.672980848
## 1648 -0.310262311 -0.371882840 1.565159826 -0.18378346 -0.672980848
## 1649 -0.310262311 0.422492888 -0.720169184 -0.18378346 -0.329742038
## 1650 -0.310262311 -0.371882840 -0.018329564 -0.18378346 -0.672980848
## 1651 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1652 1.213894283 0.323195922 0.265886480 7.62834774 1.129022906
## 1653 -0.310262311 -0.371882840 1.391150003 -0.18378346 1.927053140
## 1654 1.061478623 -0.371882840 -0.215540697 -0.18378346 1.506585597
## 1655 0.255852995 4.116340027 0.439896303 1.13063862 0.236601999
## 1656 -0.092525655 -0.371882840 -0.720169184 -0.18378346 -0.501361443
## 1657 -0.310262311 -0.371882840 2.359804685 -0.18378346 0.545516928
## 1658 -0.310262311 -0.371882840 0.236884843 -0.18378346 -0.235351365
## 1659 0.364721323 0.045164417 0.515300560 0.85783404 0.777203125
## 1660 0.277626661 -0.371882840 -0.482355759 -0.18378346 -0.209608454
## 1661 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1662 -0.310262311 -0.371882840 -0.598362308 -0.18378346 -0.672980848
## 1663 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1664 7.092784004 -0.371882840 1.350547711 -0.18378346 0.785784096
## 1665 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1666 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1667 0.843741967 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1668 -0.310262311 0.263617743 1.280943781 -0.18378346 -0.123798752
## 1669 -0.310262311 -0.371882840 1.582560808 -0.18378346 -0.140960692
## 1670 -0.310262311 2.646744929 0.225284188 -0.18378346 0.631326631
## 1671 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1672 -0.310262311 2.706323108 0.393493684 -0.18378346 -0.672980848
## 1673 0.734873639 -0.371882840 0.167280914 -0.18378346 -0.672980848
## 1674 -0.310262311 -0.371882840 1.623163100 -0.18378346 -0.672980848
## 1675 -0.310262311 1.951666166 1.257742472 1.50264486 0.828688947
## 1676 -0.310262311 -0.371882840 0.874920861 -0.18378346 0.228021029
## 1677 -0.310262311 -0.371882840 1.460753932 -0.18378346 -0.672980848
## 1678 0.604231645 -0.371882840 0.834318569 -0.18378346 0.476869166
## 1679 -0.310262311 -0.371882840 0.318089427 -0.18378346 -0.672980848
## 1680 -0.310262311 0.025305024 -0.836175733 -0.18378346 -0.672980848
## 1681 -0.310262311 -0.371882840 0.352891392 -0.18378346 -0.672980848
## 1682 -0.310262311 1.316165583 1.773971613 -0.18378346 0.056401624
## 1683 -0.310262311 -0.371882840 0.097676984 -0.18378346 -0.672980848
## 1684 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1685 -0.310262311 -0.371882840 2.458410251 -0.18378346 -0.672980848
## 1686 -0.310262311 -0.371882840 1.153336578 -0.18378346 0.099306475
## 1687 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1688 -0.310262311 -0.371882840 0.335490409 -0.18378346 1.231994549
## 1689 -0.310262311 -0.371882840 -0.099534148 -0.18378346 1.437937835
## 1690 -0.136072986 1.475040729 -0.018329564 0.23782362 -0.312580098
## 1691 -0.310262311 -0.371882840 0.352891392 -0.18378346 -0.672980848
## 1692 -0.310262311 -0.371882840 0.735713002 -0.18378346 0.365316553
## 1693 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848
## 1694 0.125211001 -0.371882840 0.045474038 10.38119398 0.802946036
## 1695 -0.310262311 -0.371882840 -0.221341024 -0.18378346 -0.672980848
## 1696 -0.310262311 -0.371882840 0.521100887 -0.18378346 0.777203125
## 1697 -0.310262311 0.164320777 -0.325746918 -0.18378346 -0.441294651
## 1698 -0.310262311 -0.371882840 -0.952182281 -0.18378346 -0.672980848

```

## 1699	-0.310262311	-0.371882840	0.016472400	-0.18378346	-0.672980848
## 1700	-0.048978324	3.679433376	0.677709728	0.11382154	0.416802374
## 1701	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1702	-0.310262311	-0.371882840	-0.638964600	-0.18378346	-0.672980848
## 1703	-0.310262311	2.726182502	-0.412751830	-0.18378346	-0.406970770
## 1704	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1705	-0.310262311	-0.371882840	0.793716277	-0.18378346	-0.672980848
## 1706	-0.310262311	0.958696505	-0.563560343	-0.18378346	-0.098055841
## 1707	-0.310262311	-0.371882840	-0.870977697	-0.18378346	-0.655818908
## 1708	0.038116339	-0.371882840	-0.169138078	-0.18378346	-0.046570020
## 1709	-0.310262311	-0.371882840	-0.453354122	-0.18378346	0.064982594
## 1710	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1711	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1712	-0.310262311	-0.371882840	-0.725969511	-0.18378346	-0.672980848
## 1713	-0.310262311	-0.371882840	1.246141817	-0.18378346	-0.209608454
## 1714	-0.310262311	-0.371882840	1.623163100	-0.18378346	-0.672980848
## 1715	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1716	-0.310262311	-0.371882840	0.207883206	-0.18378346	6.191795358
## 1717	-0.310262311	1.216868617	1.037330029	-0.18378346	0.622745661
## 1718	-0.310262311	-0.371882840	0.532701542	0.78343279	0.511193047
## 1719	-0.310262311	-0.371882840	0.120878294	-0.18378346	-0.672980848
## 1720	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
## 1721	-0.136072986	-0.371882840	1.124334941	-0.18378346	0.090725505
## 1722	4.044470815	-0.371882840	1.367948693	-0.18378346	1.043213203
## 1723	-0.310262311	-0.371882840	-0.366349210	-0.18378346	-0.672980848
## 1724	-0.310262311	-0.371882840	-0.952182281	-0.18378346	-0.672980848
##	V22	V23	V24	V25	V26
## 1	-0.117934389	-0.295168191	-0.2306970769	0.376879707	-0.3108442609
## 2	-0.117934389	-0.295168191	-0.2306970769	-0.198086509	-0.3108442609
## 3	-0.117934389	-0.295168191	-0.2306970769	1.214862385	-0.3108442609
## 4	-0.117934389	-0.295168191	-0.2306970769	1.227095708	2.7558139427
## 5	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 6	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 7	-0.117934389	-0.295168191	-0.2306970769	0.168913203	0.1803002170
## 8	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 9	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 10	-0.117934389	-0.295168191	0.6908292775	-0.338769733	-0.3108442609
## 11	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 12	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 13	-0.117934389	-0.295168191	-0.2306970769	0.040463304	0.4917576908
## 14	-0.117934389	-0.295168191	-0.2306970769	0.493096283	0.5037368244
## 15	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 16	1.324676173	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 17	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 18	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 19	8.917363336	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 20	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 21	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 22	-0.117934389	-0.295168191	-0.2306970769	2.964227682	-0.3108442609
## 23	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 24	-0.117934389	-0.295168191	-0.2306970769	0.517562930	1.6058171163
## 25	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 26	-0.117934389	0.375432790	-0.2306970769	1.025245866	-0.2269903256
## 27	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609

## 28	-0.117934389	-0.295168191	-0.2306970769	0.291246441	0.3000915531
## 29	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 30	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 31	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	1.4740466466
## 32	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 33	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 34	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 35	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 36	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 37	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 38	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 39	-0.117934389	0.802178869	2.2804622390	-0.338769733	-0.3108442609
## 40	-0.117934389	0.741215143	-0.0463918060	-0.338769733	-0.3108442609
## 41	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 42	-0.117934389	-0.295168191	-0.2306970769	3.153844200	3.1032088173
## 43	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 44	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 45	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 46	-0.117934389	-0.295168191	-0.2306970769	0.921262614	1.3302970434
## 47	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 48	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 49	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 50	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 51	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 52	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 53	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 54	-0.117934389	-0.295168191	-0.2306970769	0.064929951	-0.3108442609
## 55	-0.117934389	-0.295168191	-0.2306970769	0.713296111	3.8099777001
## 56	-0.117934389	-0.295168191	0.7138674364	-0.338769733	-0.3108442609
## 57	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 58	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 59	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 60	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 61	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 62	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 63	-0.117934389	-0.295168191	-0.2306970769	2.107895019	-0.3108442609
## 64	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 65	-0.117934389	-0.295168191	-0.2306970769	4.976609440	4.8880997248
## 66	-0.117934389	-0.295168191	-0.2306970769	-0.130803229	0.5157159580
## 67	-0.117934389	-0.295168191	-0.2306970769	0.022113318	0.3959246220
## 68	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 69	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 70	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 71	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 72	-0.117934389	-0.295168191	-0.2306970769	0.468629635	0.7433194966
## 73	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 74	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 75	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 76	-0.117934389	2.265308283	-0.0924681238	-0.338769733	-0.3108442609
## 77	-0.117934389	-0.295168191	-0.2306970769	2.462661408	-0.3108442609
## 78	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 79	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 80	-0.117934389	1.990971518	-0.2306970769	-0.338769733	-0.3108442609
## 81	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609

## 82	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 83	-0.117934389	-0.295168191	2.7873017339	-0.338769733	-0.3108442609
## 84	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 85	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 86	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 87	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 88	-0.117934389	-0.295168191	-0.2306970769	3.068210934	1.5938379827
## 89	-0.117934389	-0.295168191	-0.0694299649	-0.338769733	-0.3108442609
## 90	-0.117934389	-0.295168191	-0.2306970769	0.034346642	0.4198828892
## 91	-0.117934389	-0.295168191	-0.2306970769	-0.063519948	-0.3108442609
## 92	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 93	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 94	-0.117934389	-0.295168191	-0.2306970769	0.548146240	-0.3108442609
## 95	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 96	-0.117934389	-0.295168191	0.5065240066	-0.338769733	-0.3108442609
## 97	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 98	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 99	-0.117934389	-0.295168191	0.4374095301	-0.338769733	-0.3108442609
## 100	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 101	-0.117934389	-0.295168191	0.2070279414	-0.338769733	-0.3108442609
## 102	-0.117934389	-0.295168191	2.4647675099	-0.338769733	-0.3108442609
## 103	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 104	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 105	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 106	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 107	-0.117934389	-0.295168191	-0.2306970769	0.927379276	-0.3108442609
## 108	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 109	-0.117934389	2.082417106	-0.2306970769	-0.338769733	-0.3108442609
## 110	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 111	12.268992385	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 112	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 113	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 114	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 115	6.151455870	0.344950927	0.2531042592	-0.338769733	-0.3108442609
## 116	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 117	13.548902506	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 118	-0.117934389	0.619287692	1.1746306136	-0.338769733	-0.3108442609
## 119	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 120	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 121	-0.117934389	-0.295168191	-0.2306970769	1.514578817	3.3188332222
## 122	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 123	-0.117934389	-0.295168191	-0.2306970769	0.639896168	-0.3108442609
## 124	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 125	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 126	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 127	-0.117934389	0.771697006	-0.2306970769	-0.338769733	-0.3108442609
## 128	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 129	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 130	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 131	-0.117934389	2.021453380	-0.2306970769	-0.338769733	-0.3108442609
## 132	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 133	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 134	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 135	-0.117934389	-0.295168191	-0.2306970769	0.046579966	0.8271734318

```

## 136 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 137 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 138 -0.117934389 -0.295168191 -0.2306970769 0.462512973 -0.3108442609
## 139 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 140 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 141 -0.117934389 4.612411717 -0.2306970769 -0.338769733 -0.3108442609
## 142 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 143 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 144 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 145 -0.117934389 0.863142595 0.0918371471 -0.338769733 -0.3108442609
## 146 -0.117934389 -0.295168191 -0.2306970769 0.444162988 1.2224848409
## 147 -0.117934389 -0.295168191 -0.2306970769 1.184279075 -0.3108442609
## 148 -0.117934389 -0.295168191 -0.2306970769 -0.283719776 -0.3108442609
## 149 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 150 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 151 -0.117934389 1.046033771 1.1515924548 -0.338769733 -0.3108442609
## 152 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 153 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 154 -0.117934389 -0.295168191 -0.2306970769 0.841746010 0.3120706867
## 155 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 156 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 157 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 158 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 159 -0.117934389 0.527842104 -0.2306970769 -0.338769733 -0.3108442609
## 160 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 161 -0.117934389 -0.295168191 -0.0463918060 -0.338769733 -0.3108442609
## 162 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 163 -0.117934389 3.819883285 1.5432411554 -0.338769733 -0.3108442609
## 164 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 165 -0.117934389 -0.295168191 -0.2306970769 0.872329319 0.2761332859
## 166 -0.117934389 -0.295168191 -0.2306970769 1.563512112 -0.3108442609
## 167 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 168 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 169 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 170 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 171 -0.117934389 0.223023476 -0.2306970769 1.722545321 1.8094623877
## 172 -0.117934389 2.021453380 0.6447529598 -0.338769733 -0.3108442609
## 173 -0.117934389 0.924106320 -0.2306970769 -0.338769733 -0.3108442609
## 174 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 175 -0.117934389 -0.295168191 1.3589358845 -0.338769733 -0.3108442609
## 176 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 177 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 178 -0.117934389 -0.295168191 -0.2306970769 0.725529434 1.7735249868
## 179 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 180 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 181 -0.117934389 -0.295168191 -0.2306970769 2.107895019 2.0849824606
## 182 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 183 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 184 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 185 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 186 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 187 -0.117934389 -0.295168191 -0.2306970769 0.340179736 0.3480080875
## 188 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 189 -0.117934389 1.076515634 0.8060200718 -0.338769733 -0.3108442609

```

```

## 190 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 191 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 192 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 193 -0.117934389 -0.295168191 -0.2306970769 0.523679592 1.5938379827
## 194 -0.117934389 -0.295168191 4.1004767890 -0.338769733 -0.3108442609
## 195 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 196 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 197 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 198 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.1443628162
## 199 -0.117934389 -0.295168191 -0.2306970769 -0.112453243 0.5756116261
## 200 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 201 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 202 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 203 -0.117934389 -0.295168191 -0.2306970769 0.303479765 0.9469647679
## 204 -0.117934389 6.410841622 -0.2306970769 -0.338769733 -0.3108442609
## 205 1.964631234 0.771697006 -0.2306970769 -0.338769733 -0.3108442609
## 206 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 207 -0.117934389 -0.295168191 -0.2306970769 2.505478041 2.4683147361
## 208 -0.117934389 2.204344557 -0.1155062826 -0.338769733 -0.3108442609
## 209 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 210 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 211 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 212 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 213 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 214 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 215 -0.117934389 -0.295168191 -0.2306970769 0.431929664 1.1985265737
## 216 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 217 -0.117934389 -0.295168191 -0.2306970769 4.028526849 3.9657064370
## 218 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 219 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 220 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 221 -0.117934389 1.320370536 0.9903253427 -0.338769733 -0.3108442609
## 222 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 223 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 224 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 225 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 226 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 227 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 228 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 229 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 230 -0.117934389 0.040132299 -0.2306970769 1.624678731 -0.1790737912
## 231 -0.117934389 -0.295168191 -0.2306970769 0.101629923 7.5474673857
## 232 -0.117934389 0.162059750 0.4604476889 -0.338769733 -0.3108442609
## 233 -0.117934389 3.057836715 0.5526003244 -0.338769733 -0.3108442609
## 234 -0.117934389 -0.295168191 -0.2306970769 -0.094103258 -0.1910529248
## 235 -0.117934389 -0.295168191 -0.2306970769 7.637357358 -0.3108442609
## 236 -0.117934389 -0.295168191 -0.2306970769 -0.179736524 -0.3108442609
## 237 -0.117934389 -0.295168191 -0.2306970769 2.120128343 2.0969615942
## 238 -0.117934389 -0.295168191 -0.2306970769 1.184279075 0.4318620228
## 239 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 240 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 241 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 242 -0.117934389 1.259406811 1.0133635016 -0.338769733 -0.3108442609
## 243 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 244 -0.117934389 -0.295168191 -0.2306970769 1.116995795 -0.3108442609
## 245 -0.117934389 2.966391127 -0.2306970769 -0.338769733 -0.3108442609
## 246 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 247 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 248 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 249 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 250 -0.117934389 -0.295168191 -0.2306970769 0.737762758 1.7974832541
## 251 -0.117934389 0.619287692 1.1746306136 -0.338769733 -0.3108442609
## 252 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 253 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 254 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 16.7953585308
## 255 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 256 -0.117934389 1.594707301 -0.2306970769 -0.338769733 -0.3108442609
## 257 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 258 -0.117934389 -0.295168191 0.0457608294 -0.338769733 -0.3108442609
## 259 -0.117934389 0.040132299 -0.2306970769 1.771478616 -0.3108442609
## 260 -0.117934389 3.179764166 0.2300661003 -0.338769733 -0.3108442609
## 261 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 262 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 263 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 264 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 265 -0.117934389 -0.295168191 -0.2306970769 1.557395450 4.3250804453
## 266 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 267 -0.117934389 -0.295168191 -0.0694299649 -0.338769733 -0.3108442609
## 268 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 269 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 270 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 271 -0.117934389 -0.295168191 -0.2306970769 2.652277926 1.3063387761
## 272 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 273 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 274 -0.117934389 -0.295168191 1.4280503611 -0.338769733 -0.3108442609
## 275 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 276 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 277 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 278 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 279 -0.117934389 1.381334262 0.4834858478 -0.338769733 -0.3108442609
## 280 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 281 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 282 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 283 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 284 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 285 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 286 -0.117934389 -0.295168191 1.7045082674 -0.338769733 -0.3108442609
## 287 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 288 -0.117934389 -0.295168191 0.8751345484 -0.338769733 -0.3108442609
## 289 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 -0.3108442609
## 290 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 291 -0.117934389 -0.295168191 -0.2306970769 2.878594416 2.8396678779
## 292 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 293 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 294 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 295 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 296 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 297 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 298 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 299 -0.117934389 -0.295168191 -0.2306970769 -0.326536409 -0.3108442609
## 300 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 301 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 302 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 303 -0.117934389 -0.295168191 -0.2306970769 0.590962873 0.8990482335
## 304 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 305 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 306 -0.117934389 -0.295168191 -0.2306970769 0.646012830 0.6474864277
## 307 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 308 -0.117934389 -0.295168191 7.4410098240 -0.338769733 -0.3108442609
## 309 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 310 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 311 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 312 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 313 -0.117934389 -0.295168191 -0.2306970769 1.581862097 0.1563419498
## 314 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 315 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 316 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5037368244
## 317 -0.117934389 1.198443085 2.3956530333 -0.338769733 -0.3108442609
## 318 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 319 -0.117934389 -0.295168191 -0.2306970769 1.269912342 -0.3108442609
## 320 -0.117934389 -0.295168191 -0.2306970769 0.737762758 0.7433194966
## 321 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.0353241879
## 322 -0.117934389 -0.295168191 -0.2306970769 0.254546470 0.8511316990
## 323 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 324 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 325 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 326 -0.117934389 4.033256324 -0.2306970769 -0.338769733 -0.3108442609
## 327 -0.117934389 -0.295168191 -0.2306970769 0.523679592 0.9589439015
## 328 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 329 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 330 -0.117934389 -0.295168191 -0.2306970769 0.297363103 -0.3108442609
## 331 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 332 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 333 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 334 -0.117934389 -0.295168191 -0.2306970769 0.786696053 1.3422761770
## 335 -0.117934389 -0.295168191 -0.2306970769 1.153695766 0.4198828892
## 336 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 337 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 338 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 339 -0.117934389 -0.295168191 -0.2306970769 0.303479765 0.9469647679
## 340 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 341 7.832693742 0.101096025 0.3682950535 -0.338769733 -0.3108442609
## 342 0.012225963 0.070614162 2.1422332858 -0.338769733 -0.3108442609
## 343 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 344 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 0.2521750187
## 345 -0.117934389 0.009650437 0.2300661003 -0.338769733 -0.3108442609
## 346 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 347 -0.117934389 -0.295168191 -0.2306970769 0.071046613 0.5516533589
## 348 -0.117934389 5.283012699 -0.2306970769 -0.338769733 -0.3108442609
## 349 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 350 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 351 -0.117934389 -0.295168191 -0.2306970769 -0.112453243 -0.0952198560

```



```

## 352 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 353 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 354 -0.117934389 -0.295168191 -0.2306970769 1.789828601 2.6599808738
## 355 -0.117934389 -0.295168191 -0.2306970769 2.315861523 2.2886277320
## 356 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 357 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 358 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 359 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 360 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 361 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 362 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 363 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 364 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 365 -0.117934389 -0.295168191 -0.2306970769 2.395378127 2.3605025336
## 366 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 367 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 368 -0.117934389 -0.295168191 -0.2306970769 4.554559771 -0.3108442609
## 369 -0.117934389 -0.295168191 -0.2306970769 0.003763333 0.5037368244
## 370 -0.117934389 -0.295168191 -0.2306970769 0.627662844 -0.3108442609
## 371 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 372 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 373 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 374 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 375 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 376 -0.117934389 -0.295168191 -0.2306970769 -0.259253128 -0.1551155240
## 377 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.8032151646
## 378 -0.117934389 -0.295168191 -0.2306970769 0.071046613 -0.3108442609
## 379 -0.117934389 -0.295168191 0.1839897826 -0.338769733 -0.3108442609
## 380 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 381 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 382 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 383 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 384 -0.117934389 2.448199459 -0.2306970769 -0.338769733 -0.3108442609
## 385 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 386 -0.117934389 1.228924948 -0.2306970769 0.590962873 2.1209198615
## 387 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 388 -0.117934389 4.642893580 -0.2306970769 -0.338769733 -0.3108442609
## 389 -0.117934389 -0.295168191 -0.2306970769 0.805046039 0.4318620228
## 390 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 391 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 392 1.216209213 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 393 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 394 -0.117934389 0.985070046 -0.2306970769 -0.338769733 -0.3108442609
## 395 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 396 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 397 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 398 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 399 -0.117934389 -0.295168191 -0.2306970769 1.288262327 -0.3108442609
## 400 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 401 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 402 -0.117934389 -0.081795152 -0.2306970769 -0.338769733 -0.3108442609
## 403 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 404 -0.117934389 -0.295168191 -0.2306970769 1.704195335 0.4438411564
## 405 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 406 -0.117934389 -0.051313289 0.1609516237 -0.338769733 -0.3108442609
## 407 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 408 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 409 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 410 -0.117934389 -0.295168191 1.4741266788 -0.338769733 0.5756116261
## 411 -0.117934389 -0.295168191 2.7181872574 -0.338769733 -0.3108442609
## 412 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 -0.3108442609
## 413 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 414 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 415 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 416 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 417 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 418 -0.117934389 -0.295168191 -0.2306970769 0.780579391 0.7792568974
## 419 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 420 -0.117934389 0.771697006 0.5756384832 -0.338769733 -0.3108442609
## 421 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 422 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 423 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 424 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 425 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 426 -0.117934389 2.600608773 0.1609516237 -0.338769733 -0.3108442609
## 427 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 428 -0.117934389 0.436396516 1.4741266788 -0.338769733 -0.3108442609
## 429 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 430 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 431 -0.117934389 -0.295168191 -0.2306970769 0.150563218 -0.3108442609
## 432 -0.117934389 -0.295168191 -0.2306970769 1.581862097 0.1563419498
## 433 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 434 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 435 -0.117934389 2.996872990 -0.2306970769 -0.338769733 -0.3108442609
## 436 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 437 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 438 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5157159580
## 439 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 440 -0.117934389 -0.295168191 -0.2306970769 1.269912342 2.0490450598
## 441 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 442 -0.117934389 -0.295168191 -0.2306970769 1.214862385 2.7318556754
## 443 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 444 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 445 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 446 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 447 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 448 -0.117934389 -0.295168191 -0.2306970769 -0.118569905 0.1204045490
## 449 -0.117934389 1.655671027 -0.2306970769 -0.338769733 -0.3108442609
## 450 -0.117934389 -0.295168191 -0.2306970769 2.205761609 -0.3108442609
## 451 -0.117934389 1.289888674 0.7138674364 -0.338769733 -0.3108442609
## 452 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 453 -0.117934389 -0.295168191 -0.2306970769 0.248429808 1.6058171163
## 454 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 455 -0.117934389 -0.295168191 0.7369055953 -0.338769733 -0.3108442609
## 456 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 457 -0.117934389 -0.295168191 -0.2306970769 0.921262614 -0.3108442609
## 458 -0.117934389 0.253505339 -0.2306970769 -0.338769733 -0.3108442609
## 459 -0.117934389 0.466878378 1.5202029965 -0.338769733 -0.3108442609

```

```

## 460 -0.117934389 7.934934761 -0.2306970769 0.486979621 1.3063387761
## 461 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 462 -0.117934389 -0.264686329 -0.2306970769 -0.338769733 -0.3108442609
## 463 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 464 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 465 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 466 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 467 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 468 -0.117934389 1.076515634 -0.2306970769 -0.338769733 -0.3108442609
## 469 -0.117934389 -0.295168191 -0.2306970769 3.331227395 4.4808091822
## 470 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 471 -0.117934389 4.520966129 -0.2306970769 -0.338769733 -0.3108442609
## 472 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 473 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 474 -0.117934389 4.094220050 -0.2306970769 -0.338769733 -0.3108442609
## 475 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 476 -0.117934389 -0.264686329 -0.2306970769 -0.338769733 -0.3108442609
## 477 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 478 -0.117934389 -0.295168191 -0.2306970769 0.964079248 -0.0592824551
## 479 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 480 -0.117934389 0.223023476 0.1609516237 -0.338769733 -0.3108442609
## 481 -0.117934389 1.167961222 1.1285542959 -0.338769733 -0.3108442609
## 482 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 483 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 484 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 485 -0.117934389 -0.295168191 -0.2306970769 0.927379276 -0.3108442609
## 486 -0.117934389 2.478681322 0.1379134649 -0.338769733 -0.3108442609
## 487 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 488 -0.117934389 0.040132299 2.3265385567 -0.338769733 -0.3108442609
## 489 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 490 -0.117934389 -0.295168191 -0.2306970769 -0.008469991 0.3360289539
## 491 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 492 -0.117934389 -0.295168191 -0.2306970769 0.621546182 1.3662344442
## 493 -0.117934389 -0.295168191 0.4834858478 -0.338769733 -0.3108442609
## 494 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 495 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 496 -0.117934389 -0.295168191 -0.2306970769 1.208745723 1.1985265737
## 497 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 498 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 0.0964462818
## 499 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 500 -0.117934389 -0.295168191 -0.2306970769 0.847862672 0.8511316990
## 501 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 502 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 503 -0.117934389 0.131577888 0.7369055953 -0.338769733 -0.3108442609
## 504 -0.117934389 0.893624457 -0.2306970769 -0.338769733 -0.3108442609
## 505 -0.117934389 -0.295168191 0.6908292775 -0.338769733 -0.3108442609
## 506 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 507 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 508 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 509 8.873976553 1.259406811 -0.2306970769 -0.338769733 -0.3108442609
## 510 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 511 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 512 -0.117934389 0.040132299 -0.2306970769 1.771478616 -0.3108442609
## 513 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.8214415213

```

```

## 514 -0.117934389 4.642893580 0.6908292775 -0.338769733 -0.3108442609
## 515 -0.117934389 -0.295168191 -0.2306970769 0.248429808 1.6058171163
## 516 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.3108442609
## 517 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 518 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 519 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2521750187
## 520 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 521 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 522 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 523 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 524 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.4917576908
## 525 -0.117934389 -0.295168191 0.7138674364 -0.338769733 -0.3108442609
## 526 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 527 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 528 -0.117934389 -0.295168191 -0.2306970769 1.257679018 1.1266517720
## 529 -0.117934389 -0.295168191 -0.2306970769 2.505478041 2.4683147361
## 530 -0.117934389 -0.295168191 -0.2306970769 0.627662844 1.5818588491
## 531 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 532 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 533 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 534 -0.117934389 -0.295168191 -0.2306970769 -0.032936639 0.3959246220
## 535 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 536 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 537 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 538 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 539 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 540 -0.117934389 -0.295168191 0.3913332123 -0.338769733 -0.3108442609
## 541 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 542 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.5756116261
## 543 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 544 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 545 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 546 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.3719663547
## 547 -0.117934389 -0.295168191 -0.2306970769 0.658246154 -0.3108442609
## 548 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 549 -0.117934389 0.863142595 0.0918371471 -0.338769733 -0.3108442609
## 550 -0.117934389 -0.295168191 -0.2306970769 0.860095996 4.3849761133
## 551 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 552 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 553 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 554 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 555 -0.117934389 0.771697006 0.5756384832 -0.338769733 -0.3108442609
## 556 -0.117934389 -0.295168191 -0.2306970769 0.150563218 -0.3108442609
## 557 -0.117934389 1.960489655 -0.2306970769 -0.338769733 -0.3108442609
## 558 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 559 -0.117934389 -0.295168191 -0.2306970769 -0.106336581 -0.3108442609
## 560 -0.117934389 -0.295168191 -0.2306970769 3.893960288 4.3490387125
## 561 4.296670862 0.162059750 -0.2306970769 -0.338769733 -0.3108442609
## 562 -0.117934389 -0.295168191 3.5936372941 0.676596139 -0.3108442609
## 563 0.001379267 -0.295168191 -0.2306970769 -0.271486452 -0.1790737912
## 564 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 565 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 0.0006132129
## 566 -0.117934389 4.124701913 -0.2306970769 -0.338769733 -0.3108442609
## 567 -0.117934389 -0.295168191 -0.2306970769 1.471762184 -0.3108442609

```

```

## 568 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 569 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 570 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 571 -0.117934389 -0.295168191 -0.2306970769 3.331227395 4.4808091822
## 572 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 573 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 574 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 575 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 576 -0.117934389 -0.295168191 -0.2306970769 1.300495651 -0.3108442609
## 577 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 578 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 579 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 580 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 581 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.0712615887
## 582 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 583 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 584 -0.117934389 -0.295168191 -0.2306970769 1.581862097 2.5162312705
## 585 -0.117934389 -0.295168191 -0.1155062826 -0.338769733 -0.3108442609
## 586 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 587 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 588 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 589 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 590 -0.117934389 2.082417106 -0.2306970769 -0.338769733 -0.3108442609
## 591 -0.117934389 -0.295168191 -0.2306970769 5.484292376 5.3912233363
## 592 -0.117934389 -0.295168191 -0.2306970769 0.101629923 -0.3108442609
## 593 -0.117934389 -0.295168191 -0.2306970769 -0.100219919 -0.3108442609
## 594 -0.117934389 -0.295168191 -0.2306970769 0.211729836 -0.3108442609
## 595 -0.117934389 -0.295168191 -0.2306970769 0.719412772 0.7193612294
## 596 -0.117934389 -0.295168191 0.3222187357 -0.338769733 -0.3108442609
## 597 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 598 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 599 -0.117934389 -0.295168191 -0.2306970769 0.083279937 0.5157159580
## 600 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 601 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 602 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 603 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 604 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 605 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 606 -0.117934389 -0.295168191 -0.2306970769 0.713296111 0.3719663547
## 607 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 608 -0.117934389 -0.295168191 0.9672871839 -0.338769733 -0.3108442609
## 609 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 610 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 611 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 612 -0.117934389 2.173862694 -0.1155062826 -0.338769733 -0.3108442609
## 613 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 614 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 615 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 616 -0.117934389 -0.295168191 -0.2306970769 1.557395450 -0.3108442609
## 617 -0.117934389 -0.295168191 -0.2306970769 0.523679592 -0.3108442609
## 618 0.619640936 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 619 -0.117934389 6.410841622 -0.2306970769 -0.338769733 -0.3108442609
## 620 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 621 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

## 622	-0.117934389	-0.295168191	-0.2306970769	0.688829463	-0.3108442609
## 623	-0.117934389	-0.295168191	-0.2306970769	2.034495076	2.7797722099
## 624	-0.117934389	1.198443085	2.3956530333	-0.338769733	-0.3108442609
## 625	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 626	-0.117934389	1.655671027	-0.2306970769	-0.338769733	-0.3108442609
## 627	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 628	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 629	-0.117934389	-0.295168191	-0.2306970769	0.052696628	0.4558202900
## 630	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	0.4198828892
## 631	-0.117934389	-0.295168191	-0.2306970769	2.107895019	-0.3108442609
## 632	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 633	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 634	-0.117934389	-0.295168191	-0.2306970769	-0.075753272	0.2042584842
## 635	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 636	-0.117934389	-0.295168191	2.7873017339	-0.338769733	-0.3108442609
## 637	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 638	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 639	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 640	-0.117934389	-0.295168191	3.4554083409	-0.338769733	-0.3108442609
## 641	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 642	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 643	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 644	-0.117934389	0.283987202	-0.2306970769	-0.338769733	-0.3108442609
## 645	-0.117934389	2.813981813	-0.2306970769	-0.338769733	-0.3108442609
## 646	-0.117934389	-0.295168191	-0.2306970769	3.245594128	2.9834174812
## 647	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 648	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 649	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 650	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 651	-0.117934389	-0.295168191	1.4050122022	-0.338769733	-0.3108442609
## 652	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 653	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 654	-0.117934389	3.606510245	-0.2306970769	-0.338769733	-0.3108442609
## 655	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 656	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 657	-0.117934389	-0.295168191	-0.2306970769	0.780579391	-0.3108442609
## 658	-0.117934389	0.741215143	-0.2306970769	-0.338769733	-0.3108442609
## 659	-0.117934389	-0.295168191	0.6217148009	-0.338769733	-0.3108442609
## 660	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 661	-0.117934389	1.259406811	1.0133635016	-0.338769733	-0.3108442609
## 662	-0.117934389	-0.295168191	-0.2306970769	1.269912342	-0.3108442609
## 663	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 664	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 665	-0.117934389	-0.295168191	-0.2306970769	0.071046613	1.7136293188
## 666	-0.117934389	-0.295168191	-0.2306970769	1.312728975	0.7672777638
## 667	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 668	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 669	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 670	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 671	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 672	-0.117934389	0.009650437	2.1652714447	-0.338769733	-0.3108442609
## 673	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 674	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 675	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609

## 676	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 677	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 678	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 679	-0.117934389	5.496385738	2.2343859213	-0.338769733	-0.3108442609
## 680	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 681	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 682	-0.117934389	-0.295168191	-0.2306970769	0.058813289	0.6355072941
## 683	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 684	-0.117934389	1.960489655	-0.2306970769	-0.338769733	-0.3108442609
## 685	-0.117934389	6.410841622	-0.2306970769	-0.338769733	-0.3108442609
## 686	-0.117934389	-0.295168191	-0.2306970769	0.621546182	1.5698797155
## 687	-0.117934389	-0.295168191	-0.2306970769	0.101629923	7.5474673857
## 688	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 689	-0.117934389	-0.295168191	-0.2306970769	3.875610302	3.8099777001
## 690	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 691	-0.117934389	-0.295168191	0.6447529598	-0.338769733	-0.3108442609
## 692	-0.117934389	-0.295168191	1.8427372206	-0.338769733	-0.3108442609
## 693	-0.117934389	-0.295168191	-0.2306970769	4.976609440	5.2953902675
## 694	-0.117934389	-0.295168191	2.7873017339	-0.338769733	-0.3108442609
## 695	-0.117934389	-0.295168191	-0.2306970769	0.272896455	0.2881124195
## 696	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 697	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 698	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 699	-0.117934389	-0.295168191	1.4510885200	-0.338769733	-0.3108442609
## 700	-0.117934389	-0.295168191	-0.2306970769	-0.179736524	-0.3108442609
## 701	-0.117934389	-0.295168191	-0.2306970769	0.749996082	1.8214415213
## 702	-0.117934389	-0.295168191	0.5295621655	-0.338769733	-0.3108442609
## 703	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	0.0485297473
## 704	-0.117934389	1.046033771	-0.2306970769	-0.338769733	-0.3108442609
## 705	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 706	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 707	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 708	-0.117934389	-0.295168191	-0.2306970769	-0.026819977	0.3000915531
## 709	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 710	-0.117934389	1.472779850	0.8290582307	-0.338769733	-0.3108442609
## 711	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 712	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 713	-0.117934389	4.764821031	0.5295621655	-0.338769733	-0.3108442609
## 714	-0.117934389	-0.295168191	1.1515924548	-0.338769733	-0.3108442609
## 715	-0.117934389	-0.295168191	-0.2306970769	2.817427797	-0.3108442609
## 716	-0.117934389	-0.295168191	-0.2306970769	4.756409613	4.6724753199
## 717	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 718	-0.117934389	0.893624457	0.2070279414	-0.338769733	-0.3108442609
## 719	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 720	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 721	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 722	-0.117934389	-0.295168191	-0.2306970769	0.101629923	-0.3108442609
## 723	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 724	-0.117934389	-0.295168191	-0.2306970769	0.138329894	0.6235281605
## 725	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 726	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 727	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 728	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 729	11.357869925	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609

## 730	-0.117934389	-0.295168191	-0.2306970769	0.052696628	0.4558202900
## 731	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 732	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 733	1.509070004	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 734	-0.117934389	-0.295168191	1.7736227440	-0.338769733	-0.3108442609
## 735	-0.042007517	1.472779850	0.4374095301	-0.338769733	-0.3108442609
## 736	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 737	-0.117934389	-0.295168191	9.9291309810	-0.338769733	-0.3108442609
## 738	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 739	-0.117934389	-0.295168191	-0.2306970769	0.713296111	0.7193612294
## 740	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 741	-0.117934389	-0.295168191	-0.2306970769	7.637357358	-0.3108442609
## 742	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 743	-0.117934389	-0.295168191	0.7829819130	-0.338769733	-0.3108442609
## 744	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 745	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 746	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 747	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 748	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 749	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 750	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 751	-0.117934389	2.844463676	0.9442490250	-0.338769733	-0.3108442609
## 752	-0.117934389	-0.295168191	1.2667832491	-0.338769733	-0.3108442609
## 753	-0.117934389	-0.295168191	-0.2306970769	1.178162413	0.8750899663
## 754	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 755	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 756	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 757	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 758	-0.117934389	-0.295168191	-0.2306970769	2.156828314	2.1328989951
## 759	-0.117934389	-0.295168191	-0.2306970769	0.425813002	1.1865474401
## 760	-0.117934389	-0.295168191	-0.2306970769	0.694946125	-0.0233450543
## 761	-0.117934389	9.367582312	-0.2306970769	-0.338769733	-0.3108442609
## 762	-0.117934389	-0.295168191	0.5065240066	-0.338769733	-0.3108442609
## 763	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 764	-0.117934389	-0.295168191	1.6123556320	-0.338769733	-0.3108442609
## 765	-0.117934389	-0.295168191	-0.2306970769	0.444162988	1.2224848409
## 766	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 767	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 768	-0.117934389	-0.295168191	-0.2306970769	2.945877696	0.9709230351
## 769	-0.117934389	-0.295168191	0.9442490250	-0.338769733	-0.3108442609
## 770	-0.117934389	-0.295168191	1.1055161370	-0.338769733	-0.3108442609
## 771	-0.117934389	-0.295168191	-0.2306970769	0.933495938	-0.3108442609
## 772	-0.117934389	-0.295168191	-0.2306970769	0.548146240	-0.3108442609
## 773	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 774	-0.117934389	-0.295168191	-0.2306970769	-0.020703315	0.3120706867
## 775	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 776	-0.117934389	-0.051313289	0.5526003244	-0.338769733	-0.3108442609
## 777	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 778	-0.117934389	-0.295168191	-0.2306970769	-0.222553157	-0.3108442609
## 779	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 780	-0.117934389	-0.295168191	-0.2306970769	-0.130803229	0.5157159580
## 781	-0.117934389	-0.295168191	-0.2306970769	0.052696628	0.4558202900
## 782	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 783	-0.117934389	-0.295168191	-0.2306970769	1.477878845	2.0610241934



```

## 784 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 785 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 786 -0.117934389 5.953613680 -0.2306970769 -0.026819977 0.3000915531
## 787 0.348473537 1.015551908 -0.2306970769 -0.338769733 -0.3108442609
## 788 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 789 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.3108442609
## 790 0.272546666 0.802178869 -0.2306970769 -0.338769733 -0.3108442609
## 791 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 792 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.9110273671
## 793 -0.117934389 0.985070046 -0.2306970769 -0.338769733 -0.3108442609
## 794 -0.117934389 -0.295168191 -0.2306970769 1.178162413 1.6058171163
## 795 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.4438411564
## 796 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 797 -0.117934389 -0.295168191 -0.2306970769 0.009879994 0.5157159580
## 798 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 0.1084254154
## 799 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 800 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 801 -0.117934389 -0.295168191 -0.2306970769 0.866212658 1.7495667196
## 802 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 803 8.873976553 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 804 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 805 -0.117934389 1.411816125 -0.2306970769 -0.338769733 -0.3108442609
## 806 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 807 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 808 -0.117934389 -0.295168191 0.1379134649 -0.338769733 -0.3108442609
## 809 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 810 -0.117934389 -0.295168191 -0.2306970769 1.863228544 2.1568572623
## 811 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 812 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 813 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 814 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 815 -0.117934389 -0.295168191 -0.2306970769 4.976609440 4.8880997248
## 816 -0.117934389 -0.295168191 -0.2306970769 4.976609440 4.8880997248
## 817 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 818 -0.117934389 -0.295168191 -0.2306970769 1.673612026 2.3125859992
## 819 -0.117934389 -0.295168191 -0.2306970769 1.532928802 4.5766422510
## 820 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 821 -0.117934389 -0.295168191 -0.2306970769 1.722545321 1.3662344442
## 822 -0.117934389 -0.295168191 0.7599437541 -0.338769733 -0.3108442609
## 823 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 824 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 825 -0.117934389 2.051935243 -0.2306970769 -0.338769733 -0.3108442609
## 826 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 827 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 828 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 829 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 830 -0.117934389 -0.295168191 -0.2306970769 0.168913203 0.1803002170
## 831 -0.117934389 -0.295168191 -0.2306970769 0.652129492 0.9829021687
## 832 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 833 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 834 -0.117934389 -0.295168191 -0.2306970769 0.327946412 0.3360289539
## 835 -0.117934389 0.802178869 2.2804622390 -0.338769733 -0.3108442609
## 836 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 837 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 838 -0.117934389 0.375432790 -0.2306970769 1.025245866 -0.2269903256
## 839 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 840 -0.117934389 -0.295168191 1.3819740434 -0.338769733 -0.3108442609
## 841 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 842 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 843 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 844 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 845 -0.117934389 -0.295168191 -0.2306970769 0.499212945 -0.2030320584
## 846 -0.117934389 -0.295168191 -0.2306970769 0.713296111 1.1625891728
## 847 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609
## 848 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 849 -0.117934389 -0.295168191 -0.2306970769 3.055977610 3.0073757484
## 850 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 851 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 852 -0.117934389 0.314469064 -0.2306970769 1.343312284 -0.3108442609
## 853 -0.117934389 -0.295168191 -0.2306970769 0.860095996 2.0370659262
## 854 -0.117934389 -0.295168191 -0.2306970769 0.193379851 -0.3108442609
## 855 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 856 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 857 -0.117934389 -0.295168191 -0.2306970769 1.367778932 -0.3108442609
## 858 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 859 -0.117934389 -0.295168191 0.2070279414 -0.338769733 -0.3108442609
## 860 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 861 -0.117934389 1.503261713 0.2070279414 -0.338769733 -0.3108442609
## 862 -0.117934389 1.350852399 -0.2306970769 -0.338769733 -0.3108442609
## 863 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 864 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 865 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 866 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 867 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.1146726384
## 868 -0.117934389 -0.295168191 -0.2306970769 0.034346642 0.4198828892
## 869 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 870 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 871 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 872 -0.117934389 -0.295168191 -0.2306970769 -0.198086509 -0.3108442609
## 873 -0.117934389 -0.295168191 -0.2306970769 0.468629635 0.7433194966
## 874 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 875 -0.117934389 -0.051313289 0.1379134649 -0.338769733 -0.3108442609
## 876 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 877 -0.117934389 -0.295168191 -0.2306970769 -0.289836438 -0.2150111920
## 878 9.448851438 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 879 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.3108442609
## 880 -0.117934389 1.594707301 1.4280503611 -0.338769733 -0.3108442609
## 881 -0.117934389 -0.295168191 -0.2306970769 3.380160690 3.8459151010
## 882 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 883 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 884 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 885 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 886 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 887 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 888 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 889 0.109846226 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 890 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 891 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 892 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 893 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 894 -0.117934389 3.911328873 -0.2306970769 -0.338769733 -0.3108442609
## 895 -0.117934389 1.167961222 0.0457608294 -0.338769733 -0.3108442609
## 896 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 897 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 898 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 899 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 900 -0.117934389 -0.295168191 -0.2306970769 0.725529434 1.7735249868
## 901 -0.117934389 1.503261713 -0.0233536472 -0.283719776 -0.2030320584
## 902 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.5636324925
## 903 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 904 -0.117934389 1.381334262 -0.2306970769 -0.338769733 -0.3108442609
## 905 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 906 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 907 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 908 -0.117934389 0.527842104 1.0133635016 -0.338769733 -0.3108442609
## 909 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 910 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 911 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 912 -0.117934389 2.905427401 -0.2306970769 -0.338769733 -0.3108442609
## 913 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 914 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 915 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 916 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 917 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 918 -0.117934389 0.863142595 0.8290582307 -0.338769733 -0.3108442609
## 919 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 920 -0.117934389 -0.295168191 -0.2306970769 4.603493066 6.7328863004
## 921 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 922 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 923 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 924 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 925 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 926 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 927 -0.117934389 -0.295168191 0.6677911187 -0.338769733 -0.3108442609
## 928 -0.117934389 -0.295168191 -0.2306970769 0.921262614 -0.3108442609
## 929 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.9110273671
## 930 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 931 -0.117934389 1.503261713 0.2070279414 -0.338769733 -0.3108442609
## 932 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 933 -0.117934389 1.167961222 0.3222187357 -0.338769733 -0.3108442609
## 934 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 935 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 936 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 937 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 938 -0.117934389 0.070614162 0.0457608294 1.881578529 -0.3108442609
## 939 -0.117934389 -0.142758877 -0.2306970769 0.370763045 -0.3108442609
## 940 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 941 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 942 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 943 -0.117934389 -0.295168191 -0.2306970769 1.331078960 3.5104993599
## 944 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 945 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609

```

## 946	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 947	-0.117934389	0.893624457	-0.2306970769	-0.338769733	-0.3108442609
## 948	9.687478749	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 949	-0.117934389	-0.295168191	-0.2306970769	2.805194473	4.4808091822
## 950	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 951	-0.117934389	1.198443085	-0.2306970769	-0.338769733	-0.3108442609
## 952	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 953	-0.117934389	-0.295168191	-0.2306970769	-0.149153214	-0.3108442609
## 954	-0.117934389	4.551447992	-0.2306970769	-0.338769733	-0.3108442609
## 955	-0.117934389	-0.295168191	-0.0233536472	-0.338769733	-0.3108442609
## 956	-0.117934389	-0.295168191	-0.2306970769	0.101629923	0.5516533589
## 957	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 958	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 959	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 960	-0.117934389	-0.142758877	1.6123556320	-0.338769733	-0.3108442609
## 961	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 962	-0.117934389	-0.295168191	-0.2306970769	5.545458995	-0.3108442609
## 963	-0.117934389	-0.295168191	-0.2306970769	1.808178587	2.4922730033
## 964	-0.117934389	2.051935243	-0.2306970769	-0.338769733	-0.3108442609
## 965	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 966	-0.117934389	-0.112277015	1.3589358845	-0.338769733	-0.3108442609
## 967	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 968	-0.117934389	-0.295168191	0.1379134649	-0.338769733	-0.3108442609
## 969	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 970	-0.117934389	1.167961222	-0.2306970769	-0.338769733	-0.3108442609
## 971	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 972	-0.117934389	0.649769555	-0.2306970769	-0.338769733	-0.3108442609
## 973	-0.117934389	-0.295168191	-0.2306970769	0.370763045	-0.3108442609
## 974	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 975	-0.117934389	-0.295168191	-0.2306970769	-0.149153214	-0.3108442609
## 976	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 977	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 978	2.322572200	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 979	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 980	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 981	-0.117934389	-0.295168191	0.3682950535	-0.338769733	-0.3108442609
## 982	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 983	-0.117934389	-0.295168191	-0.2306970769	0.052696628	0.5157159580
## 984	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 985	-0.117934389	-0.295168191	0.8520963896	-0.338769733	-0.3108442609
## 986	-0.117934389	-0.295168191	-0.2306970769	-0.112453243	0.5756116261
## 987	-0.117934389	0.893624457	-0.2306970769	-0.338769733	-0.3108442609
## 988	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 989	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 990	-0.117934389	-0.295168191	-0.2306970769	0.902912629	-0.3108442609
## 991	-0.117934389	-0.295168191	-0.2306970769	0.101629923	0.5516533589
## 992	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 993	-0.117934389	0.223023476	0.5526003244	-0.338769733	-0.3108442609
## 994	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 995	6.834797714	2.935909264	-0.2306970769	-0.338769733	-0.3108442609
## 996	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 997	-0.117934389	0.832660732	-0.2306970769	-0.338769733	-0.3108442609
## 998	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609
## 999	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609

```

## 1000 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1001 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1002 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1003 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1004 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 -0.3108442609
## 1005 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1006 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1007 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1008 -0.117934389 -0.295168191 -0.2306970769 2.315861523 2.2886277320
## 1009 -0.117934389 -0.295168191 -0.2306970769 0.517562930 1.6058171163
## 1010 -0.117934389 0.649769555 -0.2306970769 -0.338769733 -0.3108442609
## 1011 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1012 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1013 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1014 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1015 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1016 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1017 -0.117934389 -0.295168191 0.5295621655 -0.338769733 -0.3108442609
## 1018 -0.117934389 -0.295168191 -0.2306970769 1.214862385 1.9771702582
## 1019 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1020 7.832693742 0.101096025 0.3682950535 -0.338769733 -0.3108442609
## 1021 -0.117934389 0.649769555 3.1559122757 -0.338769733 -0.3108442609
## 1022 -0.117934389 0.405914653 0.2991805769 -0.338769733 -0.3108442609
## 1023 -0.117934389 -0.295168191 -0.2306970769 7.307057616 -0.3108442609
## 1024 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1025 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1026 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1027 -0.117934389 -0.295168191 -0.2306970769 1.600212083 -0.3108442609
## 1028 -0.117934389 -0.295168191 1.5662793143 -0.338769733 -0.3108442609
## 1029 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1030 -0.117934389 -0.295168191 -0.2306970769 2.536061351 2.5042521369
## 1031 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1032 -0.117934389 -0.295168191 1.2667832491 -0.338769733 -0.3108442609
## 1033 -0.117934389 -0.295168191 -0.2306970769 0.572612887 1.4740466466
## 1034 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1035 -0.117934389 -0.295168191 -0.1155062826 -0.338769733 -0.3108442609
## 1036 -0.117934389 -0.295168191 -0.2306970769 2.652277926 1.3063387761
## 1037 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1038 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1039 -0.117934389 -0.295168191 1.2898214079 -0.338769733 -0.3108442609
## 1040 -0.117934389 -0.295168191 15.1127167249 -0.338769733 -0.3108442609
## 1041 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1042 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1043 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1044 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1045 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.4198828892
## 1046 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1047 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.1443628162
## 1048 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1049 -0.117934389 -0.295168191 -0.2306970769 2.107895019 -0.3108442609
## 1050 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1051 -0.117934389 2.966391127 -0.2306970769 -0.338769733 -0.3108442609
## 1052 -0.117934389 -0.295168191 -0.2306970769 3.055977610 3.0073757484
## 1053 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1054 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1055 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1056 -0.117934389 10.739266137 -0.2306970769 -0.338769733 -0.3108442609
## 1057 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1058 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1059 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1060 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1061 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 1062 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1063 -0.117934389 -0.295168191 -0.2306970769 -0.259253128 0.8151942982
## 1064 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1065 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.3719663547
## 1066 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1067 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1068 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1069 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 1070 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 1071 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1072 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1073 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1074 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 1075 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.8334206549
## 1076 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1077 -0.117934389 -0.203722603 -0.2306970769 0.382996369 1.1506100392
## 1078 -0.117934389 -0.295168191 -0.2306970769 3.875610302 3.8099777001
## 1079 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1080 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1081 -0.117934389 -0.295168191 -0.2306970769 2.138478328 4.5407048502
## 1082 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1083 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1084 0.478633889 1.381334262 -0.2306970769 -0.338769733 -0.3108442609
## 1085 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1086 -0.117934389 0.223023476 0.9442490250 -0.338769733 -0.3108442609
## 1087 -0.117934389 -0.295168191 -0.2306970769 0.933495938 -0.3108442609
## 1088 -0.117934389 1.106997497 0.8290582307 -0.338769733 -0.3108442609
## 1089 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1090 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 1.4740466466
## 1091 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1092 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1093 -0.117934389 -0.295168191 -0.2306970769 0.052696628 0.5157159580
## 1094 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1095 1.693463835 1.594707301 0.2300661003 -0.338769733 -0.3108442609
## 1096 -0.117934389 3.789401422 1.5432411554 -0.338769733 -0.3108442609
## 1097 -0.117934389 0.314469064 -0.2306970769 0.554262902 1.4381092458
## 1098 -0.117934389 -0.295168191 -0.2306970769 -0.271486452 -0.1790737912
## 1099 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1100 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1101 -0.117934389 -0.295168191 1.4280503611 -0.338769733 -0.3108442609
## 1102 -0.117934389 -0.295168191 -0.2306970769 0.756112744 -0.0832407223
## 1103 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1104 8.917363336 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1105 -0.117934389 0.588805829 -0.1385444415 -0.338769733 -0.3108442609
## 1106 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1107 -0.117934389 -0.295168191 -0.2306970769 11.894554025 -0.3108442609

```

```

## 1108 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1109 -0.117934389 -0.295168191 -0.2306970769 9.851588958 -0.3108442609
## 1110 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1111 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1112 -0.117934389 -0.295168191 -0.2306970769 0.401346355 1.8693580557
## 1113 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1114 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1115 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1116 -0.117934389 -0.295168191 -0.2306970769 0.407463017 3.5943532952
## 1117 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1118 -0.117934389 -0.295168191 0.1609516237 -0.338769733 -0.3108442609
## 1119 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1120 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1121 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1122 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1123 -0.117934389 -0.295168191 -0.2306970769 0.230079822 0.4318620228
## 1124 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 1125 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1126 -0.117934389 -0.295168191 -0.2306970769 -0.130803229 -0.3108442609
## 1127 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.3108442609
## 1128 -0.117934389 -0.295168191 -0.2306970769 1.061945838 1.0547769704
## 1129 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 1130 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1131 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1132 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1133 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1134 -0.117934389 -0.295168191 -0.2306970769 2.358678156 4.9719536601
## 1135 -0.117934389 -0.295168191 -0.2306970769 0.126096570 0.5995698933
## 1136 -0.117934389 -0.295168191 -0.2306970769 -0.081869934 0.1922793506
## 1137 -0.117934389 3.819883285 1.5432411554 -0.338769733 -0.3108442609
## 1138 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1139 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1140 8.873976553 1.259406811 -0.2306970769 -0.338769733 -0.3108442609
## 1141 -0.117934389 -0.295168191 0.8520963896 -0.338769733 -0.3108442609
## 1142 -0.117934389 1.137479360 -0.2306970769 -0.338769733 -0.3108442609
## 1143 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1144 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1145 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1146 -0.117934389 2.051935243 0.3452568946 -0.338769733 -0.3108442609
## 1147 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1148 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1149 -0.117934389 -0.295168191 -0.2306970769 1.025245866 0.5756116261
## 1150 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1151 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1152 -0.117934389 -0.295168191 -0.2306970769 2.156828314 2.1328989951
## 1153 -0.117934389 -0.295168191 0.2991805769 -0.338769733 -0.3108442609
## 1154 -0.117934389 -0.295168191 -0.2306970769 0.731646096 0.0365506137
## 1155 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1156 -0.117934389 -0.295168191 5.4136518442 -0.338769733 -0.3108442609
## 1157 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1158 -0.117934389 -0.295168191 -0.2306970769 -0.155269876 -0.1311572568
## 1159 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1160 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1161 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609

```

```

## 1162 -0.117934389 -0.295168191 -0.2306970769 0.841746010 0.0125923465
## 1163 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 1164 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1165 -0.117934389 -0.295168191 4.1004767890 -0.338769733 -0.3108442609
## 1166 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1167 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1168 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1169 -0.117934389 -0.295168191 -0.2306970769 3.367927366 3.3188332222
## 1170 -0.117934389 -0.295168191 -0.2306970769 0.780579391 -0.3108442609
## 1171 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 2.2167529303
## 1172 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1173 -0.117934389 -0.295168191 -0.2306970769 1.422828889 0.8391525654
## 1174 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1175 -0.117934389 -0.295168191 -0.2306970769 0.352413060 0.1922793506
## 1176 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1177 -0.117934389 -0.295168191 -0.2306970769 2.927527711 1.5099840475
## 1178 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1179 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1180 -0.117934389 -0.295168191 0.8290582307 -0.338769733 -0.3108442609
## 1181 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1182 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1183 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1184 -0.117934389 1.503261713 0.0227226705 -0.338769733 -0.3108442609
## 1185 -0.117934389 -0.295168191 -0.2306970769 1.019129204 7.6672587218
## 1186 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1187 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1188 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1189 -0.117934389 -0.295168191 -0.2306970769 0.493096283 1.3183179097
## 1190 -0.117934389 -0.295168191 -0.2306970769 0.823396024 -0.1551155240
## 1191 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1192 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1193 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1194 -0.117934389 0.101096025 -0.2306970769 0.694946125 -0.3108442609
## 1195 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 1196 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1197 -0.117934389 -0.295168191 -0.2306970769 2.707327883 -0.3108442609
## 1198 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1199 -0.117934389 1.228924948 -0.2306970769 0.590962873 2.1209198615
## 1200 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1201 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1202 -0.117934389 -0.295168191 -0.2306970769 1.422828889 0.8391525654
## 1203 -0.117934389 1.777598478 1.3358977257 -0.338769733 -0.3108442609
## 1204 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1205 -0.117934389 -0.051313289 0.3682950535 -0.338769733 -0.3108442609
## 1206 -0.117934389 0.405914653 -0.1155062826 -0.338769733 -0.3108442609
## 1207 -0.117934389 -0.295168191 -0.2306970769 1.490112169 1.9292537237
## 1208 -0.117934389 -0.295168191 -0.2306970769 1.288262327 -0.3108442609
## 1209 -0.117934389 -0.295168191 -0.2306970769 0.211729836 0.7672777638
## 1210 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1211 3.645869106 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1212 -0.117934389 2.143380832 -0.2306970769 -0.338769733 -0.3108442609
## 1213 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1214 9.438004742 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1215 -0.117934389 -0.295168191 -0.2306970769 2.401494789 3.9058107690

```



```

## 1216 -0.117934389 -0.295168191 -0.2306970769 1.061945838 -0.3108442609
## 1217 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1218 -0.117934389 -0.295168191 -0.2306970769 0.052696628 -0.3108442609
## 1219 -0.117934389 1.655671027 -0.2306970769 -0.338769733 -0.3108442609
## 1220 -0.117934389 -0.295168191 1.7045082674 0.438046326 0.1922793506
## 1221 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1222 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1223 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1224 -0.117934389 -0.295168191 -0.2306970769 -0.014586653 0.3240498203
## 1225 -0.117934389 -0.295168191 -0.2306970769 1.227095708 1.2224848409
## 1226 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 2.4683147361
## 1227 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1228 -0.117934389 -0.295168191 -0.2306970769 0.572612887 1.4740466466
## 1229 -0.117934389 -0.295168191 -0.2306970769 1.019129204 2.3485234000
## 1230 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1231 -0.117934389 -0.295168191 -0.2306970769 1.245445694 2.7917513435
## 1232 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1233 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1234 -0.117934389 -0.295168191 -0.2306970769 1.373895593 0.9469647679
## 1235 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1236 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1237 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1238 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 1239 -0.117934389 -0.295168191 -0.2306970769 0.474746297 0.2162376178
## 1240 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1241 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1242 -0.117934389 1.167961222 0.0457608294 -0.338769733 -0.3108442609
## 1243 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1244 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1245 -0.117934389 -0.295168191 2.3956530333 -0.338769733 -0.3108442609
## 1246 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 1247 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1248 -0.117934389 -0.295168191 -0.2306970769 0.462512973 -0.3108442609
## 1249 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1250 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1251 -0.117934389 -0.295168191 -0.2306970769 0.646012830 -0.3108442609
## 1252 -0.117934389 -0.295168191 -0.2306970769 0.468629635 0.7433194966
## 1253 -0.117934389 -0.295168191 -0.2306970769 0.450279650 0.4558202900
## 1254 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 0.3000915531
## 1255 -0.117934389 1.167961222 1.1285542959 -0.338769733 -0.3108442609
## 1256 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1257 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1258 -0.117934389 -0.295168191 -0.2306970769 0.560379564 0.5636324925
## 1259 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1260 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1261 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1262 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1263 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1264 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1265 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1266 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1267 -0.117934389 1.533743576 -0.0003154883 -0.338769733 -0.3108442609
## 1268 -0.117934389 -0.295168191 5.4136518442 -0.338769733 -0.3108442609
## 1269 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1270 -0.117934389 -0.295168191 -0.2306970769 0.921262614 1.3302970434
## 1271 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1272 4.068890248 0.131577888 -0.2306970769 -0.338769733 -0.3108442609
## 1273 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1274 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1275 -0.117934389 0.040132299 -0.2306970769 1.624678731 -0.1790737912
## 1276 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1277 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1278 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 1279 -0.117934389 -0.295168191 -0.2306970769 7.637357358 -0.3108442609
## 1280 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1281 -0.117934389 1.990971518 -0.1155062826 -0.338769733 -0.3108442609
## 1282 -0.117934389 -0.295168191 -0.2306970769 2.052845062 2.3605025336
## 1283 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1284 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1285 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1286 -0.117934389 -0.295168191 1.4050122022 -0.338769733 -0.3108442609
## 1287 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1288 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1289 -0.117934389 -0.295168191 0.4834858478 -0.338769733 -0.3108442609
## 1290 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1291 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1292 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1293 -0.117934389 -0.295168191 -0.2306970769 0.052696628 0.4558202900
## 1294 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1295 -0.117934389 -0.295168191 -0.2306970769 0.866212658 1.7495667196
## 1296 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1297 -0.117934389 -0.295168191 -0.2306970769 1.942745148 -0.3108442609
## 1298 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1299 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.5157159580
## 1300 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1301 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1302 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1303 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1304 -0.117934389 -0.295168191 -0.2306970769 0.272896455 -0.3108442609
## 1305 0.554560760 1.594707301 -0.2306970769 -0.338769733 -0.3108442609
## 1306 -0.117934389 -0.295168191 8.0860782721 -0.338769733 -0.3108442609
## 1307 -0.117934389 -0.295168191 -0.2306970769 1.086412485 -0.3108442609
## 1308 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.0592824551
## 1309 -0.117934389 1.046033771 -0.2306970769 -0.338769733 -0.3108442609
## 1310 -0.117934389 -0.295168191 -0.2306970769 0.523679592 -0.3108442609
## 1311 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1312 -0.117934389 -0.295168191 -0.2306970769 1.979445120 2.7198765418
## 1313 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1314 -0.117934389 -0.295168191 -0.2306970769 1.820411911 -0.3108442609
## 1315 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1316 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1317 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1318 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.8334206549
## 1319 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1320 -0.117934389 -0.295168191 -0.2306970769 0.499212945 -0.2030320584
## 1321 -0.117934389 -0.295168191 -0.2306970769 -0.222553157 -0.3108442609
## 1322 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1323 -0.117934389 -0.295168191 -0.2306970769 1.679728687 -0.3108442609

```

```

## 1324 -0.117934389 -0.295168191 -0.2306970769 1.526812140 -0.3108442609
## 1325 -0.117934389 -0.295168191 -0.2306970769 0.994662557 2.3006068656
## 1326 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1327 -0.117934389 11.928058786 0.6908292775 -0.338769733 -0.3108442609
## 1328 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1329 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1330 -0.117934389 -0.295168191 -0.2306970769 2.077311710 0.5396742252
## 1331 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1332 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1333 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1334 -0.117934389 -0.295168191 -0.2306970769 0.486979621 0.8990482335
## 1335 1.216209213 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1336 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1337 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1338 -0.117934389 -0.295168191 -0.2306970769 2.156828314 2.1328989951
## 1339 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 1340 -0.117934389 -0.295168191 -0.2306970769 2.315861523 -0.3108442609
## 1341 0.793188071 0.985070046 -0.0463918060 -0.338769733 -0.3108442609
## 1342 -0.117934389 -0.295168191 -0.2306970769 0.780579391 1.5698797155
## 1343 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1344 -0.117934389 -0.295168191 -0.2306970769 -0.179736524 -0.3108442609
## 1345 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1346 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1347 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1348 -0.117934389 -0.295168191 -0.2306970769 0.193379851 0.7313403630
## 1349 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1350 -0.117934389 2.265308283 -0.0924681238 -0.338769733 -0.3108442609
## 1351 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1352 -0.117934389 -0.295168191 -0.2306970769 0.389113031 1.1146726384
## 1353 -0.117934389 0.771697006 2.9946451637 -0.338769733 -0.3108442609
## 1354 -0.117934389 -0.295168191 1.1515924548 -0.338769733 -0.3108442609
## 1355 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 -0.1071989896
## 1356 -0.117934389 -0.295168191 -0.2306970769 0.749996082 1.8214415213
## 1357 -0.117934389 -0.295168191 -0.2306970769 -0.057403286 -0.1311572568
## 1358 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1359 9.448851438 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1360 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1361 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1362 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1363 -0.117934389 -0.295168191 0.7829819130 -0.338769733 -0.3108442609
## 1364 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1365 -0.117934389 -0.295168191 -0.2306970769 0.297363103 -0.3108442609
## 1366 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1367 -0.117934389 -0.295168191 2.7412254162 -0.338769733 -0.3108442609
## 1368 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1369 -0.117934389 -0.295168191 2.6721109396 -0.338769733 -0.3108442609
## 1370 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1371 -0.117934389 -0.295168191 -0.2306970769 1.514578817 -0.3108442609
## 1372 -0.117934389 -0.295168191 -0.2306970769 -0.100219919 -0.3108442609
## 1373 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1374 -0.117934389 -0.295168191 -0.2306970769 2.792961149 -0.3108442609
## 1375 -0.117934389 -0.295168191 -0.2306970769 0.144446556 0.7073820958
## 1376 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1377 -0.117934389 0.802178869 -0.0233536472 1.789828601 -0.3108442609

```

```

## 1378 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1379 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 0.8631108327
## 1380 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1381 -0.117934389 2.692054362 0.5065240066 -0.338769733 -0.3108442609
## 1382 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1383 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1384 -0.117934389 -0.295168191 -0.2306970769 0.976312571 3.5464367608
## 1385 -0.117934389 1.899525929 1.9809661738 -0.338769733 -0.3108442609
## 1386 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1387 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.6235281605
## 1388 -0.117934389 -0.295168191 -0.2306970769 -0.210319833 -0.0592824551
## 1389 -0.117934389 -0.295168191 -0.2306970769 0.756112744 1.4740466466
## 1390 -0.117934389 -0.295168191 1.2437450902 -0.338769733 -0.3108442609
## 1391 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 0.6235281605
## 1392 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1393 -0.117934389 -0.295168191 -0.2306970769 1.802061925 3.8818525018
## 1394 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.8271734318
## 1395 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1396 -0.117934389 -0.295168191 -0.0694299649 -0.338769733 -0.3108442609
## 1397 -0.117934389 8.392162703 -0.2306970769 -0.338769733 -0.3108442609
## 1398 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1399 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1400 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1401 -0.117934389 -0.295168191 -0.2306970769 -0.051286624 0.2881124195
## 1402 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1403 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1404 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1405 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1406 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1407 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1408 -0.117934389 -0.295168191 -0.2306970769 -0.106336581 -0.3108442609
## 1409 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1410 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1411 -0.117934389 1.167961222 -0.2306970769 -0.338769733 -0.3108442609
## 1412 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1413 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1414 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1415 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1416 -0.117934389 1.046033771 0.7829819130 -0.338769733 -0.3108442609
## 1417 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1418 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1419 -0.117934389 1.046033771 0.7829819130 -0.338769733 -0.3108442609
## 1420 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1421 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1422 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1423 -0.117934389 0.162059750 0.2300661003 -0.308186423 -0.2509485929
## 1424 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1425 -0.117934389 -0.295168191 2.6490727808 -0.338769733 -0.3108442609
## 1426 4.068890248 0.131577888 -0.2306970769 -0.338769733 -0.3108442609
## 1427 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1428 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1429 -0.117934389 0.344950927 -0.1155062826 0.915145953 0.2641541523
## 1430 -0.117934389 2.844463676 0.9442490250 -0.338769733 -0.3108442609
## 1431 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1432 -0.117934389 -0.295168191 -0.2306970769 0.340179736 0.3480080875
## 1433 -0.117934389 -0.295168191 -0.2306970769 0.156679880 -0.3108442609
## 1434 -0.117934389 -0.295168191 0.6677911187 -0.338769733 -0.3108442609
## 1435 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1436 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1437 -0.117934389 -0.051313289 0.5756384832 -0.338769733 -0.3108442609
## 1438 -0.117934389 -0.295168191 -0.2306970769 2.315861523 -0.3108442609
## 1439 -0.117934389 -0.295168191 -0.2306970769 2.927527711 1.5099840475
## 1440 -0.117934389 -0.295168191 8.0860782721 -0.338769733 -0.3108442609
## 1441 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1442 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1443 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 1444 -0.117934389 -0.295168191 -0.2306970769 -0.069636610 0.2162376178
## 1445 -0.117934389 -0.295168191 -0.2306970769 -0.020703315 0.0006132129
## 1446 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1447 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1448 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1449 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1450 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1451 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1452 -0.117934389 0.802178869 -0.0233536472 -0.338769733 -0.3108442609
## 1453 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1454 -0.117934389 -0.295168191 -0.2306970769 0.126096570 -0.3108442609
## 1455 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1456 -0.117934389 -0.295168191 2.7873017339 -0.338769733 -0.3108442609
## 1457 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1458 -0.117934389 -0.295168191 -0.1155062826 0.560379564 0.1204045490
## 1459 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1460 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1461 -0.117934389 -0.295168191 0.7369055953 -0.338769733 -0.3108442609
## 1462 -0.117934389 0.741215143 -0.0463918060 -0.338769733 -0.3108442609
## 1463 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1464 -0.117934389 -0.295168191 0.1609516237 -0.338769733 -0.3108442609
## 1465 -0.117934389 1.167961222 -0.2306970769 -0.338769733 -0.3108442609
## 1466 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1467 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1468 -0.117934389 -0.295168191 -0.2306970769 -0.039053301 -0.3108442609
## 1469 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1470 -0.117934389 -0.295168191 -0.2306970769 2.205761609 -0.3108442609
## 1471 -0.117934389 -0.295168191 0.5065240066 -0.338769733 -0.3108442609
## 1472 1.628383659 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1473 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1474 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1475 -0.117934389 1.137479360 -0.2306970769 -0.338769733 -0.3108442609
## 1476 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1477 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1478 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1479 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1480 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1481 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1482 -0.117934389 1.411816125 -0.2306970769 -0.338769733 -0.3108442609
## 1483 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1484 -0.117934389 -0.295168191 -0.2306970769 1.165929090 -0.3108442609
## 1485 -0.117934389 2.265308283 -0.0924681238 -0.338769733 -0.3108442609

```

```

## 1486 -0.117934389 3.179764166 1.0824779782 -0.338769733 -0.3108442609
## 1487 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1488 -0.117934389 -0.295168191 9.9291309810 -0.338769733 -0.3108442609
## 1489 -0.117934389 -0.295168191 -0.2306970769 0.964079248 -0.0592824551
## 1490 -0.117934389 0.893624457 -0.2306970769 -0.338769733 -0.3108442609
## 1491 -0.117934389 -0.295168191 -0.2306970769 0.768346067 0.2282167514
## 1492 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1493 -0.117934389 -0.295168191 -0.2306970769 1.116995795 -0.3108442609
## 1494 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1495 -0.117934389 -0.295168191 5.1141557790 -0.338769733 -0.3108442609
## 1496 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1497 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1498 -0.117934389 0.344950927 -0.2306970769 -0.338769733 -0.3108442609
## 1499 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1500 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1501 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1502 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1503 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1504 -0.117934389 2.143380832 -0.2306970769 -0.338769733 -0.3108442609
## 1505 -0.117934389 -0.295168191 -0.2306970769 0.438046326 0.4438411564
## 1506 -0.117934389 -0.295168191 0.3913332123 -0.338769733 -0.3108442609
## 1507 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1508 -0.117934389 -0.295168191 -0.2306970769 0.909029291 0.9110273671
## 1509 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1510 9.958646147 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1511 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1512 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1513 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1514 -0.117934389 4.764821031 0.5295621655 -0.338769733 -0.3108442609
## 1515 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1516 -0.117934389 -0.295168191 -0.2306970769 2.273044890 3.7740402993
## 1517 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1518 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1519 -0.117934389 0.863142595 -0.2306970769 -0.338769733 -0.3108442609
## 1520 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1521 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1522 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1523 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1524 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1525 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 1526 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1527 -0.117934389 1.472779850 1.3358977257 -0.338769733 -0.3108442609
## 1528 -0.117934389 -0.295168191 -0.2306970769 2.242461580 1.9292537237
## 1529 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1530 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1531 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1532 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1533 -0.117934389 0.924106320 -0.2306970769 -0.338769733 -0.3108442609
## 1534 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1535 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1536 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1537 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1538 -0.117934389 -0.295168191 -0.2306970769 -0.326536409 -0.3108442609
## 1539 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1540 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1541 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1542 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1543 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1544 -0.117934389 -0.020831426 -0.2306970769 1.618562069 -0.3108442609
## 1545 -0.117934389 -0.295168191 -0.2306970769 1.037479190 1.4860257803
## 1546 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1547 -0.117934389 -0.295168191 -0.2306970769 -0.143036553 0.0724880145
## 1548 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1549 -0.117934389 -0.295168191 -0.2306970769 12.402236961 4.6724753199
## 1550 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1551 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1552 -0.117934389 -0.295168191 -0.2306970769 -0.063519948 -0.3108442609
## 1553 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1554 -0.117934389 -0.295168191 1.9118516972 -0.338769733 -0.3108442609
## 1555 -0.117934389 3.515064657 0.3452568946 -0.338769733 -0.3108442609
## 1556 -0.117934389 -0.295168191 0.6217148009 -0.338769733 -0.3108442609
## 1557 -0.117934389 2.631090636 -0.2306970769 -0.338769733 -0.3108442609
## 1558 -0.117934389 -0.295168191 -0.2306970769 8.395823431 -0.3108442609
## 1559 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1560 -0.117934389 -0.295168191 -0.2306970769 0.058813289 3.5943532952
## 1561 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1562 -0.117934389 -0.295168191 -0.2306970769 1.814295249 2.5042521369
## 1563 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1564 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1565 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1566 -0.117934389 -0.295168191 -0.2306970769 0.401346355 1.1386309056
## 1567 -0.117934389 3.454100931 -0.2306970769 -0.338769733 -0.3108442609
## 1568 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1569 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1570 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1571 -0.117934389 -0.295168191 -0.2306970769 0.266779793 0.0844671482
## 1572 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1573 -0.117934389 0.893624457 0.5526003244 -0.338769733 -0.3108442609
## 1574 -0.117934389 -0.295168191 0.8981727073 -0.338769733 -0.3108442609
## 1575 -0.117934389 -0.295168191 -0.2306970769 0.749996082 0.7552986302
## 1576 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1577 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1578 -0.117934389 -0.295168191 -0.2306970769 1.514578817 3.3188332222
## 1579 -0.117934389 -0.295168191 -0.2306970769 0.621546182 1.3662344442
## 1580 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1581 -0.117934389 -0.295168191 -0.2306970769 0.138329894 0.6834238285
## 1582 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1583 -0.117934389 -0.295168191 1.8427372206 -0.338769733 -0.3108442609
## 1584 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1585 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1586 -0.117934389 -0.295168191 -0.2306970769 1.159812428 1.8933163229
## 1587 -0.117934389 -0.295168191 1.0133635016 -0.338769733 -0.3108442609
## 1588 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1589 -0.117934389 -0.295168191 -0.2306970769 0.315713088 -0.3108442609
## 1590 -0.117934389 -0.295168191 0.4143713712 -0.338769733 -0.3108442609
## 1591 -0.117934389 1.960489655 -0.2306970769 -0.338769733 -0.3108442609
## 1592 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1593 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

```

## 1594 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1595 -0.117934389 -0.295168191 0.9672871839 -0.338769733 -0.3108442609
## 1596 11.140936006 0.101096025 -0.2306970769 -0.338769733 -0.3108442609
## 1597 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1598 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1599 -0.117934389 1.228924948 1.0133635016 -0.338769733 -0.3108442609
## 1600 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1601 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 1602 -0.117934389 -0.295168191 -0.2306970769 0.040463304 0.5756116261
## 1603 -0.117934389 -0.295168191 -0.2306970769 1.019129204 -0.3108442609
## 1604 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1605 -0.117934389 -0.295168191 -0.2306970769 -0.124686567 0.1084254154
## 1606 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1607 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1608 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1609 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1610 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1611 -0.117934389 -0.295168191 -0.2306970769 9.851588958 -0.3108442609
## 1612 -0.117934389 -0.295168191 2.9485688460 -0.338769733 -0.3108442609
## 1613 -0.117934389 0.893624457 0.6677911187 -0.338769733 -0.3108442609
## 1614 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1615 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1616 -0.117934389 1.990971518 -0.2306970769 -0.338769733 -0.3108442609
## 1617 -0.117934389 -0.295168191 0.5986766421 -0.338769733 -0.3108442609
## 1618 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1619 -0.117934389 -0.295168191 -0.2306970769 0.517562930 -0.3108442609
## 1620 -0.117934389 -0.295168191 0.6447529598 -0.338769733 -0.3108442609
## 1621 -0.117934389 -0.295168191 0.2761424180 -0.338769733 -0.3108442609
## 1622 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1623 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 1624 -0.117934389 -0.295168191 0.4604476889 -0.338769733 -0.3108442609
## 1625 -0.117934389 3.118800441 -0.2306970769 -0.338769733 -0.3108442609
## 1626 -0.117934389 1.167961222 0.3222187357 -0.338769733 -0.3108442609
## 1627 -0.117934389 -0.295168191 -0.2306970769 1.924395163 -0.3108442609
## 1628 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1629 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1630 -0.117934389 -0.295168191 -0.2306970769 0.382996369 0.3959246220
## 1631 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1632 -0.117934389 -0.295168191 -0.0233536472 -0.338769733 -0.3108442609
## 1633 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1634 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1635 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1636 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1637 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1638 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1639 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1640 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1641 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1642 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1643 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1644 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1645 -0.117934389 -0.295168191 -0.2306970769 1.300495651 -0.3108442609
## 1646 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1647 9.828485796 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```



```

## 1648 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1649 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1650 -0.117934389 -0.295168191 -0.2306970769 0.646012830 0.6474864277
## 1651 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1652 -0.117934389 0.771697006 2.9946451637 -0.338769733 -0.3108442609
## 1653 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1654 -0.117934389 1.625189164 -0.2306970769 -0.338769733 -0.3108442609
## 1655 -0.117934389 2.143380832 1.9118516972 -0.338769733 -0.3108442609
## 1656 -0.117934389 -0.295168191 -0.2306970769 -0.026819977 0.4198828892
## 1657 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1658 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1659 0.218313186 -0.295168191 -0.0003154883 -0.338769733 -0.3108442609
## 1660 -0.117934389 -0.295168191 -0.2306970769 -0.173619862 -0.3108442609
## 1661 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1662 -0.117934389 -0.295168191 -0.2306970769 3.037627625 1.1506100392
## 1663 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1664 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1665 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1666 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1667 -0.117934389 -0.295168191 -0.2306970769 1.618562069 -0.3108442609
## 1668 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1669 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1670 -0.117934389 2.021453380 -0.2306970769 -0.338769733 -0.3108442609
## 1671 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1672 -0.117934389 -0.295168191 -0.2306970769 1.557395450 4.3250804453
## 1673 -0.117934389 -0.295168191 -0.2306970769 0.248429808 0.8391525654
## 1674 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1675 -0.117934389 -0.020831426 0.4374095301 -0.338769733 -0.3108442609
## 1676 -0.117934389 6.106022994 -0.2306970769 -0.338769733 -0.3108442609
## 1677 -0.117934389 -0.295168191 -0.2306970769 1.355545608 3.0073757484
## 1678 -0.117934389 1.228924948 0.9212108661 -0.338769733 -0.3108442609
## 1679 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1680 -0.117934389 -0.295168191 -0.2306970769 -0.216436495 -0.0712615887
## 1681 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1682 5.901981863 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1683 -0.117934389 -0.295168191 -0.2306970769 1.881578529 1.8573789221
## 1684 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1685 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1686 -0.117934389 -0.295168191 0.8060200718 -0.338769733 -0.3108442609
## 1687 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1688 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1689 -0.117934389 1.198443085 -0.2306970769 -0.338769733 -0.3108442609
## 1690 -0.117934389 2.295790145 -0.0463918060 -0.338769733 -0.3108442609
## 1691 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1692 -0.117934389 -0.295168191 0.3222187357 -0.338769733 -0.3108442609
## 1693 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1694 -0.117934389 0.924106320 0.2300661003 -0.338769733 -0.3108442609
## 1695 -0.117934389 -0.295168191 -0.2306970769 0.046579966 0.8271734318
## 1696 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1697 -0.117934389 0.527842104 1.0133635016 -0.338769733 -0.3108442609
## 1698 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609
## 1699 -0.117934389 -0.295168191 -0.2306970769 2.052845062 2.3605025336
## 1700 -0.117934389 -0.295168191 0.0457608294 -0.338769733 -0.3108442609
## 1701 -0.117934389 -0.295168191 -0.2306970769 -0.338769733 -0.3108442609

```

## 1702	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1703	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1704	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1705	1.509070004	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1706	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1707	-0.117934389	-0.295168191	-0.1385444415	-0.338769733	-0.3108442609	
## 1708	-0.117934389	-0.295168191	-0.2306970769	0.694946125	1.2464431081	
## 1709	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1710	-0.117934389	-0.295168191	-0.2306970769	4.756409613	9.6677740343	
## 1711	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1712	-0.117934389	-0.295168191	-0.2306970769	1.098645809	0.1563419498	
## 1713	-0.117934389	-0.295168191	-0.2306970769	-0.173619862	-0.3108442609	
## 1714	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1715	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1716	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1717	-0.117934389	2.448199459	0.4604476889	-0.338769733	-0.3108442609	
## 1718	-0.117934389	-0.295168191	2.9485688460	-0.338769733	-0.3108442609	
## 1719	-0.117934389	5.343976424	-0.2306970769	-0.338769733	-0.3108442609	
## 1720	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1721	-0.117934389	-0.051313289	0.1609516237	-0.338769733	-0.3108442609	
## 1722	-0.117934389	-0.295168191	-0.2306970769	-0.338769733	-0.3108442609	
## 1723	-0.117934389	-0.295168191	-0.2306970769	0.279013117	0.2881124195	
## 1724	-0.117934389	-0.295168191	-0.2306970769	2.010028429	4.2891430444	
##	V27	V28	V29	V30	V31	V32
## 1	0.1495767453	4.25879975	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 2	0.0054137013	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 3	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 4	0.5851998565	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 5	0.0586913480	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 6	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 7	-0.2170988231	0.54533777	0.62136144	-0.232505731	-0.15193759	-0.1435323
## 8	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 9	2.0205623380	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 10	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 11	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 12	-0.2170988231	1.31100003	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 13	-0.2014289270	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 14	0.1025670570	0.41134687	0.48714397	0.501042393	0.67081507	0.9931928
## 15	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 16	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 17	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 18	0.8265162562	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 19	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 20	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 21	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 22	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 23	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 24	-0.1544192388	0.14336508	0.21870903	0.198993166	0.33203456	0.5251295
## 25	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 26	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 27	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 28	-0.2170988231	-0.23946605	-0.16476947	0.867816455	-0.15193759	-0.1435323
## 29	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 30	0.7324968797	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323

```

## 31 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 32 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 33 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 34 -0.2170988231 2.26807786 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 35 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 36 -0.2170988231 -0.23946605 0.58301360 -0.232505731 -0.15193759 -0.1435323
## 37 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 38 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 39 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 40 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 41 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 42 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 43 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 44 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 45 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 46 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 47 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 48 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 49 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 50 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 51 -0.1074095505 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 52 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 53 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 54 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 55 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 56 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 57 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 58 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 59 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 60 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 61 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 62 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 63 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 64 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 65 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 66 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 67 -0.2170988231 2.01923763 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 68 -0.1638211764 -0.23946605 0.16118725 -0.232505731 -0.15193759 -0.1435323
## 69 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 70 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 71 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 72 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 73 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 74 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 75 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 76 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 77 -0.1293474050 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 78 -0.0698017999 -0.23946605 0.73640499 -0.232505731 -0.15193759 -0.1435323
## 79 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 80 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 81 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 82 0.2091223504 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 83 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 84 -0.2170988231 -0.23946605 -0.16476947 0.091118442 -0.15193759 -0.1435323

```

## 85	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 86	7.6178492201	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 87	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 88	0.1558447037	0.50705465	0.58301360	2.334912703	0.79180811	1.1603583
## 89	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 90	-0.2170988231	-0.23946605	-0.16476947	5.053355751	-0.15193759	-0.1435323
## 91	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 92	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 93	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 94	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 95	-0.2170988231	-0.23946605	6.92958267	-0.232505731	-0.15193759	-0.1435323
## 96	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 97	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 98	1.0866365313	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 99	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 100	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 101	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 102	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 103	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 104	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 105	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 106	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 107	-0.2170988231	-0.23946605	-0.16476947	-0.016756283	-0.15193759	-0.1435323
## 108	-0.2170988231	0.29649753	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 109	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 110	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 111	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 112	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 113	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 114	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 115	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 116	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 117	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 118	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 119	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 120	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 121	-0.2170988231	5.56042560	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 122	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 123	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15	

```

## 139 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 140 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 141 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 142 -0.0071222156 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 143 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 144 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 145 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 146 -0.0165241532 0.37306376 0.44879612 0.457892504 0.62241785 0.9263266
## 147 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 148 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 149 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 150 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 151 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 152 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 153 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 154 -0.2170988231 0.08594041 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 155 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 156 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 157 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 158 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 159 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 160 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 161 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 162 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 163 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 164 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 165 -0.2170988231 0.69847022 0.77475284 1.903413807 -0.15193759 -0.1435323
## 166 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 167 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 168 0.1464427661 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 169 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 170 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 171 -0.2170988231 -0.23946605 -0.16476947 0.134268331 -0.15193759 -0.1435323
## 172 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 173 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 174 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 175 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 176 -0.0133901740 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 177 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 178 -0.2170988231 3.09116480 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 179 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 180 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 181 -0.2170988231 3.58884527 -0.16476947 4.082483234 4.68778393 -0.1435323
## 182 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 183 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 184 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 185 -0.2170988231 0.04765730 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 186 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 187 0.3031417269 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 188 0.3501514152 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 189 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 190 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 191 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 192 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 193 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 194 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 195 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 196 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 197 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 198 -0.1387493427 0.23907286 1.06236171 0.306867890 -0.15193759 -0.1435323
## 199 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 200 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 201 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 202 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 203 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 204 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 205 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 206 0.2216582673 -0.23946605 -0.16476947 -0.232505731 -0.15193759 2.1967841
## 207 0.5099843553 4.20137508 4.28358106 4.772881468 5.46213937 7.6129449
## 208 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 209 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 210 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 211 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 212 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 213 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 214 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 215 0.1777825583 4.60334777 2.25114505 2.485937317 -0.15193759 -0.1435323
## 216 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 217 -0.2170988231 6.59406966 -0.16476947 7.469749571 8.48696531 -0.1435323
## 218 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 219 -0.2170988231 -0.23946605 -0.16476947 0.716791841 -0.15193759 -0.1435323
## 220 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 221 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 222 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 223 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 224 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 225 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 226 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 227 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 228 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 229 -0.2170988231 -0.23946605 0.44879612 -0.232505731 -0.15193759 -0.1435323
## 230 -0.2170988231 -0.23946605 0.46797005 -0.232505731 -0.15193759 -0.1435323
## 231 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 232 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 233 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 234 -0.2170988231 -0.04805049 0.21870903 0.198993166 -0.15193759 0.1907986
## 235 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 236 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 237 0.0962990986 0.71761178 0.79392677 0.846241510 1.05799279 1.5281223
## 238 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 239 -0.2170988231 0.37306376 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 240 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 241 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 242 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 243 0.9017317574 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 244 -0.2170988231 8.87191490 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 245 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 246 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 247 0.2874718309 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 248 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 249 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 250 0.0586913480 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 251 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 252 -0.0039882363 0.41134687 -0.16476947 0.501042393 -0.15193759 -0.1435323
## 253 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 254 4.2582234992 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 255 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 256 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 257 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 258 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 259 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 260 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 261 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 262 0.6290755655 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 263 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 264 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 265 0.7544347342 1.23443381 -0.16476947 1.428765021 1.71135519 -0.1435323
## 266 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 267 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 268 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 269 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 270 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 271 -0.1324813843 0.27735598 0.35292650 0.350017779 0.50142482 0.7591612
## 272 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 273 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 274 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 275 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 276 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 277 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 278 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 279 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 280 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 281 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 282 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 283 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 284 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 285 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 286 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 287 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 288 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 289 -0.1450173011 -0.23946605 -0.16476947 -0.232505731 0.40463038 -0.1435323
## 290 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 291 0.6071377110 4.79476334 4.87797273 5.441704758 6.21229620 8.6493708
## 292 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 293 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 294 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 295 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 296 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 297 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 298 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 299 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 300 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 301 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 302 0.5946017942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 303 0.2592660179 0.71761178 0.79392677 0.846241510 1.05799279 3.2332100
## 304 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 305 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 306 -0.2170988231 -0.23946605 0.85144854 1.493489855 -0.15193759 -0.1435323
## 307 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 308 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 309 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 310 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 311 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 312 -0.2170988231 0.67932866 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 313 0.1527107245 0.50705465 0.58301360 0.608917117 0.79180811 1.1603583
## 314 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 315 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 316 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 317 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 318 -0.2170988231 -0.23946605 4.62871171 -0.232505731 -0.15193759 -0.1435323
## 319 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 320 0.3344815191 1.44499093 1.52253591 1.666089414 1.97753988 2.7985798
## 321 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 322 -0.2170988231 3.47399593 -0.16476947 1.860263917 -0.15193759 -0.1435323
## 323 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 324 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 325 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 326 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 327 0.0022797221 0.43048843 0.50631790 1.277740407 0.69501368 1.0266259
## 328 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 329 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 330 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 331 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 332 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 333 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 334 0.0712272649 1.52155716 0.71723107 0.759941731 2.07433431 4.4702343
## 335 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 336 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 337 3.7003751985 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 338 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 339 -0.2170988231 3.78026084 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 340 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 341 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 342 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 343 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 344 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 345 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 346 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 347 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 348 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 349 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 350 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 351 -0.2170988231 -0.23946605 -0.16476947 0.155843276 -0.15193759 -0.1435323
## 352 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 353 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 354 -0.0635338415 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 355 -0.2170988231 8.06796952 -0.16476947 4.449257296 -0.15193759 -0.1435323
## 356 0.2874718309 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 357 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 358 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 10.83423025 -0.1435323
## 359 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 360 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 361 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 362 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 363 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 364 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 365 -0.2170988231 1.17700914 -0.16476947 1.364040186 1.63875937 -0.1435323
## 366 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 367 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 368 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 369 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 370 -0.2170988231 0.21993131 -0.16476947 -0.232505731 1.00959557 -0.1435323
## 371 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 372 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 373 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 374 -0.2170988231 0.23907286 0.06531763 0.026393607 -0.15193759 -0.1435323
## 375 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 376 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 377 -0.2170988231 -0.23946605 1.61840553 -0.232505731 -0.15193759 -0.1435323
## 378 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 379 -0.1606871972 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 380 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 381 0.1307728700 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 382 2.9168803942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 383 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 384 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 385 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 386 -0.2170988231 -0.23946605 2.74966709 3.046885882 -0.15193759 -0.1435323
## 387 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 388 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 389 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 390 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 391 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 392 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 393 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 394 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 395 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 396 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 397 0.0022797221 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 398 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 399 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 400 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 401 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 402 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 403 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 404 -0.0698017999 0.04765730 0.12283940 0.091118442 0.21104152 0.3579641
## 405 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 406 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 407 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 408 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 409 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 410 0.0148156390 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 411 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 412 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 413 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 414 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 415 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 416 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 417 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 418 -0.2170988231 1.50241560 -0.16476947 1.730814248 2.05013570 -0.1435323
## 419 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 420 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 421 0.2498640802 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 422 0.1401748076 -0.23946605 4.22605929 -0.232505731 -0.15193759 -0.1435323
## 423 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 424 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 425 -0.2170988231 -0.23946605 -0.16476947 7.059825620 -0.15193759 -0.1435323
## 426 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 427 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 428 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 429 0.1621126622 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 430 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 431 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 432 0.1527107245 0.50705465 0.58301360 0.608917117 0.79180811 1.1603583
## 433 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 434 0.8265162562 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 435 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 436 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 437 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 438 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 439 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 440 0.1934524543 1.00473513 1.08153564 1.169865683 1.42097190 2.0296187
## 441 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 442 -0.2170988231 2.99545702 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 443 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 444 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 445 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 446 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 447 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 448 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 449 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 450 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 451 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 452 -0.2170988231 1.31100003 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 453 -0.2170988231 -0.23946605 -0.16476947 1.148290738 -0.15193759 -0.1435323
## 454 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 455 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 456 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 457 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 458 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 459 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 460 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 461 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 462 -0.2076968855 -0.23946605 -0.14559554 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

## 517	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 518	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 519	-0.2108308647	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 520	-0.2014289270	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 521	1.1430481572	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 522	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 523	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 524	-0.2014289270	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 525	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 526	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 527	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 528	-0.2170988231	0.52619621	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 529	0.5099843553	4.20137508	4.28358106	4.772881468	5.46213937	7.6129449
## 530	-0.2170988231	2.78489989	-0.16476947	-0.232505731	1.75975241	-0.1435323
## 531	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 532	-0.2170988231	-0.23946605	17.26432809	-0.232505731	-0.15193759	-0.1435323
## 533	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 534	-0.1920269894	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 535	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 536	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 537	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 538	-0.2170988231	0.60276244	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 539	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 540	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 541	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 542	-0.1794910725	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 543	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 544	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 545	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 546	-0.1920269894	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 547	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 548	-0.2170988231	-0.23946605	0.62136144	-0.232505731	-0.15193759	-0.1435323
## 549	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 550	-0.2170988231	-0.23946605	-0.16476947	3.996183455	-0.15193759	-0.1435323
## 551	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 552	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 553	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 554	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 555	-0.2170988231	-0.23946605	-0.16476947	-0.23		

```

## 571 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 572 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 573 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 574 -0.0698017999 -0.23946605 0.73640499 -0.232505731 -0.15193759 -0.1435323
## 575 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 576 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 577 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 578 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 579 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 580 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 581 -0.1544192388 -0.23946605 0.21870903 -0.232505731 -0.15193759 -0.1435323
## 582 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 583 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 584 0.0273515558 1.25357536 1.33079666 1.450339965 1.73555380 2.4642489
## 585 -0.2170988231 -0.23946605 -0.06889984 -0.232505731 -0.15193759 -0.1435323
## 586 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 587 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 588 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 589 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 590 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 591 1.2746752843 8.87191490 8.96201869 10.037168005 11.36659962 15.7706193
## 592 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 593 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 594 0.0649593064 -0.23946605 3.28653698 -0.232505731 -0.15193759 -0.1435323
## 595 0.8703919653 1.40670782 1.48418806 1.622939524 1.92914266 2.7317136
## 596 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 597 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 598 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 599 -0.2170988231 -0.23946605 5.12723375 -0.232505731 -0.15193759 -0.1435323
## 600 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 601 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 602 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 603 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 604 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 605 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 606 -0.2170988231 0.85160267 -0.16476947 0.997266124 -0.15193759 -0.1435323
## 607 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 608 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 609 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 610 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 611 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 612 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 613 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 614 -0.0039882363 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 615 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 616 -0.2170988231 -0.23946605 -0.16476947 1.105140848 -0.15193759 -0.1435323
## 617 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 618 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 619 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 620 2.1929311950 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 621 -0.2170988231 -0.23946605 2.76884101 -0.232505731 -0.15193759 -0.1435323
## 622 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 623 -0.2170988231 -0.23946605 -0.16476947 0.457892504 -0.15193759 -0.1435323
## 624 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 625 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 626 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 627 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 628 0.0022797221 -0.23946605 -0.16476947 -0.232505731 1.54196494 -0.1435323
## 629 0.3846251866 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.9961856
## 630 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 631 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 632 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 633 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 634 -0.2170988231 0.58362088 -0.16476947 0.220568111 -0.15193759 -0.1435323
## 635 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 636 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 637 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 638 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 639 -0.2170988231 -0.23946605 -0.16476947 1.083565903 -0.15193759 -0.1435323
## 640 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 641 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 642 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 643 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 644 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 645 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 646 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 647 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 648 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 649 0.1621126622 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 650 0.3501514152 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 651 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 652 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 653 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 654 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 655 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 656 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 657 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 658 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 659 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 660 1.2746752843 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 661 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 662 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 663 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 664 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 665 0.0994330778 0.39220532 -0.16476947 1.213015572 -0.15193759 -0.1435323
## 666 0.0649593064 1.48327404 1.56088376 1.709239303 2.02593709 2.8654460
## 667 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 668 0.1809165375 2.19151164 -0.16476947 -0.232505731 -0.15193759 1.9627525
## 669 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 670 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 671 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 672 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 673 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 674 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 675 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 676 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 677 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 678 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 679 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 680 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 681 0.3344815191 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 682 -0.1763570933 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 683 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 684 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 685 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 686 -0.1199454674 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 687 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 688 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 689 -0.2170988231 -0.23946605 -0.16476947 7.189275289 -0.15193759 -0.1435323
## 690 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 691 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 692 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 693 -0.2170988231 -0.23946605 -0.16476947 0.479467448 0.64661646 -0.1435323
## 694 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 695 -0.2170988231 -0.23946605 0.79392677 0.306867890 -0.15193759 -0.1435323
## 696 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 697 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 698 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 699 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 700 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 701 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 702 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 703 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 704 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 705 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 706 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 707 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 708 0.2655339763 0.73675333 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 709 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 710 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 711 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 712 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 713 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 714 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 715 -0.2170988231 -0.23946605 0.10366548 0.716791841 -0.15193759 -0.1435323
## 716 1.0866365313 7.72342150 7.81158321 8.742671316 9.91468316 13.7646338
## 717 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 718 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 719 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 720 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 721 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 722 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 723 -0.2170988231 -0.23946605 0.56383967 -0.232505731 -0.15193759 -0.1435323
## 724 -0.2170988231 2.74661678 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 725 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 726 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 727 -0.2170988231 -0.23946605 -0.16476947 4.600281910 -0.15193759 -0.1435323
## 728 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 729 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 730 -0.2170988231 -0.23946605 -0.16476947 3.909883675 -0.15193759 -0.1435323
## 731 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 732 -0.1074095505 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 733 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 734 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 735 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 736 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 737 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 738 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 739 -0.2170988231 1.40670782 -0.16476947 1.622939524 1.92914266 -0.1435323
## 740 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 741 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 742 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 743 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 744 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 745 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 746 0.1683806206 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 747 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 748 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 749 0.6854871915 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 750 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 751 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 752 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 753 -0.2170988231 -0.23946605 1.73344908 1.903413807 -0.15193759 -0.1435323
## 754 -0.2170988231 -0.23946605 2.40453644 -0.232505731 -0.15193759 -0.1435323
## 755 0.2091223504 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 756 1.3498907855 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 757 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 758 -0.2170988231 3.66541150 -0.16476947 4.168783013 4.78457836 -0.1435323
## 759 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 760 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 761 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 762 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 763 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 764 0.0336195143 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 765 -0.0165241532 0.37306376 0.44879612 0.457892504 0.62241785 0.9263266
## 766 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 767 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 768 -0.2170988231 -0.23946605 6.00923429 -0.232505731 2.43731342 -0.1435323
## 769 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 770 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 771 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 772 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 773 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 774 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 775 -0.0760697583 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 776 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 777 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 778 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 779 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 780 -0.1638211764 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 781 -0.2170988231 -0.23946605 0.44879612 -0.232505731 -0.15193759 -0.1435323
## 782 0.2153903089 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 783 -0.2170988231 1.65554805 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 784 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 785 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 786 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 787 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 788 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 789 0.0712272649 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 790 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 791 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 792 -0.2170988231 0.23907286 0.81310069 0.867816455 -0.15193759 -0.1435323
## 793 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 794 -0.2170988231 -0.23946605 -0.16476947 0.069543497 -0.15193759 -0.1435323
## 795 -0.2170988231 0.96645201 -0.16476947 1.126715793 -0.15193759 -0.1435323
## 796 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 797 -0.1826250517 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 798 -0.2170988231 1.10044291 0.50631790 0.522617338 -0.15193759 -0.1435323
## 799 0.1339068492 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 800 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 801 -0.0635338415 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 802 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 803 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 804 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 805 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 806 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 807 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 808 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 809 -0.2170988231 0.37306376 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 810 -0.2170988231 -0.23946605 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 811 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 812 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 813 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 814 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 815 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 816 1.1430481572 8.06796952 8.15671386 9.131020323 10.35025810 14.3664294
## 817 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 818 -0.2170988231 6.05810608 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 819 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 820 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 821 -0.1293474050 0.29649753 0.37210042 0.371592724 0.52562342 0.7925943
## 822 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 823 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 824 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 825 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 826 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 827 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 828 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 829 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 830 -0.2170988231 0.54533777 0.62136144 -0.232505731 -0.15193759 -0.1435323
## 831 0.1213709323 2.86146612 0.87062247 0.932541290 1.15478722 1.6618547
## 832 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 833 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 834 -0.0478639454 0.79417800 0.87062247 0.932541290 1.15478722 1.6618547
## 835 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 836 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 837 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 838 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 839 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 840 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 841 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 842 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 843 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 844 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 845 -0.2170988231 -0.23946605 -0.16476947 1.536639745 -0.15193759 -0.1435323
## 846 -0.1418833219 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 847 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 848 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 849 0.6510134201 5.06274513 10.47675875 5.743753985 6.55107671 9.1174341
## 850 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 851 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 852 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 853 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 854 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 855 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 856 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 857 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 858 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 859 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 860 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 861 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 862 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 863 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 864 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 865 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 866 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 867 -0.2170988231 0.88988579 -0.16476947 1.040416014 1.27578026 -0.1435323
## 868 -0.2170988231 -0.23946605 -0.16476947 5.053355751 -0.15193759 -0.1435323
## 869 0.2937397893 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 870 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 871 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 872 0.0054137013 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 873 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 874 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 875 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 876 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 877 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 878 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 879 -0.2170988231 0.16250664 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 880 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 881 0.0524233896 1.40670782 1.48418806 1.622939524 1.92914266 2.7317136
## 882 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 883 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 884 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 885 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 886 -0.2170988231 2.65090900 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 887 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 888 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 889 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 890 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 891 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 892 0.0273515558 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 893 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 894 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

## 895	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 896	0.5946017942	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 897	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 898	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 899	1.0866365313	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 900	-0.2170988231	3.09116480	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 901	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 902	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 903	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 904	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 905	-0.0635338415	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 906	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 907	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 908	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 909	0.4786445631	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 910	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 911	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 912	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 913	0.9017317574	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 914	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 915	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 916	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 917	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 918	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 919	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 920	0.0116816597	1.15786758	1.23492704	1.342465241	1.61456076	2.2970834
## 921	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 922	0.1119689947	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 923	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 924	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 925	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 926	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 927	-0.0948736337	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 928	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 929	-0.2170988231	0.23907286	0.81310069	0.867816455	-0.15193759	-0.1435323
## 930	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 931	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 932	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
## 933	-0.2170988231	-0.23946605	-0.16476947	0.285		

```

## 949 0.4974484384 1.94267140 0.37210042 2.227037979 2.60670367 0.7925943
## 950 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 951 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 952 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 953 -0.2170988231 -0.23946605 -0.16476947 0.436317559 -0.15193759 -0.1435323
## 954 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 955 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 956 -0.2170988231 3.91425173 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 957 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 958 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 959 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 960 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 961 0.0649593064 -0.23946605 1.56088376 -0.232505731 -0.15193759 -0.1435323
## 962 -0.0509979246 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 963 0.0555573688 4.23965820 0.94731816 2.291762814 1.25158165 1.7955870
## 964 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 965 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 966 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 967 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 968 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 969 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 970 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 971 0.4473047709 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 972 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 973 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 974 0.1151029739 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 975 -0.2170988231 0.94731046 -0.16476947 0.436317559 -0.15193759 -0.1435323
## 976 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 977 -0.2170988231 -0.23946605 0.87062247 -0.232505731 -0.15193759 -0.1435323
## 978 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 979 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 980 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 981 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 982 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 983 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 984 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 985 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.4278230
## 986 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 987 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 988 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 989 0.1840505167 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 990 -0.2170988231 0.62190399 -0.16476947 -0.232505731 0.38043178 -0.1435323
## 991 -0.2170988231 3.91425173 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 992 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 993 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 994 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 995 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 996 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 997 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 998 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 999 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1000 5.0041105529 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1001 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1002 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1003 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1004 0.5946017942 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1005 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1006 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1007 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1008 -0.2170988231 8.06796952 -0.16476947 4.449257296 -0.15193759 -0.1435323
## 1009 -0.1544192388 0.14336508 0.21870903 0.198993166 0.33203456 0.5251295
## 1010 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1011 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1012 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1013 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1014 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1015 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1016 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1017 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1018 0.3814912074 0.96645201 1.04318779 1.126715793 1.37257469 1.9627525
## 1019 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1020 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1021 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1022 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1023 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1024 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1025 0.2937397893 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1026 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1027 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1028 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1029 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1030 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1031 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1032 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1033 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1034 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1035 -0.2170988231 -0.23946605 -0.06889984 -0.232505731 -0.15193759 -0.1435323
## 1036 -0.1324813843 0.27735598 0.35292650 0.350017779 0.50142482 0.7591612
## 1037 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1038 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1039 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1040 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1041 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1042 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1043 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1044 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1045 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1046 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1047 -0.0980076129 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1048 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1049 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1050 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1051 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1052 -0.2170988231 5.06274513 -0.16476947 5.743753985 6.55107671 -0.1435323
## 1053 -0.2170988231 -0.23946605 -0.16476947 1.622939524 -0.15193759 -0.1435323
## 1054 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1055 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1056 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

##	1111	0.0273515558	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1112	-0.2170988231	0.90902734	-0.16476947	1.061990959	-0.15193759	-0.1435323
##	1113	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1114	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1115	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1116	-0.2170988231	-0.23946605	-0.16476947	0.630492062	-0.15193759	-0.1435323
##	1117	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1118	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1119	0.2091223504	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1120	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1121	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1122	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1123	-0.2170988231	1.54069871	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1124	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1125	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1126	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1127	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1128	-0.2170988231	6.34522943	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1129	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1130	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1131	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1132	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1133	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1134	-0.2170988231	2.57434277	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1135	0.2592660179	-0.23946605	-0.16476947	-0.232505731	-0.15193759	2.3973827
##	1136	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1137	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1138	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1139	0.0022797221	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1140	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1141	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	1.4278230
##	1142	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1143	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1144	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1145	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1146	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1147	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0

```

## 1165 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1166 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1167 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1168 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1169 0.7324968797 5.56042560 5.64492972 6.304702551 7.18024051 9.9866944
## 1170 -0.2170988231 -0.23946605 -0.16476947 1.730814248 -0.15193759 -0.1435323
## 1171 0.2780698932 1.77039739 -0.16476947 0.889391400 -0.15193759 -0.1435323
## 1172 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1173 0.0837631817 1.59812338 0.75557892 1.838688972 2.17112874 1.4612561
## 1174 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1175 -0.1293474050 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1176 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1177 0.2592660179 1.21529225 1.29244881 4.708156634 1.68715659 2.3973827
## 1178 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1179 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1180 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1181 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1182 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1183 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1184 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1185 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1186 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1187 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1188 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1189 -0.2170988231 4.98617891 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1190 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1191 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1192 1.6256809566 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1193 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1194 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1195 -0.2170988231 -0.23946605 -0.16476947 1.515064800 -0.15193759 -0.1435323
## 1196 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1197 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1198 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1199 -0.2170988231 -0.23946605 2.74966709 3.046885882 -0.15193759 -0.1435323
## 1200 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1201 -0.1418833219 -0.23946605 -0.16476947 -0.232505731 0.42882899 -0.1435323
## 1202 0.0837631817 1.59812338 0.75557892 1.838688972 2.17112874 1.4612561
## 1203 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1204 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1205 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1206 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1207 -0.2170988231 3.34000504 -0.16476947 1.364040186 1.63875937 -0.1435323
## 1208 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1209 -0.2170988231 -0.23946605 1.56088376 -0.232505731 2.02593709 -0.1435323
## 1210 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1211 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1212 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1213 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1214 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1215 0.0837631817 1.59812338 1.06236171 0.457892504 0.62241785 0.9263266
## 1216 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1217 -0.2170988231 -0.23946605 3.74671117 -0.232505731 -0.15193759 -0.1435323
## 1218 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```



```

## 1219 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1220 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1221 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1222 -0.2170988231 1.71297272 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1223 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1224 -0.2170988231 1.80868051 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1225 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1226 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1227 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1228 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1229 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1230 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1231 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1232 -0.2170988231 -0.23946605 0.39127435 -0.232505731 -0.15193759 -0.1435323
## 1233 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1234 0.2216582673 0.43048843 0.50631790 0.522617338 0.69501368 1.0266259
## 1235 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1236 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1237 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1238 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1239 0.0586913480 1.44499093 -0.16476947 1.666089414 -0.15193759 -0.1435323
## 1240 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1241 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1242 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1243 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1244 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1245 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1246 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1247 -0.0321940493 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1248 -0.2170988231 -0.23946605 -0.16476947 2.593812041 -0.15193759 -0.1435323
## 1249 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1250 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1251 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1252 0.0586913480 1.44499093 0.67888322 0.716791841 0.91280114 1.3275237
## 1253 0.3908931450 0.98559357 1.06236171 1.148290738 1.39677330 1.9961856
## 1254 0.2655339763 0.73675333 -0.16476947 0.867816455 -0.15193759 -0.1435323
## 1255 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1256 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1257 -0.2170988231 0.44962999 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1258 0.0116816597 1.15786758 2.65379746 1.342465241 1.61456076 2.2970834
## 1259 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1260 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1261 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1262 -0.2170988231 -0.23946605 -0.16476947 6.714626502 -0.15193759 -0.1435323
## 1263 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1264 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1265 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1266 -0.2170988231 -0.23946605 21.13746088 -0.232505731 -0.15193759 -0.1435323
## 1267 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1268 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1269 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1270 0.2122563296 1.06215980 1.13905741 1.234590517 1.49356773 2.1299179
## 1271 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1272 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1273 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1274 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1275 -0.2170988231 -0.23946605 0.46797005 -0.232505731 -0.15193759 -0.1435323
## 1276 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1277 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1278 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1279 -0.2170988231 -0.23946605 -0.16476947 9.131020323 -0.15193759 -0.1435323
## 1280 0.1558447037 -0.23946605 2.11692757 -0.232505731 -0.15193759 -0.1435323
## 1281 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1282 -0.0447299662 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 1283 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1284 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1285 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1286 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1287 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1288 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1289 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1290 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1291 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1292 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1293 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1294 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1295 -0.0635338415 0.21993131 0.29540472 0.285292945 0.42882899 0.6588619
## 1296 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1297 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1298 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1299 -0.1982949478 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1300 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1301 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1302 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1303 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1304 0.4096970203 -0.23946605 -0.16476947 1.924988752 -0.15193759 3.1997769
## 1305 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1306 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1307 -0.0353280285 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1308 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1309 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1310 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1311 -0.2170988231 15.70545062 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1312 -0.2170988231 2.17237008 -0.16476947 2.485937317 2.89708696 -0.1435323
## 1313 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1314 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1315 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1316 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1317 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1318 -0.2170988231 1.46413249 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1319 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1320 -0.2170988231 -0.23946605 -0.16476947 1.536639745 -0.15193759 -0.1435323
## 1321 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1322 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1323 -0.2170988231 -0.23946605 -0.16476947 3.327360165 -0.15193759 -0.1435323
## 1324 -0.1920269894 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1325 -0.2170988231 0.79417800 -0.16476947 2.119163255 -0.15193759 -0.1435323
## 1326 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1327 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1328 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1329 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1330 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1331 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1332 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1333 0.4347688541 -0.23946605 3.82340687 -0.232505731 -0.15193759 -0.1435323
## 1334 -0.0071222156 0.39220532 0.46797005 0.479467448 0.64661646 0.9597597
## 1335 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1336 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1337 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1338 -0.2170988231 3.66541150 -0.16476947 4.168783013 4.78457836 -0.1435323
## 1339 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1340 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1341 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1342 -0.2170988231 -0.23946605 0.33375257 -0.232505731 0.47722621 -0.1435323
## 1343 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1344 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.47722621 -0.1435323
## 1345 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1346 0.3470174360 -0.23946605 -0.16476947 -0.232505731 -0.15193759 1.8624532
## 1347 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1348 -0.2170988231 3.11030636 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1349 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1350 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1351 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1352 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1353 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1354 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1355 -0.2170988231 -0.23946605 -0.16476947 0.134268331 -0.15193759 -0.1435323
## 1356 -0.2170988231 1.46413249 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1357 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1358 0.0085476805 -0.23946605 1.21575311 -0.232505731 -0.15193759 -0.1435323
## 1359 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1360 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1361 0.0743612441 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1362 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1363 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1364 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1365 -0.2170988231 -0.23946605 0.48714397 0.501042393 -0.15193759 -0.1435323
## 1366 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1367 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1368 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1369 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1370 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1371 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1372 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1373 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1374 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1375 -0.2014289270 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1376 0.9424734873 4.46935688 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1377 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 0.06584988 -0.1435323
## 1378 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1379 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1380 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

[illegible]

```

## 1435 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1436 -0.2170988231 -0.23946605 -0.16476947 7.059825620 -0.15193759 -0.1435323
## 1437 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1438 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1439 0.2592660179 1.21529225 1.29244881 4.708156634 1.68715659 2.3973827
## 1440 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1441 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1442 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1443 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1444 -0.2170988231 1.44499093 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1445 -0.2170988231 -0.23946605 -0.16476947 0.047968552 -0.15193759 -0.1435323
## 1446 0.1777825583 -0.23946605 2.25114505 -0.232505731 -0.15193759 -0.1435323
## 1447 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1448 0.4473047709 -0.23946605 3.90010257 -0.232505731 -0.15193759 -0.1435323
## 1449 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1450 0.1025670570 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1451 0.2435961218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1452 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1453 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1454 0.2592660179 1.21529225 1.29244881 3.046885882 1.68715659 2.3973827
## 1455 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1456 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1457 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1458 -0.2170988231 -0.14375827 -0.16476947 0.220568111 0.09004849 -0.1435323
## 1459 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1460 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1461 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1462 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1463 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1464 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1465 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1466 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1467 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1468 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1469 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1470 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1471 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1472 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1473 0.0022797221 -0.23946605 -0.16476947 -0.232505731 1.54196494 -0.1435323
## 1474 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1475 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1476 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1477 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1478 -0.1669551556 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1479 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1480 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1481 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1482 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1483 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1484 -0.2170988231 -0.23946605 -0.16476947 2.421212483 -0.15193759 -0.1435323
## 1485 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1486 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1487 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1488 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1489 -0.1512852596 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1490 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1491 -0.2170988231 -0.23946605 -0.16476947 1.709239303 -0.15193759 -0.1435323
## 1492 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1493 -0.2170988231 8.87191490 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1494 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1495 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1496 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1497 5.0041105529 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1498 -0.2170988231 -0.23946605 -0.16476947 -0.016756283 -0.15193759 -0.1435323
## 1499 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1500 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1501 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1502 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1503 0.0680932856 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1504 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1505 0.3814912074 0.96645201 1.04318779 1.126715793 1.37257469 1.9627525
## 1506 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1507 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1508 0.4222329372 3.66541150 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1509 -0.0008542571 -0.23946605 1.15823134 -0.232505731 -0.15193759 -0.1435323
## 1510 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1511 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1512 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1513 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1514 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1515 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1516 0.5851998565 1.38756626 1.46501413 1.601364579 1.90494405 2.6982805
## 1517 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1518 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1519 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1520 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1521 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1522 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1523 10.2284539081 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1524 -0.2170988231 2.63176744 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1525 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1526 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1527 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1528 0.0743612441 0.64104555 1.61840553 0.759941731 0.96119836 1.3943899
## 1529 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1530 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1531 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1532 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1533 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1534 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1535 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1536 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1537 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1538 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1539 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1540 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1541 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1542 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

##	1543	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1544	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1545	-0.2170988231	1.19615069	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1546	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1547	-0.2170988231	0.37306376	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1548	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1549	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1550	0.6760852538	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1551	-0.2170988231	0.29649753	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1552	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1553	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1554	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1555	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1556	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1557	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1558	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1559	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1560	-0.2170988231	-0.23946605	-0.16476947	1.169865683	-0.15193759	-0.1435323
##	1561	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1562	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1563	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1564	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1565	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1566	-0.2170988231	4.41193221	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1567	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1568	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1569	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1570	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1571	-0.2170988231	1.02387668	-0.16476947	0.479467448	-0.15193759	-0.1435323
##	1572	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1573	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1574	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1575	0.3407494776	1.46413249	-0.16476947	1.687664359	-0.15193759	-0.1435323
##	1576	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1577	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1578	-0.2170988231	5.56042560	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1579	-0.2170988231	-0.23946605	-0.16476947	0.134268331	-0.15193759	-0

##	1597	0.0085476805	-0.23946605	1.21575311	-0.232505731	-0.15193759	-0.1435323
##	1598	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1599	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1600	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1601	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1602	-0.1794910725	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1603	-0.2170988231	8.25938509	4.09184182	-0.232505731	-0.15193759	-0.1435323
##	1604	6.0508596114	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1605	0.0054137013	-0.23946605	-0.16476947	-0.232505731	-0.15193759	1.0266259
##	1606	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1607	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1608	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1609	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1610	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1611	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1612	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1613	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1614	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1615	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1616	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1617	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1618	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1619	0.2216582673	5.13931136	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1620	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1621	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1622	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1623	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1624	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1625	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1626	-0.2170988231	-0.23946605	-0.16476947	0.285292945	-0.15193759	-0.1435323
##	1627	-0.2170988231	-0.23946605	-0.16476947	7.750223854	-0.15193759	-0.1435323
##	1628	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1629	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1630	-0.2170988231	0.88988579	-0.16476947	1.666089414	-0.15193759	-0.1435323
##	1631	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1632	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0.1435323
##	1633	-0.2170988231	-0.23946605	-0.16476947	-0.232505731	-0.15193759	-0



```

## 1651 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1652 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1653 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1654 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1655 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1656 -0.1857590310 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1657 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1658 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1659 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1660 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1661 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1662 0.1652466414 0.92816890 1.00483994 3.737284117 1.32417747 1.8958863
## 1663 3.2647520873 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1664 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1665 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1666 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1667 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1668 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1669 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1670 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1671 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1672 0.7544347342 1.23443381 -0.16476947 1.428765021 1.71135519 -0.1435323
## 1673 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1674 2.5658747218 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1675 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1676 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1677 0.2153903089 5.06274513 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1678 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1679 0.4692426255 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1680 -0.2170988231 0.54533777 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1681 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1682 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1683 -0.2170988231 -0.23946605 -0.16476947 7.599199240 -0.15193759 -0.1435323
## 1684 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1685 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1686 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1687 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1688 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1689 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1690 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1691 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1692 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1693 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1694 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1695 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1696 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1697 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1698 1.0866365313 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1699 -0.0447299662 0.81331956 0.88979639 0.954116235 1.17898583 1.6952877
## 1700 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1701 0.0868971610 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1702 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1703 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 0.8928936
## 1704 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323

```

```

## 1705 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1706 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1707 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1708 -0.2170988231 -0.14375827 -0.16476947 0.004818662 0.23524013 -0.1435323
## 1709 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1710 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1711 6.0508596114 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1712 0.1495767453 0.50705465 0.58301360 1.450339965 0.79180811 1.1603583
## 1713 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 1.15478722 -0.1435323
## 1714 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1715 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1716 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1717 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1718 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1719 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1720 0.5851998565 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1721 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1722 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
## 1723 1.5222596425 0.71761178 0.79392677 0.846241510 1.05799279 1.5281223
## 1724 -0.2170988231 -0.23946605 -0.16476947 -0.232505731 -0.15193759 -0.1435323
##          V33          V34          V35          V36          V37          V38
## 1      1.964984278 -0.14625708 1.835428012 -0.24840201 -0.32331505 -0.06046324
## 2      -0.153528234 0.21921770 -0.202441590 0.99601659 -0.32331505 -0.06046324
## 3      -0.153528234 -0.14625708 -0.202441590 -0.08954006 -0.16803675 -0.06046324
## 4      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 5      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 6      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 7      -0.153528234 -0.14625708 0.511683655 0.83715464 0.73775338 -0.06046324
## 8      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 9      -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 10     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 11     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 12     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 13      0.860460661 -0.14625708 -0.202441590 -0.24840201 1.56590435 -0.06046324
## 14     -0.153528234 0.98339224 0.389759833 0.65181570 0.55659535 -0.06046324
## 15     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 16     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 17     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 18     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 19     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 20     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 21     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 22     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 23     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 24     -0.153528234 0.51824252 0.494265966 0.28113782 2.26465673 -0.06046324
## 25     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 26     -0.153528234 -0.14625708 -0.202441590 0.33409181 0.03900100 -0.06046324
## 27     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 28      3.576502343 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 29     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 30     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 31     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 32     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 33     -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

## 34	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 35	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 36	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 37	-0.153528234	-0.14625708	-0.202441590	-0.24840201	4.64559077	-0.06046324
## 38	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 39	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 40	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 41	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 42	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 43	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 44	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 45	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 46	-0.153528234	2.11304155	0.981961256	1.55203341	1.43650576	-0.06046324
## 47	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.97997983	-0.06046324
## 48	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 49	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 50	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 51	0.480214825	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 52	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 53	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 54	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 55	-0.153528234	-0.14625708	-0.202441590	-0.24840201	4.12799641	-0.06046324
## 56	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 57	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 58	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 59	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 60	1.620952332	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 61	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 62	1.783914833	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 63	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 64	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 65	-0.153528234	14.27338413	7.356835397	11.24261227	-0.32331505	-0.06046324
## 66	-0.153528234	-0.14625708	-0.202441590	0.65181570	2.36817560	-0.06046324
## 67	0.914781495	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 68	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 69	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 70	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.91164968	-0.06046324
## 71	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 72	-0.153528234	1.31564203	1.330315034	0.91658562	-0.32331505	-0.06046324
## 73	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 74	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 75	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 76	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 77	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.15182886	-0.06046324
## 78	0.697498160	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 79	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 80	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 81	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 82	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.43650576	-0.06046324
## 83	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 84	0.950995384	-0.14625708	-0.202441590	0.14875287	2.83401052	-0.06046324
## 85	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.66011422	-0.06046324
## 86	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 87	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

## 88	-0.153528234	1.14951713	0.476848277	0.78420066	0.68599394	-0.06046324
## 89	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.06488071	-0.06046324
## 90	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.25534773	-0.06046324
## 91	1.476096776	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 92	4.246459292	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 93	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 94	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 95	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 96	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 97	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 98	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 99	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 100	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 101	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 102	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 103	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 104	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 105	-0.153528234	-0.14625708	3.072083925	-0.24840201	-0.32331505	-0.06046324
## 106	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 107	-0.153528234	-0.14625708	-0.202441590	0.01636791	0.19427930	-0.06046324
## 108	-0.153528234	-0.14625708	-0.202441590	2.00214227	-0.32331505	-0.06046324
## 109	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 110	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 111	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 112	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 113	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 114	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 115	0.226717602	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 116	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 117	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 118	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.45307648	-0.06046324
## 119	-0.153528234	-0.14625708	-0.202441590	-0.24840201	8.91574421	-0.06046324
## 120	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 121	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 122	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 123	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.74706237	-0.06046324
## 124	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 125	6.672789861	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 126	-0.153528234	-0.14625708	0.285253699	-0.24840201	1.12594915	-0.06046324
## 127	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.58247507	-0.06046324
## 128	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 129	1.675273166	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 130	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 131	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 132	-0.153528234	-0.14625708	-0.202441590	1.18135553	-0.32331505	-0.06046324
## 133	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 134	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 135	-0.153528234	-0.14625708	-0.202441590	0.57238473	0.47895620	-0.06046324
## 136	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 137	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 138	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 139	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 140	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 141	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

## 142	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 143	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 144	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 145	-0.153528234	-0.14625708	-0.202441590	0.25466083	-0.32331505	-0.06046324
## 146	1.005316217	0.91694228	0.354924455	0.59886172	2.16113786	-0.06046324
## 147	-0.153528234	-0.14625708	-0.202441590	-0.01010908	0.14251987	-0.06046324
## 148	0.190503713	-0.14625708	-0.202441590	-0.24840201	-0.32331505	0.40326746
## 149	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 150	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 151	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 152	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 153	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 154	0.154289824	-0.14625708	0.250418322	-0.03658607	1.72118266	-0.06046324
## 155	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 156	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 157	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 158	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 159	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 160	-0.153528234	-0.14625708	1.696086501	-0.24840201	-0.32331505	-0.06046324
## 161	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 162	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 163	-0.153528234	-0.14625708	0.128494499	-0.24840201	-0.32331505	-0.06046324
## 164	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 165	-0.153528234	-0.14625708	0.651025167	1.04897057	-0.32331505	-0.06046324
## 166	0.136182879	-0.14625708	-0.202441590	0.41352278	0.32367789	-0.06046324
## 167	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 168	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 169	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 170	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 171	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 172	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 173	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 174	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.34955761	-0.06046324
## 175	0.679391215	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 176	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 177	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.43650576	-0.06046324
## 178	-0.153528234	-0.14625708	0.546519033	-0.24840201	3.06692798	-0.06046324
## 179	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 180	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 181	-0.153528234	-0.14625708	3.281096192	5.04699628	-0.32331505	-0.06046324
## 182	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 183	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 184	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 185	0.118075934	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 186	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 187	-0.153528234	1.68111681	0.755531300	1.20783252	1.10006943	-0.06046324
## 188	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 189	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 190	-0.153528234	-0.14625708	-0.202441590	-0.24840201	5.42198230	-0.06046324
## 191	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 192	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 193	0.154289824	-0.14625708	-0.202441590	-0.24840201	7.00064509	-0.06046324
## 194	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 195	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

```

## 196 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 197 1.150171774 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 198 -0.153528234 -0.14625708 0.006570677 1.10192456 -0.32331505 -0.06046324
## 199 -0.153528234 -0.14625708 -0.202441590 0.73124668 1.59178407 -0.06046324
## 200 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 201 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 202 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 203 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 204 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 205 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 206 -0.153528234 2.17949151 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 207 -0.153528234 7.56193822 3.838462237 5.89426001 -0.32331505 -0.06046324
## 208 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 209 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 210 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 211 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 212 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 213 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 214 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 215 -0.153528234 -0.14625708 1.992187213 -0.24840201 -0.32331505 -0.06046324
## 216 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 217 -0.153528234 -0.14625708 6.015673351 9.20388393 -0.32331505 -0.06046324
## 218 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 219 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 220 0.462107881 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 221 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 222 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 223 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 224 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 225 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 226 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 227 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 228 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 229 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 230 0.045648156 -0.14625708 -0.202441590 2.08157324 0.81539253 -0.06046324
## 231 -0.153528234 -0.14625708 -0.202441590 1.65794138 -0.32331505 -0.06046324
## 232 -0.153528234 -0.14625708 0.842619745 -0.24840201 -0.32331505 -0.06046324
## 233 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 234 1.113957885 -0.14625708 -0.028264701 0.01636791 -0.32331505 -0.06046324
## 235 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 236 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 237 -0.153528234 1.51499191 0.668442855 1.07544757 0.97067084 -0.06046324
## 238 -0.153528234 -0.14625708 -0.202441590 0.28113782 0.19427930 -0.06046324
## 239 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 240 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 241 1.476096776 -0.14625708 -0.202441590 -0.24840201 1.41062604 -0.06046324
## 242 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 243 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 244 4.155924569 -0.14625708 3.942968371 -0.24840201 -0.32331505 -0.06046324
## 245 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 246 -0.153528234 -0.14625708 -0.202441590 5.04699628 4.85262851 -0.06046324
## 247 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 248 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 249 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 250 -0.153528234 -0.14625708 -0.202441590 2.08157324 1.95410012 -0.06046324
## 251 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.45307648 -0.06046324
## 252 -0.153528234 -0.14625708 0.389759833 -0.24840201 -0.32331505 -0.06046324
## 253 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 254 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 255 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 256 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 257 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 258 -0.153528234 -0.14625708 -0.202441590 0.06932189 -0.32331505 -0.06046324
## 259 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.03863816 -0.06046324
## 260 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 261 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 262 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 263 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 4.57684376
## 264 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 265 -0.153528234 -0.14625708 2.497300191 1.79032633 -0.32331505 -0.06046324
## 266 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 267 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.06488071 -0.06046324
## 268 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 269 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 270 -0.153528234 -0.14625708 1.696086501 -0.24840201 -0.32331505 -0.06046324
## 271 -0.153528234 0.75081738 0.267836011 0.46647676 -0.32331505 -0.06046324
## 272 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 273 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 274 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 275 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 276 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.33503416 -0.06046324
## 277 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 278 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 279 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 280 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 281 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 282 -0.153528234 1.28241705 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 283 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 284 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 285 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 286 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 287 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 288 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.45512375 -0.06046324
## 289 -0.153528234 -0.14625708 0.198165255 -0.24840201 -0.32331505 -0.06046324
## 290 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 291 -0.153528234 8.59191259 4.378410593 6.71504674 -0.32331505 -0.06046324
## 292 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 293 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 294 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 295 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 296 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 297 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 298 -0.153528234 -0.14625708 -0.202441590 0.86363163 -0.32331505 -0.06046324
## 299 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 300 -0.153528234 -0.14625708 0.111076810 -0.24840201 -0.32331505 -0.06046324
## 301 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 302 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 303 -0.153528234 3.20946588 0.668442855 1.07544757 0.97067084 -0.06046324

```

## 304	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 305	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 306	-0.153528234	-0.14625708	-0.202441590	1.86975731	0.34955761	-0.06046324
## 307	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	0.50631873
## 308	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 309	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 310	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 311	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 312	-0.153528234	-0.14625708	-0.202441590	0.38704579	-0.32331505	-0.06046324
## 313	0.552642604	1.14951713	0.476848277	0.78420066	1.69530294	-0.06046324
## 314	-0.153528234	-0.14625708	-0.202441590	-0.24840201	5.42198230	-0.06046324
## 315	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.80813080	-0.06046324
## 316	0.462107881	-0.14625708	-0.202441590	-0.24840201	0.24603874	-0.06046324
## 317	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 318	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 319	-0.153528234	-0.14625708	-0.202441590	1.28726350	-0.32331505	-0.06046324
## 320	-0.153528234	2.77754114	1.330315034	2.08157324	1.95410012	-0.06046324
## 321	0.262931491	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 322	-0.153528234	-0.14625708	3.176590059	-0.24840201	-0.32331505	-0.06046324
## 323	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 324	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 325	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.90234068	-0.06046324
## 326	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 327	0.480214825	1.01661721	0.407177522	0.67829269	0.58247507	-0.06046324
## 328	-0.153528234	-0.14625708	5.075118150	-0.24840201	-0.32331505	-0.06046324
## 329	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 330	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 331	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 332	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 333	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 334	-0.153528234	4.43879013	1.399985790	0.96953960	-0.32331505	-0.06046324
## 335	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.45307648	7.77143303
## 336	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 337	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 338	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 339	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 340	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 341	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 342	-0.153528234	0.25244268	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 343	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 344	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 345	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 346	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 347	0.208610657	-0.14625708	-0.202441590	-0.24840201	0.86715197	-0.06046324
## 348	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 349	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 350	32.764896956	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 351	-0.153528234	-0.14625708	-0.202441590	0.73124668	-0.32331505	-0.06046324
## 352	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.85058124	-0.06046324
## 353	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 354	-0.153528234	-0.14625708	-0.202441590	-0.24840201	4.82674879	-0.06046324
## 355	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 356	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 357	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324



```

## 358 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 359 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 360 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 361 1.783914833 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 362 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 363 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 364 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 365 -0.153528234 -0.14625708 1.086467389 1.71089536 -0.32331505 -0.06046324
## 366 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.05035726 -0.06046324
## 367 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 368 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.74706237 -0.06046324
## 369 0.462107881 -0.14625708 -0.202441590 0.04284490 0.24603874 -0.06046324
## 370 -0.153528234 -0.14625708 0.424595211 -0.24840201 -0.01275844 -0.06046324
## 371 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 372 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 373 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 374 -0.153528234 -0.14625708 -0.202441590 1.44612545 -0.32331505 0.55784436
## 375 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 376 -0.153528234 -0.14625708 -0.202441590 0.09579888 0.37543733 -0.06046324
## 377 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 378 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.84127225 -0.06046324
## 379 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 380 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 381 1.856342611 -0.14625708 -0.202441590 -0.24840201 -0.32331505 5.65888206
## 382 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 383 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 384 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 385 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 386 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.29053645 -0.06046324
## 387 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 388 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 389 -0.153528234 -0.14625708 -0.202441590 1.39317146 -0.32331505 -0.06046324
## 390 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 391 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 392 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.11664015 -0.06046324
## 393 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 394 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 395 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 396 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 397 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 398 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 399 0.534535659 -0.14625708 -0.202441590 -0.24840201 -0.09039759 -0.06046324
## 400 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 401 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 402 3.178149563 -0.14625708 -0.202441590 0.04284490 2.03173927 -0.06046324
## 403 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 404 -0.153528234 0.35211762 0.058823744 0.14875287 0.89303168 -0.06046324
## 405 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 406 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 407 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 408 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 409 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 410 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 411 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 412 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 413 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 414 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 415 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 416 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 417 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 418 -0.153528234 -0.14625708 1.382568101 2.16100421 -0.32331505 -0.06046324
## 419 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.05966626 -0.06046324
## 420 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 421 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 422 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 423 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 424 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 425 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 426 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 427 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 428 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 429 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 430 -0.153528234 -0.14625708 -0.202441590 5.15290425 -0.32331505 -0.06046324
## 431 -0.153528234 -0.14625708 -0.202441590 1.15487854 -0.32331505 -0.06046324
## 432 0.552642604 1.14951713 0.476848277 0.78420066 1.69530294 -0.06046324
## 433 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.68599394 -0.06046324
## 434 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 435 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 436 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 437 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 438 0.462107881 -0.14625708 -0.202441590 0.04284490 -0.32331505 -0.06046324
## 439 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 440 -0.153528234 2.01336661 0.929708189 1.47260244 -0.32331505 -0.06046324
## 441 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 442 -0.153528234 -0.14625708 2.741147836 -0.24840201 -0.32331505 -0.06046324
## 443 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 444 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 445 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 446 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 447 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 448 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 449 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.33298689 -0.06046324
## 450 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 451 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 452 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 453 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.50483592 -0.06046324
## 454 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 455 -0.153528234 -0.14625708 -0.202441590 0.86363163 -0.32331505 -0.06046324
## 456 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 457 1.711487055 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 458 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.09039759 -0.06046324
## 459 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 460 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 461 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 462 2.037412057 -0.14625708 -0.202441590 -0.06306307 2.13525814 -0.06046324
## 463 -0.153528234 -0.14625708 0.685860544 -0.24840201 -0.32331505 -0.06046324
## 464 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 465 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 466 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 467 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 468 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 469 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.26465673 -0.06046324
## 470 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.22015902 -0.06046324
## 471 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 472 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 473 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.29779817 -0.06046324
## 474 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 475 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 476 2.689262060 -0.14625708 -0.202441590 0.04284490 1.90234068 -0.06046324
## 477 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 478 3.703250955 -0.14625708 -0.202441590 -0.24840201 0.76363310 -0.06046324
## 479 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 480 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 481 -0.099207400 -0.14625708 -0.202441590 -0.24840201 -0.32331505 0.09411366
## 482 -0.153528234 -0.14625708 -0.202441590 4.46450247 -0.32331505 -0.06046324
## 483 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 484 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 485 -0.153528234 -0.14625708 -0.202441590 0.01636791 0.19427930 -0.06046324
## 486 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 487 -0.153528234 -0.14625708 34.632936231 -0.24840201 -0.32331505 -0.06046324
## 488 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 489 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 490 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 491 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 492 0.154289824 -0.14625708 -0.202441590 -0.24840201 4.64559077 -0.06046324
## 493 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 494 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 495 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.25534773 -0.06046324
## 496 -0.153528234 -0.14625708 1.992187213 3.08769891 -0.32331505 -0.06046324
## 497 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 498 0.462107881 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 499 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 500 -0.153528234 -0.14625708 3.176590059 -0.24840201 -0.32331505 -0.06046324
## 501 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 502 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 503 0.099968990 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 504 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 505 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 506 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 507 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 508 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 509 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 510 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 511 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 512 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.03863816 -0.06046324
## 513 -0.153528234 -0.14625708 1.347732723 2.10805023 -0.32331505 -0.06046324
## 514 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 515 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.50483592 -0.06046324
## 516 -0.153528234 0.21921770 -0.202441590 0.99601659 -0.32331505 -0.06046324
## 517 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 518 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.12462633
## 519 0.045648156 -0.14625708 -0.202441590 -0.24840201 -0.32331505 0.04258803

```

## 520	1.476096776	-0.14625708	-0.202441590	-0.24840201	1.41062604	-0.06046324
## 521	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 522	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 523	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 524	0.860460661	-0.14625708	-0.202441590	-0.24840201	1.56590435	-0.06046324
## 525	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 526	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 527	-0.153528234	-0.14625708	-0.202441590	0.33409181	-0.32331505	-0.06046324
## 528	1.295027330	-0.14625708	0.494265966	-0.24840201	1.74706237	-0.06046324
## 529	-0.153528234	7.56193822	3.838462237	5.89426001	-0.32331505	-0.06046324
## 530	-0.153528234	-0.14625708	1.173555834	-0.24840201	-0.32331505	-0.06046324
## 531	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 532	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 533	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 534	0.606963437	-0.14625708	-0.202441590	0.41352278	-0.11627731	-0.06046324
## 535	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 536	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 537	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 538	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 539	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 540	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 541	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 542	0.733712049	-0.14625708	-0.202441590	-0.24840201	-0.01275844	-0.06046324
## 543	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 544	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.01275844	-0.06046324
## 545	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 546	0.878567606	-0.14625708	-0.202441590	-0.24840201	0.09076043	-0.06046324
## 547	-0.153528234	-0.14625708	-0.202441590	4.06734760	-0.32331505	-0.06046324
## 548	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.73775338	-0.06046324
## 549	-0.153528234	-0.14625708	-0.202441590	0.25466083	-0.32331505	-0.06046324
## 550	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 551	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 552	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 553	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 554	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 555	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 556	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 557	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 558	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 559	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 560	-0.153528234	-0.14625708	-0.202441590	-0.24840201	5.26670400	-0.06046324
## 561	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 562	-0.153528234	-0.14625708	-0.202441590	-0.24840201	3.97271811	-0.06046324
## 563	0.045648156	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 564	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 565	3.648930121	-0.14625708	-0.202441590	-0.24840201	-0.32331505	7.35922796
## 566	-0.153528234	-0.14625708	0.633607478	-0.24840201	-0.32331505	-0.06046324
## 567	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 568	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 569	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 570	0.697498160	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 571	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.26465673	-0.06046324
## 572	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 573	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

## 574	0.697498160	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 575	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 576	-0.008672677	-0.14625708	-0.202441590	-0.03658607	-0.11627731	-0.06046324
## 577	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 578	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 579	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 580	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 581	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 582	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 583	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 584	-0.153528234	2.44529134	1.156138145	1.81680333	-0.32331505	-0.06046324
## 585	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 586	-0.153528234	-0.14625708	-0.202441590	1.18135553	0.37543733	-0.06046324
## 587	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 588	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 589	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 590	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 591	-0.153528234	15.66883328	8.088378331	12.35464591	-0.32331505	-0.06046324
## 592	-0.153528234	-0.14625708	-0.202441590	-0.24840201	3.42924403	-0.06046324
## 593	-0.153528234	-0.14625708	-0.202441590	4.96756531	-0.32331505	-0.06046324
## 594	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 595	-0.153528234	2.71109118	1.295479656	2.02861926	4.15387613	-0.06046324
## 596	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	1.17615196
## 597	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 598	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 599	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 600	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 601	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 602	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 603	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 604	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 605	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 606	-0.153528234	-0.14625708	0.790366678	1.26078651	-0.32331505	-0.06046324
## 607	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 608	0.317252324	-0.14625708	-0.202441590	0.43999977	0.34955761	-0.06046324
## 609	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 610	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 611	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 612	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 613	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 614	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 615	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 616	-0.153528234	-0.14625708	-0.202441590	1.39317146	-0.32331505	-0.06046324
## 617	1.367455108	-0.14625708	-0.202441590	0.99601659	-0.09039759	0.40326746
## 618	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 619	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 620	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 621	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 622	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 623	-0.153528234	-0.14625708	0.354924455	-0.24840201	-0.32331505	-0.06046324
## 624	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 625	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 626	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.33298689	-0.06046324
## 627	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

```

## 628 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 629 -0.153528234 1.98014163 -0.202441590 -0.24840201 2.98928883 -0.06046324
## 630 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 631 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 632 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 633 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 634 -0.153528234 -0.14625708 0.546519033 -0.24840201 -0.32331505 -0.06046324
## 635 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 636 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 637 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 638 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 639 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 640 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 641 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 642 1.204492607 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 643 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 644 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 645 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 646 -0.153528234 2.11304155 0.981961256 1.55203341 1.43650576 -0.06046324
## 647 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 648 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 649 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 650 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 651 -0.153528234 -0.14625708 -0.202441590 1.63146439 -0.32331505 -0.06046324
## 652 -0.153528234 -0.14625708 -0.202441590 -0.24840201 9.61449659 -0.06046324
## 653 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 654 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.76363310 -0.06046324
## 655 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 656 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 657 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.03173927 -0.06046324
## 658 -0.153528234 -0.14625708 -0.202441590 0.04284490 0.27191846 -0.06046324
## 659 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 660 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 661 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 662 -0.153528234 -0.14625708 -0.202441590 1.28726350 -0.32331505 -0.06046324
## 663 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 664 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 665 -0.153528234 -0.14625708 0.372342144 -0.24840201 0.53071564 -0.06046324
## 666 -0.153528234 2.84399110 1.365150412 2.13452722 -0.32331505 -0.06046324
## 667 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 668 -0.153528234 1.94691665 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 669 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 670 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 671 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 672 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 673 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 674 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 675 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.29258372 -0.06046324
## 676 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 677 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 678 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 679 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 680 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 681 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

## 682	0.788032883	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 683	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.42719676	-0.06046324
## 684	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 685	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 686	2.689262060	-0.14625708	-0.202441590	-0.24840201	0.47895620	-0.06046324
## 687	-0.153528234	-0.14625708	-0.202441590	1.65794138	-0.32331505	-0.06046324
## 688	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 689	-0.153528234	-0.14625708	2.793400903	-0.24840201	-0.32331505	-0.06046324
## 690	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 691	-0.153528234	-0.14625708	0.006570677	-0.24840201	-0.32331505	-0.06046324
## 692	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 693	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.38474632	-0.06046324
## 694	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 695	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.61766378	-0.06046324
## 696	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.14251987	-0.06046324
## 697	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.97997983	-0.06046324
## 698	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 699	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 700	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.04830999	-0.06046324
## 701	-0.153528234	-0.14625708	-0.202441590	-0.24840201	4.28327472	-0.06046324
## 702	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 703	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 704	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 705	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 706	-0.153528234	-0.14625708	-0.202441590	1.39317146	-0.32331505	-0.06046324
## 707	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 708	-0.153528234	-0.14625708	0.685860544	-0.24840201	0.99655056	-0.06046324
## 709	9.515580155	-0.14625708	-0.202441590	0.30761481	-0.32331505	-0.06046324
## 710	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 711	-0.153528234	-0.14625708	-0.202441590	1.81680333	-0.32331505	-0.06046324
## 712	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 713	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 714	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 715	0.099968990	-0.14625708	-0.202441590	-0.24840201	3.48100347	-0.06046324
## 716	-0.153528234	13.67533449	7.043316997	10.76602643	-0.32331505	-0.06046324
## 717	1.240706496	-0.14625708	-0.202441590	-0.24840201	5.68077948	-0.06046324
## 718	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 719	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 720	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 721	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 722	-0.153528234	-0.14625708	-0.202441590	-0.24840201	3.42924403	-0.06046324
## 723	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 724	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 725	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 726	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 727	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 728	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 729	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 730	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.33298689	-0.06046324
## 731	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 732	0.480214825	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 733	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 734	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 735	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

```

## 736 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 737 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 738 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 739 -0.153528234 -0.14625708 1.295479656 2.02861926 -0.32331505 -0.06046324
## 740 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 741 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 742 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 743 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 744 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 745 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 746 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 747 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 748 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 749 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.16113786 -0.06046324
## 750 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 751 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 752 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 753 -0.153528234 -0.14625708 -0.202441590 1.04897057 0.94479112 -0.06046324
## 754 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.81539253 -0.06046324
## 755 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 756 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 757 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.74706237 -0.06046324
## 758 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 759 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 760 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.91891140 -0.06046324
## 761 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 762 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 763 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 764 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 765 1.005316217 0.91694228 0.354924455 0.59886172 2.16113786 -0.06046324
## 766 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 767 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 768 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.44581475 -0.06046324
## 769 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 770 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 771 -0.153528234 -0.14625708 -0.202441590 5.25881221 5.05966626 -0.06046324
## 772 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 773 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 774 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 775 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 776 -0.008672677 -0.14625708 -0.202441590 -0.03658607 -0.32331505 -0.06046324
## 777 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 778 5.025057907 -0.14625708 -0.202441590 0.75772367 0.16839959 -0.06046324
## 779 -0.153528234 -0.14625708 3.072083925 -0.24840201 -0.32331505 -0.06046324
## 780 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.55659535 -0.06046324
## 781 -0.153528234 -0.14625708 -0.202441590 0.59886172 1.33298689 -0.06046324
## 782 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 783 -0.153528234 -0.14625708 1.521909612 -0.24840201 -0.32331505 -0.06046324
## 784 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 785 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 786 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.32367789 -0.06046324
## 787 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 788 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 789 4.011069012 -0.14625708 -0.202441590 -0.24840201 2.05761899 -0.06046324

```



## 790	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 791	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 792	-0.153528234	-0.14625708	0.233000633	-0.24840201	-0.32331505	-0.06046324
## 793	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 794	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.67873221	-0.06046324
## 795	-0.153528234	-0.14625708	0.337506766	-0.24840201	0.47895620	-0.06046324
## 796	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 797	0.462107881	-0.14625708	-0.202441590	0.04284490	-0.32331505	-0.06046324
## 798	-0.153528234	-0.14625708	0.407177522	-0.24840201	-0.32331505	-0.06046324
## 799	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 800	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 801	0.281038435	0.65114244	0.215582944	0.38704579	0.29779817	-0.06046324
## 802	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 803	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 804	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 805	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 806	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 807	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 808	0.444000936	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 809	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 810	-0.153528234	-0.14625708	-0.202441590	1.10192456	-0.32331505	-0.06046324
## 811	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 812	-0.153528234	-0.14625708	1.208391212	-0.24840201	-0.32331505	-0.06046324
## 813	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 814	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 815	-0.153528234	14.27338413	7.356835397	11.24261227	-0.32331505	-0.06046324
## 816	-0.153528234	14.27338413	7.356835397	11.24261227	-0.32331505	-0.06046324
## 817	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 818	-0.153528234	-0.14625708	1.696086501	-0.24840201	-0.32331505	-0.06046324
## 819	-0.153528234	-0.14625708	0.685860544	-0.24840201	-0.32331505	-0.06046324
## 820	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 821	-0.153528234	0.78404236	0.285253699	0.49295375	1.12594915	-0.06046324
## 822	-0.153528234	-0.14625708	-0.202441590	0.89010863	-0.32331505	-0.06046324
## 823	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 824	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 825	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 826	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 827	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.32367789	-0.06046324
## 828	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 829	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 830	-0.153528234	-0.14625708	0.511683655	0.83715464	0.73775338	-0.06046324
## 831	-0.153528234	1.64789183	0.738113611	1.18135553	1.07418971	-0.06046324
## 832	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 833	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 834	-0.153528234	1.64789183	0.738113611	1.18135553	-0.32331505	-0.06046324
## 835	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 836	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 837	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 838	-0.153528234	-0.14625708	-0.202441590	0.33409181	0.03900100	-0.06046324
## 839	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 840	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 841	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 842	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 843	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

```

## 844 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 845 -0.153528234 -0.14625708 -0.202441590 0.22818384 -0.32331505 -0.06046324
## 846 -0.153528234 0.65114244 0.215582944 0.38704579 0.29779817 -0.06046324
## 847 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 848 -0.153528234 -0.14625708 -0.202441590 1.15487854 -0.32331505 -0.06046324
## 849 -0.153528234 9.05706231 4.622258238 7.08572462 -0.32331505 -0.06046324
## 850 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.54002463 -0.06046324
## 851 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 852 -0.153528234 -0.14625708 -0.202441590 0.54590774 0.45307648 -0.06046324
## 853 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 854 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 855 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 856 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 857 1.095850940 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 858 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 859 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 860 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 861 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 862 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 863 -0.153528234 -0.14625708 -0.202441590 -0.24840201 10.90848248 -0.06046324
## 864 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 865 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 866 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 867 -0.153528234 -0.14625708 0.825202056 1.31374049 -0.32331505 -0.06046324
## 868 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.25534773 -0.06046324
## 869 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 870 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.32367789 -0.06046324
## 871 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 872 -0.153528234 0.21921770 -0.202441590 0.99601659 -0.32331505 -0.06046324
## 873 -0.153528234 1.31564203 1.330315034 0.91658562 -0.32331505 -0.06046324
## 874 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 875 -0.153528234 -0.14625708 -0.063100079 -0.24840201 -0.32331505 -0.06046324
## 876 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 877 -0.153528234 -0.14625708 -0.202441590 0.86363163 -0.32331505 -0.06046324
## 878 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 879 -0.153528234 -0.14625708 0.163329877 -0.24840201 -0.32331505 -0.06046324
## 880 -0.153528234 -0.14625708 -0.028264701 -0.24840201 -0.32331505 -0.06046324
## 881 -0.153528234 2.71109118 1.295479656 2.02861926 1.90234068 -0.06046324
## 882 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 883 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 884 -0.153528234 -0.14625708 -0.202441590 1.18135553 -0.32331505 -0.06046324
## 885 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 886 -0.153528234 -0.14625708 2.427629435 -0.24840201 -0.32331505 -0.06046324
## 887 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 888 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 889 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 890 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 891 -0.153528234 -0.14625708 -0.202441590 3.69666972 -0.32331505 1.84598519
## 892 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 893 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 894 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 895 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 896 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 897 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

## 898	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 899	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 900	-0.153528234	-0.14625708	0.546519033	-0.24840201	3.06692798	-0.06046324
## 901	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 902	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 903	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 904	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 905	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.94479112	-0.06046324
## 906	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 907	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 908	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 909	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 910	-0.153528234	-0.14625708	-0.202441590	5.15290425	-0.32331505	-0.06046324
## 911	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 912	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 913	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 914	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 915	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 916	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 917	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 918	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 919	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 920	-0.153528234	2.27916644	1.069049700	1.68441837	1.56590435	-0.06046324
## 921	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 922	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 923	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 924	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 925	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 926	-0.153528234	-0.14625708	-0.202441590	-0.24840201	3.14456714	-0.06046324
## 927	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 928	-0.044886566	-0.14625708	-0.202441590	1.73737235	-0.16803675	-0.06046324
## 929	-0.153528234	-0.14625708	0.233000633	-0.24840201	-0.32331505	-0.06046324
## 930	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 931	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 932	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 933	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 934	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 935	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 936	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 937	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 938	-0.153528234	-0.14625708	-0.202441590	0.06932189	-0.01275844	-0.06046324
## 939	-0.062993511	-0.14625708	-0.202441590	0.36056880	-0.19391646	-0.06046324
## 940	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 941	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 942	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 943	-0.153528234	-0.14625708	0.581354411	-0.24840201	0.84127225	-0.06046324
## 944	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 945	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 946	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 947	-0.153528234	-0.14625708	-0.202441590	-0.01010908	-0.32331505	-0.06046324
## 948	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 949	0.878567606	0.78404236	1.783174946	2.76997502	0.40131705	-0.06046324
## 950	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 951	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

## 952	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 953	0.407787047	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 954	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 955	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.42719676	-0.06046324
## 956	-0.153528234	-0.14625708	2.305705613	-0.24840201	-0.32331505	-0.06046324
## 957	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 958	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.54933363	-0.06046324
## 959	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 960	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 961	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 962	3.703250955	-0.14625708	-0.202441590	-0.24840201	2.41993504	-0.06046324
## 963	-0.153528234	1.78079175	1.835428012	1.28726350	0.42719676	-0.06046324
## 964	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 965	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 966	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 967	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 968	0.444000936	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 969	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.29779817	-0.06046324
## 970	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 971	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 972	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 973	-0.153528234	-0.14625708	-0.202441590	1.28726350	-0.32331505	-0.06046324
## 974	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	5.40125389
## 975	-0.153528234	-0.14625708	0.337506766	3.03474493	-0.32331505	-0.06046324
## 976	3.685144011	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 977	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.07418971	2.72192096
## 978	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 979	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.78225109	-0.06046324
## 980	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 981	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 982	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 983	0.317252324	-0.14625708	-0.202441590	0.17522986	1.61766378	-0.06046324
## 984	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 985	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 986	-0.153528234	-0.14625708	-0.202441590	0.73124668	1.59178407	-0.06046324
## 987	-0.153528234	-0.14625708	-0.202441590	-0.01010908	-0.32331505	-0.06046324
## 988	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 989	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 990	-0.153528234	-0.14625708	0.581354411	-0.24840201	0.24603874	-0.06046324
## 991	-0.153528234	-0.14625708	2.305705613	-0.24840201	-0.32331505	-0.06046324
## 992	-0.153528234	-0.14625708	-0.202441590	0.89010863	-0.32331505	-0.06046324
## 993	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 994	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 995	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 996	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.95410012	-0.06046324
## 997	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 998	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 999	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1000	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1001	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1002	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1003	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1004	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
## 1005	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324

##	1006	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1007	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1008	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1009	-0.153528234	0.51824252	0.494265966	0.28113782	2.26465673	-0.06046324
##	1010	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1011	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.29053645	-0.06046324
##	1012	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1013	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1014	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1015	3.685144011	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1016	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1017	-0.153528234	-0.14625708	-0.202441590	-0.24840201	0.53071564	-0.06046324
##	1018	-0.153528234	1.94691665	0.894872811	1.41964845	1.30710717	-0.06046324
##	1019	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1020	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1021	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1022	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1023	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1024	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1025	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1026	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1027	1.095850940	-0.14625708	-0.202441590	0.46647676	0.73775338	-0.06046324
##	1028	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1029	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.54002463	-0.06046324
##	1030	-0.153528234	-0.14625708	-0.202441590	-0.24840201	2.70461193	-0.06046324
##	1031	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1032	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1033	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1034	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1035	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1036	-0.153528234	0.75081738	0.267836011	0.46647676	-0.32331505	-0.06046324
##	1037	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1038	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1039	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1040	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1041	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1042	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.

```

## 1060 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1061 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1062 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1063 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1064 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1065 1.186385663 -0.14625708 -0.202441590 -0.24840201 0.09076043 -0.06046324
## 1066 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1067 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1068 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1069 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1070 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1071 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1072 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1073 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1074 -0.153528234 -0.14625708 -0.202441590 1.41964845 -0.32331505 -0.06046324
## 1075 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 1076 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1077 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.19632657 -0.06046324
## 1078 -0.153528234 -0.14625708 2.793400903 -0.24840201 -0.32331505 -0.06046324
## 1079 -0.153528234 4.33911519 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1080 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1081 -0.153528234 -0.14625708 0.964543567 -0.24840201 1.41062604 -0.06046324
## 1082 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1083 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1084 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1085 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1086 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1087 -0.153528234 -0.14625708 -0.202441590 5.25881221 5.05966626 -0.06046324
## 1088 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1089 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1090 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1091 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1092 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1093 0.317252324 -0.14625708 -0.202441590 0.17522986 1.61766378 -0.06046324
## 1094 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1095 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1096 -0.153528234 -0.14625708 0.128494499 -0.24840201 -0.32331505 -0.06046324
## 1097 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1098 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1099 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1100 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 1101 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1102 1.276920386 0.48501754 0.825202056 -0.24840201 -0.32331505 -0.06046324
## 1103 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1104 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1105 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1106 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1107 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1108 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1109 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1110 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1111 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1112 -0.153528234 -0.14625708 0.842619745 1.34021748 2.80813080 -0.06046324
## 1113 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1114 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1115 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1116 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1117 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.09280770 -0.06046324
## 1118 0.462107881 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1119 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.43650576 -0.06046324
## 1120 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.85058124 -0.06046324
## 1121 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1122 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1123 -0.153528234 -0.14625708 0.337506766 -0.24840201 2.08349870 -0.06046324
## 1124 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1125 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1126 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1127 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.27191846 -0.06046324
## 1128 -0.153528234 -0.14625708 3.786209170 -0.24840201 -0.32331505 -0.06046324
## 1129 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1130 4.101603735 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1131 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1132 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1133 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1134 -0.153528234 -0.14625708 2.357958680 -0.24840201 -0.32331505 -0.06046324
## 1135 -0.153528234 2.37884138 -0.202441590 -0.24840201 3.61040206 -0.06046324
## 1136 -0.153528234 -0.14625708 -0.202441590 3.14065290 -0.32331505 -0.06046324
## 1137 -0.153528234 -0.14625708 0.128494499 -0.24840201 -0.32331505 -0.06046324
## 1138 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1139 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1140 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1141 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1142 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1143 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1144 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1145 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1146 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1147 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1148 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.28327472 -0.06046324
## 1149 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.53276290 -0.06046324
## 1150 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 2.72192096
## 1151 -0.153528234 -0.14625708 0.076241433 -0.24840201 -0.32331505 -0.06046324
## 1152 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 1153 -0.153528234 -0.14625708 0.198165255 -0.24840201 0.27191846 -0.06046324
## 1154 -0.153528234 -0.14625708 0.302671388 0.51943075 1.17770858 -0.06046324
## 1155 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.07418971 -0.06046324
## 1156 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1157 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1158 -0.153528234 -0.14625708 -0.202441590 2.95531396 0.06488071 -0.06046324
## 1159 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1160 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1161 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1162 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1163 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1164 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1165 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1166 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1167 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1168 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1169 -0.153528234 9.92091178 5.075118150 7.77412640 -0.32331505 -0.06046324
## 1170 -0.153528234 -0.14625708 -0.202441590 2.16100421 -0.32331505 -0.06046324
## 1171 -0.153528234 -0.14625708 0.703278233 -0.24840201 -0.32331505 -0.06046324
## 1172 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1173 -0.153528234 1.44854195 1.469656545 2.29338917 -0.32331505 -0.06046324
## 1174 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1175 -0.153528234 -0.14625708 4.482916727 -0.24840201 -0.32331505 -0.06046324
## 1176 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1177 -0.153528234 2.37884138 1.121302767 1.76384934 -0.32331505 -0.06046324
## 1178 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1179 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.29779817 -0.06046324
## 1180 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.29984544 -0.06046324
## 1181 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1182 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1183 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1184 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.32331505 -0.06046324
## 1185 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1186 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1187 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1188 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1189 -0.153528234 -0.14625708 -0.202441590 3.35246883 -0.32331505 -0.06046324
## 1190 0.081862045 -0.14625708 -0.202441590 1.18135553 0.37543733 -0.06046324
## 1191 -0.153528234 -0.14625708 -0.202441590 0.17522986 -0.32331505 -0.06046324
## 1192 -0.153528234 -0.14625708 -0.202441590 -0.24840201 7.28532199 -0.06046324
## 1193 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1194 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.01312128 -0.06046324
## 1195 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1196 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1197 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.53071564 -0.06046324
## 1198 0.444000936 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1199 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.29053645 -0.06046324
## 1200 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1201 -0.153528234 -0.14625708 0.215582944 -0.24840201 1.59178407 -0.06046324
## 1202 -0.153528234 1.44854195 1.469656545 2.29338917 -0.32331505 -0.06046324
## 1203 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1204 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1205 -0.008672677 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1206 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1207 -0.153528234 -0.14625708 2.392794058 1.71089536 0.63423451 -0.06046324
## 1208 0.534535659 -0.14625708 -0.202441590 -0.24840201 -0.09039759 -0.06046324
## 1209 1.476096776 -0.14625708 -0.202441590 2.13452722 -0.32331505 -0.06046324
## 1210 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1211 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.37543733 -0.06046324
## 1212 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1213 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1214 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1215 -0.153528234 0.91694228 0.912290500 0.59886172 0.50483592 -0.06046324
## 1216 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1217 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1218 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.33298689 -0.06046324
## 1219 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1220 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1221 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```



```

## 1222 -0.153528234 -0.14625708 1.574162679 -0.24840201 2.31641617 -0.06046324
## 1223 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1224 -0.153528234 -0.14625708 -0.202441590 1.15487854 -0.32331505 -0.06046324
## 1225 4.481849571 -0.14625708 -0.202441590 -0.24840201 2.98928883 -0.06046324
## 1226 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1227 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1228 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1229 -0.153528234 -0.14625708 3.664285348 -0.24840201 -0.32331505 -0.06046324
## 1230 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1231 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1232 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1233 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.47895620 -0.06046324
## 1234 -0.153528234 1.01661721 0.407177522 0.67829269 1.48826519 -0.06046324
## 1235 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1236 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1237 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1238 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1239 -0.153528234 -0.14625708 1.330315034 -0.24840201 -0.32331505 -0.06046324
## 1240 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1241 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1242 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1243 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1244 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1245 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1246 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1247 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1248 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1249 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1250 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1251 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1252 -0.153528234 1.31564203 1.330315034 0.91658562 -0.32331505 -0.06046324
## 1253 -0.153528234 1.98014163 0.912290500 1.44612545 2.18701758 -0.06046324
## 1254 -0.153528234 -0.14625708 0.685860544 -0.24840201 0.99655056 -0.06046324
## 1255 -0.099207400 -0.14625708 -0.202441590 -0.24840201 -0.32331505 0.09411366
## 1256 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1257 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1258 -0.153528234 2.27916644 1.069049700 1.68441837 1.56590435 -0.06046324
## 1259 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1260 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1261 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1262 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1263 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1264 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1265 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1266 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1267 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1268 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1269 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1270 -0.153528234 2.11304155 0.981961256 1.55203341 1.43650576 -0.06046324
## 1271 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1272 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1273 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1274 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1275 0.045648156 -0.14625708 -0.202441590 2.08157324 0.81539253 -0.06046324

```

```

## 1276 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1277 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1278 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1279 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1280 2.001198168 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1281 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1282 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1283 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.54933363 -0.06046324
## 1284 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1285 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1286 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1287 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1288 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1289 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1290 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.30710717 -0.06046324
## 1291 -0.153528234 -0.14625708 0.076241433 -0.24840201 -0.32331505 -0.06046324
## 1292 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1293 -0.153528234 -0.14625708 -0.202441590 0.59886172 1.33298689 -0.06046324
## 1294 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1295 0.281038435 0.65114244 0.215582944 0.38704579 0.29779817 -0.06046324
## 1296 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1297 6.600362083 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1298 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1299 1.331241219 -0.14625708 -0.202441590 -0.24840201 1.30710717 -0.06046324
## 1300 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1301 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 2.25819026
## 1302 -0.153528234 -0.14625708 -0.202441590 2.47872811 -0.32331505 -0.06046324
## 1303 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1304 -0.153528234 3.17624090 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1305 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1306 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1307 0.896674550 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1308 0.226717602 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1309 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1310 1.367455108 -0.14625708 -0.202441590 0.99601659 -0.09039759 0.40326746
## 1311 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1312 -0.153528234 -0.14625708 1.992187213 3.08769891 -0.32331505 -0.06046324
## 1313 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1314 0.299145380 -0.14625708 -0.202441590 -0.24840201 -0.11627731 -0.06046324
## 1315 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1316 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1317 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1318 -0.153528234 -0.14625708 0.563936722 -0.24840201 -0.32331505 -0.06046324
## 1319 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1320 -0.153528234 -0.14625708 -0.202441590 0.22818384 -0.32331505 -0.06046324
## 1321 5.025057907 -0.14625708 -0.202441590 0.75772367 0.16839959 -0.06046324
## 1322 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1323 -0.153528234 -0.14625708 -0.202441590 1.92271129 -0.32331505 -0.06046324
## 1324 0.950995384 -0.14625708 -0.202441590 -0.03658607 -0.11627731 -0.06046324
## 1325 -0.153528234 -0.14625708 0.738113611 -0.24840201 -0.32331505 -0.06046324
## 1326 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1327 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1328 -0.153528234 -0.14625708 -0.202441590 -0.24840201 10.90848248 -0.06046324
## 1329 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1330 -0.153528234 -0.14625708 1.034214323 -0.24840201 0.58247507 -0.06046324
## 1331 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1332 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1333 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1334 0.444000936 0.95016726 0.372342144 0.62533871 0.53071564 -0.06046324
## 1335 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.11664015 -0.06046324
## 1336 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1337 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1338 -0.153528234 -0.14625708 3.350766948 5.15290425 -0.32331505 -0.06046324
## 1339 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.80813080 -0.06046324
## 1340 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1341 -0.153528234 -0.14625708 -0.202441590 0.41352278 -0.11627731 -0.06046324
## 1342 -0.153528234 -0.14625708 0.250418322 0.43999977 0.34955761 -0.06046324
## 1343 -0.153528234 -0.14625708 0.372342144 -0.24840201 -0.32331505 -0.06046324
## 1344 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1345 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1346 -0.153528234 1.84724171 -0.202441590 -0.24840201 1.22946802 -0.06046324
## 1347 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1348 -0.153528234 -0.14625708 -0.202441590 2.05509625 -0.32331505 -0.06046324
## 1349 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1350 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1351 0.480214825 -0.14625708 -0.202441590 -0.24840201 0.58247507 -0.06046324
## 1352 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1353 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1354 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1355 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.32331505 -0.06046324
## 1356 -0.153528234 -0.14625708 1.347732723 2.10805023 -0.32331505 -0.06046324
## 1357 0.118075934 -0.14625708 -0.202441590 0.14875287 0.06488071 -0.06046324
## 1358 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1359 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1360 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1361 1.530417609 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1362 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1363 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.43378013
## 1364 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1365 -0.153528234 -0.14625708 -0.202441590 2.50520510 -0.32331505 -0.06046324
## 1366 -0.153528234 -0.14625708 -0.202441590 2.02861926 -0.32331505 -0.06046324
## 1367 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1368 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 7.97753556
## 1369 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1370 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1371 -0.153528234 -0.14625708 0.842619745 -0.24840201 -0.32331505 -0.06046324
## 1372 -0.153528234 -0.14625708 -0.202441590 4.96756531 -0.32331505 -0.06046324
## 1373 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1374 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1375 0.697498160 -0.14625708 -0.202441590 -0.24840201 1.87646096 -0.06046324
## 1376 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1377 -0.153528234 -0.14625708 -0.202441590 -0.01010908 -0.09039759 -0.06046324
## 1378 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.35160488 -0.06046324
## 1379 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1380 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1381 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1382 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1383 -0.153528234 1.28241705 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1384 -0.153528234 -0.14625708 3.542361526 -0.24840201 -0.32331505 -0.06046324
## 1385 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1386 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.34955761 -0.06046324
## 1387 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1388 0.226717602 -0.14625708 0.163329877 -0.24840201 0.22015902 -0.06046324
## 1389 -0.153528234 -0.14625708 0.302671388 -0.24840201 -0.32331505 -0.06046324
## 1390 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1391 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1392 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1393 -0.153528234 -0.14625708 2.845653969 -0.24840201 -0.32331505 -0.06046324
## 1394 -0.153528234 -0.14625708 -0.202441590 0.57238473 0.47895620 -0.06046324
## 1395 1.023423162 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1396 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.06488071 -0.06046324
## 1397 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1398 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1399 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1400 5.821763467 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1401 1.222599552 -0.14625708 -0.202441590 -0.24840201 0.50483592 -0.06046324
## 1402 1.095850940 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1403 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1404 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1405 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1406 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1407 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 33.17357026
## 1408 -0.153528234 -0.14625708 -0.202441590 0.25466083 0.66011422 -0.06046324
## 1409 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1410 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1411 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1412 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1413 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1414 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1415 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1416 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1417 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1418 -0.153528234 -0.14625708 -0.202441590 2.53168209 -0.32331505 -0.06046324
## 1419 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1420 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1421 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1422 9.533687100 -0.14625708 -0.202441590 0.30761481 -0.32331505 -0.06046324
## 1423 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1424 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1425 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1426 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1427 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1428 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1429 -0.153528234 -0.14625708 0.163329877 -0.24840201 0.37543733 -0.06046324
## 1430 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1431 0.842353716 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1432 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1433 -0.153528234 -0.14625708 1.208391212 -0.24840201 -0.32331505 -0.06046324
## 1434 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1435 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.29984544 -0.06046324
## 1436 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1437 -0.008672677 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

##	1438	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1439	-0.153528234	2.37884138	1.121302767	1.76384934	-0.32331505	-0.06046324
##	1440	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1441	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1442	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1443	-0.153528234	-0.14625708	0.563936722	-0.24840201	-0.32331505	-0.06046324
##	1444	-0.153528234	-0.14625708	0.563936722	-0.24840201	-0.32331505	-0.06046324
##	1445	3.648930121	-0.14625708	-0.202441590	-0.24840201	-0.32331505	7.35922796
##	1446	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1447	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1448	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1449	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1450	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1451	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1452	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1453	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1454	-0.153528234	2.37884138	1.121302767	1.76384934	1.64354350	-0.06046324
##	1455	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1456	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1457	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1458	-0.153528234	-0.14625708	-0.028264701	0.14875287	0.22015902	-0.06046324
##	1459	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1460	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1461	-0.153528234	-0.14625708	0.041406055	-0.24840201	-0.32331505	-0.06046324
##	1462	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1463	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1464	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1465	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1466	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1467	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1468	0.733712049	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1469	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1470	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1471	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1472	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1473	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1474	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.

```

## 1492 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1493 4.155924569 -0.14625708 3.942968371 -0.24840201 -0.32331505 -0.06046324
## 1494 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1495 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1496 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.29053645 -0.06046324
## 1497 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1498 -0.153528234 -0.14625708 -0.202441590 1.41964845 -0.32331505 -0.06046324
## 1499 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1500 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1501 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1502 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1503 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1504 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1505 -0.153528234 1.94691665 0.894872811 1.41964845 2.13525814 -0.06046324
## 1506 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1507 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1508 -0.153528234 -0.14625708 -0.202441590 -0.24840201 2.31641617 -0.06046324
## 1509 1.095850940 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1510 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1511 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1512 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1513 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1514 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1515 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.69735021 -0.06046324
## 1516 -0.153528234 2.67786620 1.278061967 2.00214227 1.87646096 -0.06046324
## 1517 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1518 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1519 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1520 13.245610732 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1521 -0.153528234 -0.14625708 -0.202441590 0.57238473 -0.32331505 -0.06046324
## 1522 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1523 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1524 -0.153528234 -0.14625708 2.410211747 -0.24840201 -0.32331505 -0.06046324
## 1525 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1526 -0.153528234 -0.14625708 -0.202441590 -0.24840201 4.12799641 -0.06046324
## 1527 -0.153528234 -0.14625708 -0.045682390 -0.24840201 -0.32331505 -0.06046324
## 1528 -0.153528234 1.38209199 0.598772100 0.96953960 0.86715197 -0.06046324
## 1529 0.480214825 -0.14625708 -0.202441590 -0.24840201 0.58247507 -0.06046324
## 1530 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1531 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1532 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1533 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1534 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1535 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1536 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1537 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1538 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1539 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1540 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1541 -0.153528234 -0.14625708 -0.202441590 1.10192456 -0.32331505 -0.06046324
## 1542 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 2.25819026
## 1543 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1544 0.335359269 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1545 -0.153528234 -0.14625708 1.103885078 -0.24840201 -0.32331505 -0.06046324

```

##	1546	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1547	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1548	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1549	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1550	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1551	-0.153528234	-0.14625708	-0.202441590	2.00214227	-0.32331505	-0.06046324
##	1552	1.476096776	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1553	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1554	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1555	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1556	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1557	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1558	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1559	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1560	-0.153528234	-0.14625708	-0.202441590	-0.24840201	1.35886661	-0.06046324
##	1561	-0.153528234	-0.14625708	-0.202441590	2.74349803	-0.32331505	-0.06046324
##	1562	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1563	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1564	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1565	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1566	-0.153528234	-0.14625708	-0.202441590	2.95531396	-0.32331505	-0.06046324
##	1567	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1568	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1569	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1570	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1571	-0.153528234	-0.14625708	0.372342144	-0.24840201	-0.32331505	-0.06046324
##	1572	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1573	-0.117314345	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1574	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1575	-0.153528234	-0.14625708	1.347732723	-0.24840201	1.97997983	-0.06046324
##	1576	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1577	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1578	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1579	0.154289824	-0.14625708	-0.202441590	-0.24840201	4.64559077	-0.06046324
##	1580	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1581	0.697498160	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.06046324
##	1582	-0.153528234	-0.14625708	-0.202441590	-0.24840201	-0.32331505	-0.

```

## 1600 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1601 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1602 0.733712049 -0.14625708 -0.202441590 -0.24840201 -0.01275844 -0.06046324
## 1603 -0.153528234 -0.14625708 7.531012286 -0.24840201 -0.32331505 -0.06046324
## 1604 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1605 -0.153528234 1.01661721 -0.202441590 -0.24840201 1.51414491 -0.06046324
## 1606 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.66011422 -0.06046324
## 1607 -0.153528234 -0.14625708 0.285253699 -0.24840201 1.12594915 -0.06046324
## 1608 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1609 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1610 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1611 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1612 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1613 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1614 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1615 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1616 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1617 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1618 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1619 2.381444003 -0.14625708 2.236034857 -0.24840201 -0.32331505 -0.06046324
## 1620 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1621 -0.153528234 -0.14625708 -0.080517768 -0.24840201 -0.32331505 -0.06046324
## 1622 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1623 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1624 -0.153528234 -0.14625708 -0.028264701 -0.24840201 -0.32331505 -0.06046324
## 1625 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1626 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1627 -0.153528234 -0.14625708 -0.202441590 -0.24840201 9.25218054 -0.06046324
## 1628 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1629 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1630 -0.153528234 -0.14625708 0.825202056 -0.24840201 1.20358830 -0.06046324
## 1631 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1632 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.42719676 -0.06046324
## 1633 -0.153528234 -0.14625708 -0.202441590 1.97566527 -0.32331505 -0.06046324
## 1634 -0.153528234 -0.14625708 -0.202441590 5.15290425 -0.32331505 -0.06046324
## 1635 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1636 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1637 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1638 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1639 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1640 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1641 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1642 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1643 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1644 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1645 -0.153528234 -0.14625708 -0.202441590 0.67829269 -0.11627731 -0.06046324
## 1646 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1647 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1648 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1649 -0.153528234 -0.14625708 -0.202441590 -0.24840201 1.77294209 -0.06046324
## 1650 -0.153528234 2.51174130 1.190973523 1.86975731 1.74706237 -0.06046324
## 1651 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1652 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1653 -0.153528234 -0.14625708 0.668442855 -0.24840201 -0.32331505 -0.06046324

```



```

## 1654 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1655 -0.153528234 -0.14625708 0.023988366 -0.24840201 -0.32331505 -0.06046324
## 1656 0.389680103 -0.14625708 -0.202441590 -0.24840201 -0.06451787 -0.06046324
## 1657 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1658 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1659 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1660 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1661 -0.153528234 -0.14625708 -0.202441590 -0.24840201 3.63628177 -0.06046324
## 1662 -0.153528234 1.88046669 0.860037434 1.36669447 -0.32331505 -0.06046324
## 1663 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1664 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1665 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1666 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1667 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.11664015 -0.06046324
## 1668 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1669 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1670 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1671 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1672 -0.153528234 -0.14625708 2.497300191 1.79032633 -0.32331505 -0.06046324
## 1673 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1674 -0.153528234 -0.14625708 -0.202441590 -0.24840201 5.42198230 -0.06046324
## 1675 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1676 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1677 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1678 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1679 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1680 0.208610657 -0.14625708 0.145912188 -0.24840201 0.19427930 -0.06046324
## 1681 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1682 -0.153528234 -0.14625708 -0.202441590 -0.24840201 0.76363310 -0.06046324
## 1683 -0.153528234 -0.14625708 2.950160103 -0.24840201 -0.32331505 -0.06046324
## 1684 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1685 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1686 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1687 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1688 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1689 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1690 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1691 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1692 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 1.17615196
## 1693 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1694 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1695 -0.153528234 -0.14625708 -0.202441590 0.57238473 0.47895620 -0.06046324
## 1696 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1697 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1698 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1699 -0.153528234 1.68111681 0.755531300 1.20783252 1.10006943 -0.06046324
## 1700 -0.153528234 -0.14625708 -0.202441590 0.06932189 -0.32331505 -0.06046324
## 1701 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1702 -0.153528234 -0.14625708 -0.202441590 1.18135553 -0.32331505 -0.06046324
## 1703 -0.153528234 -0.14625708 -0.202441590 0.57238473 -0.32331505 -0.06046324
## 1704 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1705 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1706 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1707 -0.153528234 0.08631778 -0.202441590 -0.24840201 -0.32331505 -0.06046324

```

```

## 1708 -0.062993511 -0.14625708 0.372342144 -0.11601705 0.53071564 -0.06046324
## 1709 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1710 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1711 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1712 -0.153528234 1.14951713 0.476848277 3.88200866 0.68599394 -0.06046324
## 1713 -0.153528234 -0.14625708 0.267836011 -0.24840201 -0.32331505 -0.06046324
## 1714 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1715 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1716 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1717 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1718 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1719 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1720 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1721 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1722 -0.153528234 -0.14625708 -0.202441590 -0.24840201 -0.32331505 -0.06046324
## 1723 -0.153528234 1.51499191 0.668442855 1.07544757 0.97067084 -0.06046324
## 1724 4.481849571 -0.14625708 -0.202441590 -0.24840201 2.98928883 -0.06046324
##          V39          V40          V41          V42          V43
## 1  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 2  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 3  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 4  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 5  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 6  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 7  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 8  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 9  -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 10 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 11 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 12 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 13 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 14 0.91081118 0.83724150 -0.12851656 -0.1662754768 1.5850977116
## 15 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 16 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 17 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 18 -0.19805329 -0.19138696 -0.12851656 4.4389848222 -0.2111120988
## 19 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 20 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 21 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 22 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 23 -0.19805329 -0.19138696 -0.12851656 4.1070741700 -0.2111120988
## 24 0.45421993 0.41368861 -0.12851656 -0.1662754768 0.8454819073
## 25 -0.19805329 -0.19138696 -0.12851656 0.4975458275 -0.2111120988
## 26 0.03024234 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 27 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 28 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 29 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 30 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 31 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 32 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 33 0.22592430 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 34 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 35 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 36 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

## 37	6.06376959	-0.19138696	4.60703035	-0.1662754768	9.9321903599
## 38	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 39	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 40	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 41	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 42	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 43	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 44	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 45	-0.19805329	0.23216594	-0.12851656	-0.1662754768	-0.2111120988
## 46	-0.19805329	1.86586997	-0.12851656	-0.1662754768	3.3813075220
## 47	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 48	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 49	2.15013029	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 50	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 51	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 52	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 53	-0.19805329	0.23216594	-0.12851656	-0.1662754768	-0.2111120988
## 54	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 55	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 56	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 57	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 58	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 59	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 60	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 61	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 62	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 63	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 64	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 65	-0.19805329	12.93875286	-0.12851656	-0.1662754768	-0.2111120988
## 66	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	1.5850977116
## 67	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 68	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 69	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 70	-0.19805329	-0.19138696	6.03756014	1.5624258366	6.3926004394
## 71	0.84558386	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 72	-0.19805329	1.13977929	-0.12851656	-0.1662754768	-0.2111120988
## 73	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 74	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 75	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 76	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.1058661031
## 77	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	4.2794124272
## 78	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 79	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 80	-0.19805329	1.32130196	-0.12851656	-0.1662754768	-0.2111120988
## 81	-0.19805329	-0.19138696	1.35134185	-0.1662754768	-0.2111120988
## 82	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 83	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 84	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 85	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 86	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 87	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 88	2.37842592	0.98851040	-0.12851656	-0.1662754768	1.8492462131
## 89	-0.19805329	0.02038949	-0.12851656	-0.1662754768	0.1586958034
## 90	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988

## 91	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 92	-0.19805329	-0.19138696	-0.12851656	3.1943198765	-0.2111120988
## 93	-0.19805329	-0.19138696	-0.12851656	13.6633350308	-0.2111120988
## 94	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 95	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 96	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 97	-0.19805329	-0.19138696	17.48179851	-0.1662754768	-0.2111120988
## 98	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 99	-0.19805329	1.10952551	-0.12851656	-0.1662754768	-0.2111120988
## 100	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 101	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 102	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 103	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 104	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 105	-0.19805329	-0.19138696	-0.12851656	2.4336912986	-0.2111120988
## 106	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 107	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 108	1.66092538	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 109	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 110	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 111	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 112	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 113	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 114	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 115	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 116	-0.19805329	-0.19138696	0.36476958	-0.1662754768	-0.2111120988
## 117	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 118	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 119	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 120	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 121	4.72660949	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 122	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 123	-0.19805329	-0.19138696	-0.12851656	2.0464622044	-0.2111120988
## 124	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 125	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 126	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 127	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 128	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 129	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 130	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 131	-0.19805329	1.32130196	-0.12851656	-0.1662754768	-0.2111120988
## 132	1.56308440	-0.19138696	-0.12851656	3.5677193602	-0.2111120988
## 133	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 134	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 135	0.81297020	-0.19138696	-0.12851656	-0.1662754768	1.4266086107
## 136	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 137	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 138	-0.19805329	-0.19138696	-0.12851656	1.6454034997	-0.2111120988
## 139	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 140	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 141	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 142	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 143	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 144	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988

```

## 145 -0.19805329 -0.07037185 -0.12851656 -0.1662754768 -0.2111120988
## 146 0.84558386 0.77673395 -0.12851656 -0.1662754768 3.1699887208
## 147 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 148 0.42160627 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 149 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 150 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 151 -0.19805329 -0.07037185 -0.12851656 -0.1662754768 -0.2111120988
## 152 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 153 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 154 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 155 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 156 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 157 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 158 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 159 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 160 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 161 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.2115255037
## 162 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 163 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 164 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 165 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 166 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 167 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 168 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 169 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 170 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 171 0.35637895 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 172 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 173 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 174 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 175 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 176 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 177 -0.19805329 -0.19138696 -0.12851656 0.7741380377 -0.2111120988
## 178 1.20433413 -0.19138696 -0.12851656 -0.1662754768 2.0605650144
## 179 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 180 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 181 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 182 4.59615485 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 183 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 184 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 185 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 186 -0.19805329 -0.19138696 -0.12851656 3.0421941609 -0.2111120988
## 187 1.59569806 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 188 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 189 -0.19805329 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 190 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 191 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 192 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 193 -0.19805329 -0.19138696 6.85148227 -0.1662754768 -0.2111120988
## 194 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 195 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 196 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 197 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 198 -0.19805329 -0.19138696 -0.12851656 -0.0003201507 -0.2111120988

```

```

## 199 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.7435868125
## 200 -0.19805329 -0.19138696 0.90738433 -0.1662754768 -0.2111120988
## 201 3.12854012 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 202 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 203 -0.19805329 -0.19138696 -0.12851656 1.2858336265 -0.2111120988
## 204 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 205 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 206 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 207 -0.19805329 6.82748963 -0.12851656 -0.1662754768 -0.2111120988
## 208 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 209 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 210 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 211 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 212 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 213 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 214 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 215 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 216 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 217 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 218 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 219 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 220 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 221 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 222 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 223 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 224 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 225 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 226 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 227 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 228 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 229 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 230 0.16069698 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 231 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 232 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 233 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 234 -0.19805329 0.11115082 -0.12851656 -0.1662754768 -0.2111120988
## 235 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 236 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.1624601092
## 237 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 238 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 239 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 240 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 241 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 242 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 243 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 244 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 245 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 246 12.84741104 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 247 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 248 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 249 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 250 11.31456898 -0.19138696 -0.12851656 1.0507302478 -0.2111120988
## 251 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 252 0.91081118 -0.19138696 0.71006987 -0.1662754768 -0.2111120988

```

```

## 253 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 254 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 255 -0.19805329 -0.19138696 -0.12851656 0.2762720594 -0.2111120988
## 256 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 257 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 258 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 259 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 260 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 261 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 262 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 263 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 264 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 265 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 266 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 267 -0.19805329 0.02038949 -0.12851656 -0.1662754768 0.1586958034
## 268 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 269 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 270 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 271 0.68251555 0.62546506 -0.12851656 -0.1662754768 1.2152898095
## 272 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 273 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 274 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 275 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 276 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 9.2982339562
## 277 -0.19805329 0.56495750 -0.12851656 -0.1662754768 -0.2111120988
## 278 -0.19805329 -0.19138696 0.48809111 -0.1662754768 -0.2111120988
## 279 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 280 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 281 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 282 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 283 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 284 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 285 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 286 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 287 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 288 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 289 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 290 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 291 -0.19805329 7.76535676 -0.12851656 -0.1662754768 -0.2111120988
## 292 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 293 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 294 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 295 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 296 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 297 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 298 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 299 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 300 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 301 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 302 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 303 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 304 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 305 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 306 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 307 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 308 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 309 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 310 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 311 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 312 1.36740243 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 313 2.34581226 0.98851040 -0.12851656 2.5443281826 3.9096045251
## 314 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 315 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 316 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 317 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 318 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 319 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 320 2.67194886 2.47094554 -0.12851656 -0.1662754768 4.4379015281
## 321 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 322 -0.19805329 -0.19138696 -0.12851656 1.1751967424 -0.2111120988
## 323 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 324 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064
## 325 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 326 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 327 -0.19805329 0.86749528 -0.12851656 -0.1662754768 1.6379274119
## 328 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 329 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 330 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 331 -0.19805329 1.56333219 -0.12851656 -0.1662754768 -0.2111120988
## 332 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 333 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 334 -0.19805329 2.59196065 -0.12851656 1.7422107732 -0.2111120988
## 335 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 3.0114996199
## 336 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 337 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 338 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 339 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 340 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 341 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 342 -0.19805329 0.17165838 -0.12851656 -0.1662754768 -0.2111120988
## 343 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 344 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 345 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 346 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 347 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 348 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 349 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 350 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 351 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 352 2.54149422 -0.19138696 -0.12851656 -0.1662754768 4.2265827269
## 353 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 354 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 355 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 356 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 357 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 358 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 359 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 360 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 361 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 362 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 363 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 364 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 365 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 366 5.31365539 -0.19138696 -0.12851656 -0.1662754768 8.7171072528
## 367 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 368 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 369 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 370 -0.19805329 -0.19138696 -0.12851656 1.6730627207 -0.2111120988
## 371 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 372 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 373 3.45467672 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 374 -0.19805329 -0.19138696 -0.12851656 0.3592497224 -0.2111120988
## 375 -0.19805329 -0.19138696 -0.12851656 1.6868923312 -0.2111120988
## 376 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 377 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 378 -0.19805329 -0.19138696 -0.12851656 2.6273058457 -0.2111120988
## 379 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 380 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 381 -0.19805329 -0.19138696 -0.12851656 2.9038980558 -0.2111120988
## 382 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 383 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 384 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 385 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 386 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 387 -0.19805329 -0.19138696 -0.12851656 0.4975458275 -0.2111120988
## 388 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 389 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 390 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 391 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 392 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 393 -0.19805329 1.23054062 -0.12851656 -0.1662754768 -0.2111120988
## 394 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 395 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 396 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 397 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 398 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 399 -0.19805329 1.23054062 -0.12851656 -0.0418089823 -0.2111120988
## 400 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 401 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 402 -0.19805329 -0.04011807 0.34010527 -0.1524458663 -0.0526229979
## 403 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 404 1.33478877 0.26241972 -0.12851656 -0.1662754768 1.4266086107
## 405 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 406 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 407 -0.19805329 -0.19138696 -0.12851656 1.1613671319 -0.2111120988
## 408 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 409 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 410 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 411 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 412 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 413 -0.19805329 -0.19138696 1.35134185 -0.1662754768 -0.2111120988
## 414 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 415 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 416 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 417 -0.19805329 -0.19138696 -0.12851656 1.8113588257 -0.2111120988
## 418 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 419 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 420 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 421 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 422 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 423 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 424 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 425 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 426 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 427 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 428 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 429 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 430 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 431 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 432 2.34581226 0.98851040 -0.12851656 2.5443281826 3.9096045251
## 433 -0.19805329 -0.19138696 0.83339141 -0.1662754768 -0.2111120988
## 434 -0.19805329 -0.19138696 -0.12851656 4.4389848222 -0.2111120988
## 435 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 436 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 437 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 438 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 439 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 440 -0.19805329 1.77510863 -0.12851656 -0.1662754768 -0.2111120988
## 441 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 442 2.54149422 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 443 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 444 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 445 -0.19805329 -0.19138696 -0.12851656 0.2762720594 -0.2111120988
## 446 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 447 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 448 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 449 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 450 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 451 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 452 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 453 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 454 -0.19805329 0.62546506 -0.12851656 -0.1662754768 -0.2111120988
## 455 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 456 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 457 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 458 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 459 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 460 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 461 5.93331494 -0.19138696 -0.12851656 -0.1662754768 9.7208715587
## 462 -0.16543963 0.14140460 0.19211943 -0.1524458663 -0.2111120988
## 463 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 464 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 465 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 466 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 467 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.4228443049
## 468 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 469 -0.19805329 -0.19138696 -0.12851656 1.2166855739 -0.2111120988
## 470 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 471 1.49785707 1.38180952 -0.12851656 -0.1662754768 -0.2111120988
## 472 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 473 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 474 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 475 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 476 -0.19805329 -0.10062563 -0.12851656 -0.1247866453 -0.0526229979
## 477 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 478 0.48683359 0.44394239 -0.12851656 -0.1662754768 2.0077353141
## 479 11.86900121 -0.19138696 -0.12851656 4.9506804110 -0.2111120988
## 480 -0.19805329 1.10952551 -0.12851656 -0.1662754768 -0.2111120988
## 481 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 482 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 483 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 484 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 485 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 486 -0.19805329 0.05064327 -0.12851656 -0.1662754768 -0.2111120988
## 487 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 488 0.87819752 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 489 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 490 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 491 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 492 -0.19805329 -0.19138696 6.77748935 -0.1662754768 -0.2111120988
## 493 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 494 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 495 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 496 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 497 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 498 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 499 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 500 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 501 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 502 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 503 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 504 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 505 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 506 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 507 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 508 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 509 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 510 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 511 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 512 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 513 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 514 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 515 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 516 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 517 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 518 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 519 -0.19805329 -0.19138696 -0.12851656 -0.1386162558 -0.2111120988
## 520 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 521 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 522 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073

```

236

```

## 577 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 578 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 579 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 580 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 581 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 582 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 583 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 584 2.34581226 2.16840775 -0.12851656 -0.1662754768 -0.2111120988
## 585 -0.19805329 -0.19138696 -0.12851656 -0.0141497613 -0.2111120988
## 586 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 587 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 588 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 589 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 590 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 591 -0.19805329 14.20941155 -0.12851656 -0.1662754768 -0.2111120988
## 592 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 593 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 594 -0.19805329 -0.19138696 -0.12851656 2.3230544145 -0.2111120988
## 595 5.44411003 2.41043798 -0.12851656 -0.1662754768 8.9284260541
## 596 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 597 1.69353904 -0.19138696 -0.12851656 0.6358419326 -0.2111120988
## 598 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 599 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 600 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 601 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 602 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 603 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 604 -0.19805329 -0.19138696 -0.12851656 4.7708954744 -0.2111120988
## 605 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 606 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 607 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 608 1.49785707 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 609 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 610 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 611 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 612 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 613 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 614 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 615 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 616 1.82399368 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 617 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 618 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 619 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 620 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 621 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 622 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 623 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 624 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 625 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 626 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 627 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 628 -0.19805329 6.19216028 -0.12851656 -0.1662754768 -0.2111120988
## 629 1.88922100 -0.19138696 -0.12851656 -0.1662754768 3.1699887208
## 630 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 631 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 632 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 633 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 634 -0.19805329 0.44394239 -0.12851656 -0.1662754768 -0.2111120988
## 635 -0.19805329 -0.19138696 -0.12851656 0.1794647859 -0.2111120988
## 636 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 637 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 638 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 639 -0.19805329 -0.19138696 1.37600616 -0.1662754768 -0.2111120988
## 640 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 641 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 642 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 643 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 644 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 645 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 646 0.91081118 1.86586997 -0.12851656 -0.1662754768 3.3813075220
## 647 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 648 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 649 -0.19805329 -0.19138696 -0.12851656 3.1943198765 -0.2111120988
## 650 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 651 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 652 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 653 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 654 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 655 0.84558386 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 656 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 657 -0.19805329 -0.19138696 -0.12851656 1.0922190794 -0.2111120988
## 658 0.16069698 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 659 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 660 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 661 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 662 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 663 -0.19805329 1.23054062 -0.12851656 -0.1662754768 -0.2111120988
## 664 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 665 -0.19805329 -0.19138696 2.36257843 -0.1662754768 1.5322680113
## 666 -0.19805329 2.53145309 -0.12851656 -0.1662754768 -0.2111120988
## 667 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 668 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 669 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 670 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 671 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 672 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 673 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 674 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 675 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 676 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 677 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 678 -0.19805329 0.32292727 -0.12851656 -0.1662754768 -0.2111120988
## 679 0.16069698 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 680 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 681 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 682 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 683 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 684 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 685 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 686 0.81297020 -0.19138696 -0.12851656 1.1337079109 -0.2111120988
## 687 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 688 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 689 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 690 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 691 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 692 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 693 0.87819752 -0.19138696 3.15183625 -0.1662754768 -0.2111120988
## 694 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 695 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 696 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 697 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 698 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 699 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.6907571122
## 700 -0.19805329 -0.19138696 -0.12851656 1.2996632370 -0.2111120988
## 701 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 702 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 703 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 704 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 705 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 706 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 707 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 708 -0.19805329 -0.19138696 1.12936309 -0.1662754768 -0.2111120988
## 709 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 710 0.91081118 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 711 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 712 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 713 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 714 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 715 1.72615270 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 716 -0.19805329 12.39418485 -0.12851656 -0.1662754768 -0.2111120988
## 717 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 718 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 719 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 720 -0.19805329 -0.19138696 -0.12851656 1.5347666156 -0.2111120988
## 721 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 722 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 723 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 724 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 725 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 726 -0.19805329 -0.19138696 1.74597076 -0.1662754768 -0.2111120988
## 727 0.84558386 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 728 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 729 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 730 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 731 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 732 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 733 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 734 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 735 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 736 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 737 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 738 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 739 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 740 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 741 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 742 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 743 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 744 -0.19805329 -0.19138696 3.76844392 -0.1662754768 -0.2111120988
## 745 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 746 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 747 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 748 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 749 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 750 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 751 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 752 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 753 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 754 -0.19805329 -0.19138696 -0.12851656 0.4422273855 -0.2111120988
## 755 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 756 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 757 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 758 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 759 3.87865431 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 760 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 761 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 762 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 763 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 764 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 765 0.84558386 0.77673395 -0.12851656 -0.1662754768 3.1699887208
## 766 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 767 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 768 -0.19805329 -0.19138696 -0.12851656 4.2868591066 5.4416658339
## 769 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 770 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 771 13.36922961 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 772 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 773 1.88922100 -0.19138696 -0.12851656 0.7188195956 -0.2111120988
## 774 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 775 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 776 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 777 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 778 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 779 -0.19805329 -0.19138696 -0.12851656 2.4336912986 -0.2111120988
## 780 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.6869928064
## 781 0.84558386 -0.19138696 -0.12851656 -0.1662754768 1.4794383110
## 782 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 783 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 784 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 785 3.25899476 -0.19138696 -0.12851656 2.7656019508 -0.2111120988
## 786 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 787 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 788 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 789 2.80240351 -0.19138696 -0.12851656 -0.1662754768 4.6492203293
## 790 -0.19805329 0.89774906 -0.12851656 -0.1662754768 -0.2111120988
## 791 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 792 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 793 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 794 0.74774288 -0.19138696 2.73254303 -0.1662754768 -0.2111120988
## 795 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 796 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 797 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 798 2.08490297 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 799 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 800 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 801 -0.19805329 0.53470372 -0.12851656 -0.1662754768 1.0568007086
## 802 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 803 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 804 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 805 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 806 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 807 -0.19805329 -0.19138696 -0.12851656 1.8666772678 -0.2111120988
## 808 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 809 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 810 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 811 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 812 -0.19805329 -0.19138696 -0.12851656 2.0741214254 -0.2111120988
## 813 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 814 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 815 -0.19805329 12.93875286 -0.12851656 -0.1662754768 -0.2111120988
## 816 -0.19805329 12.93875286 -0.12851656 -0.1662754768 -0.2111120988
## 817 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 818 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 819 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 820 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 821 -0.19805329 0.65571883 -0.12851656 0.2209536174 2.7473511183
## 822 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 823 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 824 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 825 -0.19805329 1.35155574 -0.12851656 -0.1662754768 -0.2111120988
## 826 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 827 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 828 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 829 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 830 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 831 -0.19805329 1.44231707 -0.12851656 -0.1662754768 2.6416917177
## 832 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 833 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 834 -0.19805329 1.44231707 -0.12851656 -0.1662754768 -0.2111120988
## 835 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 836 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 837 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 838 0.03024234 -0.19138696 -0.12851656 -0.1662754768 0.1586958034
## 839 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 840 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 841 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 842 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 843 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 844 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 845 0.09546966 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 846 -0.19805329 0.53470372 -0.12851656 -0.1662754768 1.0568007086

```

```

## 847 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 848 1.53047074 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 849 -0.19805329 8.18890965 -0.12851656 -0.1662754768 -0.2111120988
## 850 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.6907571122
## 851 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 852 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 853 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 854 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 855 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 856 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 857 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 858 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 859 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 860 -0.19805329 -0.19138696 12.20363685 -0.1662754768 -0.2111120988
## 861 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.7926522070
## 862 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 863 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 864 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 865 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 866 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 867 3.68297235 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 868 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 869 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 870 -0.19805329 -0.19138696 -0.12851656 0.1794647859 -0.2111120988
## 871 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 872 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 873 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 874 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 875 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 876 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 877 -0.19805329 -0.19138696 0.06879790 -0.1662754768 -0.2111120988
## 878 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 879 -0.19805329 -0.19138696 -0.12851656 2.7656019508 -0.2111120988
## 880 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 881 -0.19805329 2.41043798 -0.12851656 -0.1662754768 4.3322421275
## 882 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 883 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 884 1.56308440 -0.19138696 -0.12851656 3.5677193602 -0.2111120988
## 885 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 886 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 887 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 888 -0.19805329 -0.19138696 -0.12851656 2.1709286989 -0.2111120988
## 889 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 890 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 891 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 892 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 893 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 894 -0.19805329 1.20028685 -0.12851656 -0.1662754768 -0.2111120988
## 895 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.0568007086
## 896 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 897 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 898 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 899 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 900 1.20433413 -0.19138696 -0.12851656 -0.1662754768 2.0605650144

```

## 901	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.7926522070
## 902	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	7.5548538461
## 903	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 904	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 905	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 906	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 907	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 908	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 909	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 910	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 911	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 912	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 913	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 914	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 915	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 916	-0.19805329	-0.19138696	-0.12851656	1.0783894688	-0.2111120988
## 917	2.21535761	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 918	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 919	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 920	2.18274395	2.01713886	-0.12851656	-0.1662754768	3.6454560235
## 921	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 922	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 923	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 924	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 925	-0.19805329	0.47419616	-0.12851656	-0.1662754768	-0.2111120988
## 926	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 927	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 928	-0.19805329	-0.19138696	-0.12851656	-0.0832978138	-0.2111120988
## 929	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 930	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 931	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.7926522070
## 932	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 933	-0.19805329	0.53470372	-0.12851656	-0.1662754768	1.0568007086
## 934	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 935	-0.19805329	0.83724150	-0.12851656	-0.1662754768	-0.2111120988
## 936	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 937	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 938	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 939	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 940	-0.19805329	-0.19138696	-0.12851656	0.8986045322	-0.2111120988
## 941	-0.19805329	1.13977929	-0.12851656	-0.1662754768	-0.2111120988
## 942	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 943	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 944	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 945	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 946	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 947	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 948	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 949	-0.19805329	0.65571883	-0.12851656	-0.1662754768	1.2681195098
## 950	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 951	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 952	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 953	0.81297020	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
## 954	1.53047074	1.41206329	-0.12851656	-0.1662754768	-0.2111120988

##	955	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.2111120988
##	956	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	957	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	958	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	959	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	960	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	961	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	962	5.02013244	-0.19138696	-0.12851656	0.5666938801	5.3888361336
##	963	2.63933520	1.56333219	-0.12851656	1.0369006373	1.3209492101
##	964	-0.19805329	1.35155574	-0.12851656	-0.1662754768	-0.2111120988
##	965	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	966	-0.19805329	-0.00986429	-0.12851656	-0.1662754768	-0.2111120988
##	967	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	968	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	969	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	970	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	971	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	972	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	973	3.58513137	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	974	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	975	-0.19805329	-0.19138696	0.63607695	-0.1662754768	-0.2111120988
##	976	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	977	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	978	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	979	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	980	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	981	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	982	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	983	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	984	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	985	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	986	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	1.7435868125
##	987	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	988	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	989	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	990	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	991	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	992	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	993	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	994	-0.19805329	0.65571883	-0.12851656	-0.1662754768	-0.2111120988
##	995	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	996	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	997	-0.				

##	1009	0.45421993	0.41368861	-0.12851656	-0.1662754768	0.8454819073
##	1010	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1011	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1012	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1013	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1014	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1015	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1016	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1017	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1018	1.85660734	1.71460108	-0.12851656	-0.1662754768	3.1171590201
##	1019	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1020	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1021	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1022	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1023	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1024	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1025	-0.19805329	-0.19138696	-0.12851656	6.6240632824	-0.2111120988
##	1026	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1027	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1028	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1029	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	1.6907571122
##	1030	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	5.9699628370
##	1031	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1032	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1033	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1034	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1035	-0.19805329	-0.19138696	-0.12851656	-0.0141497613	-0.2111120988
##	1036	0.68251555	0.62546506	-0.12851656	-0.1662754768	1.2152898095
##	1037	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1038	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1039	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1040	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1041	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1042	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1043	1.92183467	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1044	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1045	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1046	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1047	-0.19805329	-0.19138696	-0.12851656	1.0783894688	-0.2111120988
##	1048	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1049	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1050	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	

##	1063	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.4756740052
##	1064	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1065	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1066	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1067	-0.19805329	0.29267349	-0.12851656	-0.1662754768	-0.2111120988
##	1068	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1069	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.8454819073
##	1070	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1071	-0.19805329	-0.19138696	3.27515778	-0.1662754768	-0.2111120988
##	1072	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1073	-0.19805329	-0.19138696	-0.12851656	4.3560071591	-0.2111120988
##	1074	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1075	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1076	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1077	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.1058661031
##	1078	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1079	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1080	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1081	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1082	-0.19805329	6.19216028	-0.12851656	-0.1662754768	-0.2111120988
##	1083	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1084	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1085	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1086	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1087	13.36922961	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1088	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1089	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1090	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1091	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1092	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1093	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1094	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1095	0.45421993	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1096	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1097	0.45421993	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1098	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1099	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1100	-0.19805329	-0.19138696	-0.12851656	0.1794647859	-0.2111120988
##	1101	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1102	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1103	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1104	-0.19805329	-0.19138696	-0.12851656	-0.166275476	

```

## 1117 -0.19805329 -0.19138696 4.75501619 -0.1662754768 -0.2111120988
## 1118 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1119 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1120 2.54149422 -0.19138696 -0.12851656 -0.1662754768 4.2265827269
## 1121 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1122 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1123 -0.19805329 -0.19138696 2.16526397 -0.1662754768 1.4266086107
## 1124 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 1125 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1126 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1127 -0.19805329 -0.19138696 -0.12851656 2.4060320776 -0.2111120988
## 1128 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1129 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1130 -0.19805329 -0.19138696 0.51275542 -0.1662754768 -0.2111120988
## 1131 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1132 -0.19805329 -0.19138696 2.18992828 -0.1662754768 -0.2111120988
## 1133 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1134 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1135 2.28058493 -0.19138696 -0.12851656 0.8847749217 3.8039451244
## 1136 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1137 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1138 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1139 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1140 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1141 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1142 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1143 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1144 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1145 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1146 0.61728823 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1147 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1148 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 18.6490909103
## 1149 4.66138217 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1150 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1151 -0.19805329 -0.19138696 -0.12851656 0.0549982913 -0.2111120988
## 1152 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1153 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1154 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1155 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1156 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1157 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1158 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1159 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1160 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1161 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1162 -0.19805329 -0.19138696 -0.12851656 0.2071240069 -0.2111120988
## 1163 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1164 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1165 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1166 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1167 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 1168 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1169 -0.19805329 8.97550789 -0.12851656 -0.1662754768 -0.2111120988
## 1170 2.76978985 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1171 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1172 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1173 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 1174 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1175 -0.19805329 -0.19138696 -0.12851656 0.9954118058 -0.2111120988
## 1176 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1177 2.28058493 2.10790020 -0.12851656 -0.1662754768 -0.2111120988
## 1178 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1179 -0.19805329 -0.19138696 -0.12851656 2.9177276664 -0.2111120988
## 1180 -0.19805329 1.20028685 -0.12851656 -0.1662754768 -0.2111120988
## 1181 -0.19805329 0.56495750 -0.12851656 -0.1662754768 -0.2111120988
## 1182 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1183 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1184 -0.19805329 0.14140460 -0.12851656 -0.1662754768 -0.2111120988
## 1185 -0.19805329 -0.19138696 -0.12851656 5.9740715885 -0.2111120988
## 1186 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1187 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1188 3.74819967 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1189 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1190 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1191 -0.19805329 0.29267349 -0.12851656 -0.1662754768 -0.2111120988
## 1192 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1193 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1194 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1195 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1196 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 1197 1.95444833 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1198 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1199 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1200 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1201 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1202 -0.19805329 1.26079440 -0.12851656 -0.1662754768 -0.2111120988
## 1203 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1204 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1205 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1206 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1207 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.7435868125
## 1208 -0.19805329 1.23054062 -0.12851656 -0.0418089823 -0.2111120988
## 1209 -0.19805329 -0.19138696 -0.12851656 1.0783894688 -0.2111120988
## 1210 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1211 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1212 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1213 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1214 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1215 -0.19805329 0.77673395 -0.12851656 -0.1662754768 1.4794383110
## 1216 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1217 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1218 1.88922100 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1219 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1220 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1221 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1222 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1223 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1224 3.29160842 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```



```

## 1225 -0.19805329 -0.19138696 -0.12851656 5.1442949581 -0.2111120988
## 1226 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 5.9171331367
## 1227 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1228 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1229 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1230 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1231 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1232 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1233 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1234 -0.19805329 0.86749528 -0.12851656 -0.1662754768 3.4869669226
## 1235 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1236 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1237 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1238 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1239 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1240 -0.19805329 0.23216594 -0.12851656 -0.1662754768 -0.2111120988
## 1241 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1242 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 1.0568007086
## 1243 -0.19805329 0.83724150 -0.12851656 -0.1662754768 -0.2111120988
## 1244 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1245 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1246 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1247 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1248 -0.19805329 -0.19138696 -0.12851656 1.6454034997 -0.2111120988
## 1249 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1250 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1251 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1252 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 1253 1.88922100 1.74485486 5.44561678 -0.1662754768 3.1699887208
## 1254 -0.19805329 -0.19138696 1.12936309 -0.1662754768 -0.2111120988
## 1255 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1256 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1257 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1258 -0.19805329 2.01713886 -0.12851656 -0.1662754768 3.6454560235
## 1259 -0.19805329 -0.19138696 0.43876250 -0.1662754768 -0.2111120988
## 1260 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1261 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1262 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1263 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1264 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1265 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1266 -0.19805329 -0.19138696 -0.12851656 15.1984217971 -0.2111120988
## 1267 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.8454819073
## 1268 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1269 -0.19805329 2.04739264 -0.12851656 -0.1662754768 -0.2111120988
## 1270 -0.19805329 1.86586997 -0.12851656 -0.1662754768 3.3813075220
## 1271 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1272 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1273 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1274 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1275 0.16069698 -0.19138696 -0.12851656 -0.1662754768 0.3700146046
## 1276 -0.19805329 1.47257085 -0.12851656 -0.1662754768 -0.2111120988
## 1277 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1278 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064

```

##	1279	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.2111120988
##	1280	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1281	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1282	-0.19805329	1.47257085	-0.12851656	-0.1662754768	2.6945214180
##	1283	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1284	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1285	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1286	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1287	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1288	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1289	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1290	0.81297020	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1291	-0.19805329	-0.19138696	-0.12851656	0.0549982913	-0.2111120988
##	1292	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1293	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1294	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1295	-0.19805329	0.53470372	-0.12851656	-0.1662754768	1.0568007086
##	1296	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1297	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1298	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1299	-0.19805329	-0.00986429	-0.12851656	-0.1662754768	-0.2111120988
##	1300	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1301	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1302	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1303	0.94342484	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1304	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1305	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1306	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1307	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1308	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1309	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1310	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1311	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1312	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1313	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1314	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1315	-0.19805329	0.29267349	-0.12851656	-0.1662754768	-0.2111120988
##	1316	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1317	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1318	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1319	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1320	0.09546966	-0.19138696	-0.12851656	-0.1662754768	

##	1333	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.2111120988
##	1334	0.87819752	0.80698773	-0.12851656	-0.1662754768	1.5322680113
##	1335	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1336	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1337	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1338	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1339	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1340	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1341	-0.19805329	0.05064327	-0.12851656	-0.1662754768	-0.2111120988
##	1342	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	2.536032317
##	1343	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1344	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	1.1624601092
##	1345	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1346	1.75876636	-0.19138696	-0.12851656	-0.1662754768	2.9586699196
##	1347	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1348	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1349	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1350	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	0.1058661031
##	1351	0.94342484	-0.19138696	-0.12851656	-0.1662754768	1.6379274119
##	1352	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1353	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1354	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1355	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1356	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1357	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1358	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1359	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1360	-0.19805329	-0.19138696	0.43876250	-0.1662754768	-0.2111120988
##	1361	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1362	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1363	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1364	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1365	-0.19805329	0.32292727	-0.12851656	-0.1662754768	-0.2111120988
##	1366	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1367	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1368	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1369	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1370	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1371	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1372	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1373	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1374	-0.19805329	-0.19138696	-0.12851656	-0.1662754768</	

```

## 1387 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1388 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1389 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1390 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1391 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1392 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1393 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1394 0.81297020 -0.19138696 -0.12851656 -0.1662754768 1.4266086107
## 1395 4.04172262 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1396 -0.19805329 0.02038949 -0.12851656 -0.1662754768 0.1586958034
## 1397 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1398 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1399 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1400 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1401 -0.19805329 -0.19138696 0.04413359 -0.1662754768 -0.2111120988
## 1402 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1403 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1404 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1405 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1406 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1407 -0.19805329 -0.19138696 -0.12851656 8.7538233006 -0.2111120988
## 1408 0.42160627 -0.19138696 -0.12851656 0.3592497224 -0.2111120988
## 1409 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1410 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1411 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 2.3247135159
## 1412 -0.19805329 -0.19138696 1.00604155 -0.1662754768 -0.2111120988
## 1413 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1414 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1415 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1416 -0.19805329 1.13977929 -0.12851656 -0.1662754768 -0.2111120988
## 1417 -0.19805329 -0.19138696 17.48179851 -0.1662754768 -0.2111120988
## 1418 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1419 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1420 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1421 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1422 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1423 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1424 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1425 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1426 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1427 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1428 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1429 0.32376529 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1430 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1431 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1432 1.59569806 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 1433 -0.19805329 -0.19138696 -0.12851656 2.0741214254 -0.2111120988
## 1434 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1435 4.36785923 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1436 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1437 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1438 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1439 2.28058493 2.10790020 -0.12851656 -0.1662754768 -0.2111120988
## 1440 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1441 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1442 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1443 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1444 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1445 0.22592430 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1446 -0.19805329 -0.19138696 -0.12851656 1.5762554471 -0.2111120988
## 1447 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1448 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1449 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1450 -0.19805329 -0.19138696 -0.12851656 1.2443447949 -0.2111120988
## 1451 -0.19805329 -0.19138696 -0.12851656 3.8996300124 -0.2111120988
## 1452 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1453 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1454 -0.19805329 2.10790020 -0.12851656 0.8847749217 -0.2111120988
## 1455 -0.19805329 -0.19138696 3.42314362 -0.1662754768 7.3963647452
## 1456 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1457 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1458 0.97603850 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1459 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1460 -0.19805329 -0.19138696 -0.12851656 0.8986045322 -0.2111120988
## 1461 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1462 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1463 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1464 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1465 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1466 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1467 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1468 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1469 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1470 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1471 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1472 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1473 -0.19805329 6.19216028 -0.12851656 -0.1662754768 -0.2111120988
## 1474 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1475 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1476 -0.19805329 -0.19138696 -0.12851656 7.5091583549 -0.2111120988
## 1477 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1478 -0.19805329 0.29267349 0.26611235 -0.1662754768 -0.2111120988
## 1479 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1480 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1481 -0.19805329 0.47419616 -0.12851656 -0.1662754768 -0.2111120988
## 1482 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1483 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1484 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1485 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.1058661031
## 1486 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1487 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1488 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1489 0.48683359 0.44394239 -0.12851656 -0.1662754768 2.0077353141
## 1490 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1491 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1492 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1493 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1494 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1495 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1496 6.38990620 -0.19138696 -0.12851656 -0.1662754768 5.1246876321
## 1497 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1498 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1499 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1500 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1501 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1502 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1503 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1504 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1505 1.85660734 1.71460108 5.34695955 -0.1662754768 3.1171590205
## 1506 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1507 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1508 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 5.1775173324
## 1509 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1510 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1511 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1512 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1513 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1514 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1515 6.12899691 -0.19138696 4.65635896 -0.1662754768 10.0378497605
## 1516 2.57410788 2.38018420 -0.12851656 -0.1662754768 4.2794124272
## 1517 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1518 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1519 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1520 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1521 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1522 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1523 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1524 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1525 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1526 5.41149637 -0.19138696 4.11374421 -0.1662754768 8.8755963538
## 1527 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1528 -0.19805329 1.20028685 -0.12851656 -0.1662754768 2.2190541153
## 1529 0.94342484 -0.19138696 -0.12851656 -0.1662754768 1.6379274119
## 1530 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1531 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1532 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1533 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1534 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1535 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1536 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1537 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1538 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1539 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1540 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1541 -0.19805329 1.35155574 -0.12851656 -0.1662754768 -0.2111120988
## 1542 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1543 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1544 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.2643552040
## 1545 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1546 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1547 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1548 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1549 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1550 -0.19805329 -0.19138696 -0.12851656 3.7751635178 -0.2111120988
## 1551 1.66092538 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1552 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1553 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1554 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1555 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1556 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1557 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1558 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1559 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1560 1.92183467 -0.19138696 -0.12851656 -0.1662754768 3.2228184211
## 1561 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1562 -0.19805329 3.34830511 -0.12851656 -0.1662754768 -0.2111120988
## 1563 -0.19805329 -0.19138696 -0.12851656 0.4560569960 -0.2111120988
## 1564 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1565 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1566 3.74819967 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1567 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1568 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1569 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1570 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1571 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1572 -0.19805329 -0.19138696 -0.12851656 4.1070741700 -0.2111120988
## 1573 -0.19805329 0.74648017 -0.12851656 -0.1662754768 -0.2111120988
## 1574 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1575 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1576 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1577 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.5285037055
## 1578 4.72660949 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1579 -0.19805329 -0.19138696 6.77748935 -0.1662754768 -0.2111120988
## 1580 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1581 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.0530364028
## 1582 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1583 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1584 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1585 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1586 -0.19805329 1.65409352 -0.12851656 -0.1662754768 3.0114996199
## 1587 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 0.7398225067
## 1588 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1589 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1590 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1591 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1592 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1593 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1594 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1595 1.49785707 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1596 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1597 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1598 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1599 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1600 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1601 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1602 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

##	1603	-0.19805329	-0.19138696	-0.12851656	2.9038980558	0.2111120988
##	1604	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1605	2.11751663	-0.19138696	-0.12851656	-0.1662754768	3.5397966229
##	1606	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1607	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1608	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1609	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1610	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1611	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1612	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1613	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1614	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1615	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1616	-0.19805329	1.32130196	-0.12851656	-0.1662754768	-0.2111120988
##	1617	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1618	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1619	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1620	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1621	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1622	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1623	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1624	0.12808332	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1625	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1626	-0.19805329	0.53470372	-0.12851656	-0.1662754768	1.0568007086
##	1627	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1628	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1629	-0.19805329	-0.19138696	-0.12851656	19.5824083280	-0.2111120988
##	1630	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1631	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1632	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1633	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1634	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1635	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1636	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1637	-0.19805329	-0.19138696	-0.12851656	1.4379593420	-0.2111120988
##	1638	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1639	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1640	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1641	-0.19805329	-0.19138696	-0.12851656	1.3964705105	-0.2111120988
##	1642	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1643	-0.19805329	-0.19138696	-0.12851656	-0.1662754768	-0.2111120988
##	1644	-0.19805329	-0.19138696	-0.12851656	-0.166275476	



```

## 1657 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1658 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1659 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1660 -0.19805329 -0.19138696 -0.12851656 1.3411520685 -0.2111120988
## 1661 -0.19805329 -0.19138696 7.44342563 -0.1662754768 7.8718320480
## 1662 3.78081333 1.65409352 -0.12851656 -0.1662754768 -0.2111120988
## 1663 -0.19805329 -0.19138696 -0.12851656 15.1984217971 -0.2111120988
## 1664 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1665 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1666 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1667 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1668 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1669 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1670 -0.19805329 1.32130196 -0.12851656 -0.1662754768 -0.2111120988
## 1671 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1672 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1673 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1674 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1675 0.09546966 0.08089704 -0.12851656 -0.1662754768 -0.2111120988
## 1676 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1677 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1678 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1679 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1680 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1681 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1682 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1683 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1684 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1685 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1686 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1687 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1688 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1689 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 2.3775432162
## 1690 -0.19805329 0.05064327 -0.12851656 -0.1662754768 0.6869928064
## 1691 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1692 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1693 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1694 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1695 0.81297020 -0.19138696 -0.12851656 -0.1662754768 1.4266086107
## 1696 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1697 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1698 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1699 -0.19805329 1.47257085 -0.12851656 -0.1662754768 2.6945214180
## 1700 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1701 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1702 1.56308440 -0.19138696 -0.12851656 3.5677193602 -0.2111120988
## 1703 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1704 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1705 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1706 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1707 -0.13282597 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1708 -0.19805329 -0.04011807 -0.12851656 -0.0141497613 -0.2111120988
## 1709 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1710 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988

```

```

## 1711 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1712 -0.19805329 0.98851040 -0.12851656 0.3730793330 1.8492462131
## 1713 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1714 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1715 -0.19805329 -0.19138696 3.71911530 -0.1662754768 -0.2111120988
## 1716 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1717 -0.19805329 -0.19138696 0.11812651 -0.1662754768 -0.2111120988
## 1718 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1719 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1720 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1721 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1722 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 -0.2111120988
## 1723 1.43262975 1.32130196 -0.12851656 -0.1662754768 2.4303729165
## 1724 -0.19805329 -0.19138696 -0.12851656 -0.1662754768 6.5510895403
##          V44          V45          V46          V47          V48
## 1 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 2 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 3 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 4 -1.617851e-01 2.9106963867 -0.21141009 -0.07869442 -0.10740623
## 5 -1.617851e-01 0.2162083362 0.32441308 -0.07869442 -0.10740623
## 6 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 7 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 8 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 9 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 10 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 0.42779264
## 11 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 12 -1.617851e-01 -0.3430250327 0.77499165 -0.07869442 -0.10740623
## 13 -2.698615e-02 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 14 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 15 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 16 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 17 6.470321e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 18 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 19 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 20 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 21 -1.617851e-01 -0.3430250327 1.11597003 -0.07869442 -0.10740623
## 22 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 23 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 24 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 25 -1.617851e-01 0.2670477334 0.96983644 -0.07869442 -0.10740623
## 26 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 27 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 28 6.766879e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 29 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 30 -1.617851e-01 3.5080593036 -0.21141009 -0.07869442 -0.10740623
## 31 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 32 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 33 -1.617851e-01 0.0001408982 -0.05309870 -0.07869442 -0.10740623
## 34 -1.617851e-01 1.3219652249 -0.21141009 -0.07869442 -0.10740623
## 35 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 36 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 37 -1.617851e-01 2.0972660319 2.12672737 -0.07869442 -0.10740623
## 38 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 39 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 40 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 41 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 42 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 43 -1.617851e-01 9.4308490749 9.15331753 -0.07869442 -0.10740623
## 44 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 45 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 46 -1.617851e-01 0.5212447193 0.61668026 -0.07869442 -0.10740623
## 47 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 48 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 49 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 50 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 51 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 52 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 53 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 54 1.617561e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 55 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 56 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 -0.10740623
## 57 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 58 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 59 -1.617851e-01 -0.3430250327 0.31223528 -0.07869442 -0.10740623
## 60 5.122332e+00 -0.3430250327 0.98201424 -0.07869442 -0.10740623
## 61 -1.617851e-01 10.2442794298 -0.21141009 -0.07869442 -0.10740623
## 62 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 63 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 64 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 65 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 66 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 67 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 68 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 69 -1.617851e-01 0.3051772813 -0.21141009 -0.07869442 -0.10740623
## 70 -1.617851e-01 1.2457061291 2.83303972 -0.07869442 -0.10740623
## 71 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 72 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 73 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 74 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 75 -1.617851e-01 3.2792820163 -0.21141009 -0.07869442 -0.10740623
## 76 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 77 -1.617851e-01 0.7373121573 -0.21141009 -0.07869442 -0.10740623
## 78 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 79 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 80 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 81 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 82 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 83 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 84 -1.617851e-01 -0.3430250327 0.53143567 -0.07869442 0.29399292
## 85 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 86 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 87 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 88 -1.617851e-01 0.1526590898 -0.21141009 -0.07869442 -0.10740623
## 89 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 90 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 91 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 92 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 93 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 94 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 95 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 96 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 97 -1.617851e-01 -0.3430250327 8.48353858 -0.07869442 -0.10740623
## 98 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 99 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 100 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 101 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 102 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 103 -1.617851e-01 1.2838356770 -0.21141009 -0.07869442 -0.10740623
## 104 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 105 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 106 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 107 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 108 -1.617851e-01 -0.3430250327 0.48272447 -0.07869442 -0.10740623
## 109 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 110 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 111 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 112 8.249667e+00 3.6224479472 -0.21141009 -0.07869442 -0.10740623
## 113 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 114 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 115 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 116 -1.617851e-01 -0.0888280468 0.03214590 -0.07869442 -0.10740623
## 117 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 118 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 119 -1.617851e-01 4.1943911655 4.13606424 -0.07869442 -0.10740623
## 120 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 121 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 122 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 123 -1.617851e-01 -0.3430250327 0.76281385 -0.07869442 -0.10740623
## 124 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 125 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 126 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 127 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 128 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 129 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 130 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 131 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 132 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 133 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 134 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 135 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 136 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 137 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 138 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 139 -1.617851e-01 -0.3430250327 0.88459184 -0.07869442 -0.10740623
## 140 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 141 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 142 1.644520e+00 0.5085348700 -0.21141009 -0.07869442 -0.10740623
## 143 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 144 -1.617851e-01 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 145 -5.394593e-02 -0.2286363891 -0.21141009 -0.07869442 -0.10740623
## 146 7.009279e-01 0.0636901447 0.56796906 -0.07869442 -0.10740623
## 147 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 148 -1.617851e-01 -0.3430250327 -0.21141009 0.92139856 -0.10740623
## 149 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 150 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 151 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 -0.10740623
## 152 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 153 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 154 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 155 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 156 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 157 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 158 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 159 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 160 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 161 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 162 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 163 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 164 -1.617851e-01 1.3855144714 0.61668026 -0.07869442 -0.10740623
## 165 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 166 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 167 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 168 6.092884e+00 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 169 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 170 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 171 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 172 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 173 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 174 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 175 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 176 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 177 -1.617851e-01 1.3855144714 0.61668026 -0.07869442 -0.10740623
## 178 -1.617851e-01 0.2034984869 -0.21141009 -0.07869442 -0.10740623
## 179 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 180 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 181 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 182 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 183 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 184 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 185 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 186 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 187 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 188 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 189 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 190 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 191 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 192 -1.617851e-01 2.3514630178 1.07943663 -0.07869442 -0.10740623
## 193 -1.617851e-01 -0.3430250327 3.44192969 -0.07869442 0.34751281
## 194 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 195 -1.617851e-01 -0.3430250327 1.99277158 -0.07869442 -0.10740623
## 196 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 197 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 198 5.122095e-01 -0.3430250327 -0.21141009 -0.07869442 0.56159235
## 199 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 200 -1.617851e-01 0.5466644179 -0.04092090 -0.07869442 -0.10740623
## 201 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 202 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 203 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 204 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 205 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 206 -1.617851e-01 1.4363538685 -0.21141009 -0.07869442 -0.10740623
## 207 -1.617851e-01 -0.3430250327 2.61383934 -0.07869442 -0.10740623
## 208 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 209 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 210 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 211 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 212 -1.617851e-01 6.7109413259 -0.21141009 -0.07869442 -0.10740623
## 213 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 214 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 215 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 216 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 217 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 218 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 219 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 220 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 221 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 222 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 223 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 224 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 225 -1.617851e-01 4.5375570965 -0.21141009 -0.07869442 -0.10740623
## 226 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 227 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 228 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 229 1.590601e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 230 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 231 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 232 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 233 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 234 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 1.49819037
## 235 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 236 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 237 -1.617851e-01 0.2924674320 -0.21141009 -0.07869442 -0.10740623
## 238 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 239 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 240 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 241 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 242 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 243 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 244 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 245 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 246 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 247 -1.617851e-01 1.7032607037 1.74921559 -0.07869442 -0.10740623
## 248 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 249 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 250 4.583136e+00 -0.3430250327 -0.21141009 -0.07869442 2.24746878
## 251 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 252 -1.617851e-01 0.9533795953 0.20263509 -0.07869442 -0.10740623
## 253 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 254 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 255 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 256 -1.617851e-01 0.1780787884 0.54361346 -0.07869442 0.42779264
## 257 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 258 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 259 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 260 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 261 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 262 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 263 4.690976e+00 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 264 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 265 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 266 -1.617851e-01 1.0804780883 -0.21141009 -0.07869442 -0.10740623
## 267 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 268 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 269 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 270 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 271 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 272 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 273 -1.617851e-01 2.3895925656 -0.21141009 -0.07869442 -0.10740623
## 274 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 275 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 276 -1.617851e-01 0.8008614038 -0.21141009 -0.07869442 -0.10740623
## 277 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 278 -1.617851e-01 0.3051772813 0.09303489 -0.07869442 -0.10740623
## 279 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 280 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 281 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 282 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 283 -1.617851e-01 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 284 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 285 -1.617851e-01 4.5375570965 -0.21141009 -0.07869442 -0.10740623
## 286 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 287 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 288 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 289 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 290 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 291 6.928637e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 292 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 293 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 294 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 295 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 296 4.906654e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 297 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 298 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 299 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 300 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 301 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 302 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 303 -1.617851e-01 0.9406697460 -0.21141009 -0.07869442 -0.10740623
## 304 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 305 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 306 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 307 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 308 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 309 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623

```

```

## 310 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 311 -1.617851e-01 0.5593742672 -0.21141009 -0.07869442 -0.10740623
## 312 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 313 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 314 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 315 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 316 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 317 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 318 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 319 1.401882e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 320 -1.617851e-01 3.0250850304 -0.21141009 -0.07869442 -0.10740623
## 321 4.582899e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 322 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 323 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 324 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 325 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 326 -1.617851e-01 0.2543378841 -0.21141009 -0.07869442 -0.10740623
## 327 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 328 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 329 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 330 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 331 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 0.40103269
## 332 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 333 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 334 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 2.35450855
## 335 3.127308e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 336 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 337 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 338 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 339 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 340 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 341 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 342 -1.617851e-01 -0.1905068412 -0.21141009 -0.07869442 -0.10740623
## 343 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 344 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 345 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 346 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 347 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 348 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 349 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 350 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 351 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 352 -1.617851e-01 0.7246023080 0.81152505 -0.07869442 -0.10740623
## 353 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 354 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 355 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 356 -1.617851e-01 1.7032607037 1.74921559 -0.07869442 -0.10740623
## 357 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 358 1.207796e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 359 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 360 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 361 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 362 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 363 -1.617851e-01 2.8344372910 -0.21141009 -0.07869442 -0.10740623

```



```

## 364 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 365 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 366 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 -0.10740623
## 367 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 368 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 369 -1.617851e-01 -0.3430250327 -0.07745430 -0.07869442 -0.10740623
## 370 1.617323e-01 -0.1905068412 -0.21141009 -0.07869442 0.21371309
## 371 -1.617851e-01 0.3687265278 -0.10180990 0.92139856 -0.10740623
## 372 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 373 -1.617851e-01 1.0804780883 0.47054667 -0.07869442 -0.10740623
## 374 -1.617851e-01 -0.3430250327 0.25134628 -0.07869442 -0.10740623
## 375 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 376 5.661290e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 377 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.38126850
## 378 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 379 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 380 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 381 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 382 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 383 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 384 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 385 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 386 1.186204e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 387 -1.617851e-01 0.2670477334 0.96983644 -0.07869442 -0.10740623
## 388 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 389 1.509721e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 390 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 391 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 392 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 393 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 394 -1.617851e-01 0.1907886377 -0.21141009 -0.07869442 -0.10740623
## 395 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 396 -1.617851e-01 1.2838356770 -0.21141009 -0.07869442 -0.10740623
## 397 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 398 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 399 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 400 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 401 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 402 -8.090571e-02 -0.3430250327 -0.10180990 -0.07869442 0.50807247
## 403 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 404 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 405 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 406 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 407 -1.617851e-01 3.3174115642 -0.21141009 -0.07869442 -0.10740623
## 408 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 409 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 410 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 411 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 412 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 413 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 414 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 415 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 416 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 417 -1.617851e-01 0.8644106503 -0.21141009 -0.07869442 -0.10740623

```

```

## 418 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 419 -1.617851e-01 -0.3430250327 7.39971444 -0.07869442 -0.10740623
## 420 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 421 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 422 -1.617851e-01 1.1058977869 -0.21141009 -0.07869442 -0.10740623
## 423 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 424 -1.617851e-01 -0.3430250327 0.60450246 -0.07869442 0.77567190
## 425 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 426 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 427 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 428 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 429 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 430 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 431 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 432 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 433 -1.617851e-01 0.1526590898 0.26352408 -0.07869442 -0.10740623
## 434 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 435 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623
## 436 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 437 -1.617851e-01 -0.3430250327 11.96638916 -0.07869442 -0.10740623
## 438 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 439 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 440 1.590601e+00 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 441 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 442 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 2.14042901
## 443 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 444 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 445 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 446 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 447 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 448 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 449 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 450 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 451 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 452 -1.617851e-01 -0.3430250327 0.77499165 -0.07869442 -0.10740623
## 453 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 454 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 455 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 456 -1.617851e-01 0.8262811024 2.04148277 -0.07869442 -0.10740623
## 457 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 458 -1.617851e-01 -0.1142477454 -0.21141009 -0.07869442 -0.10740623
## 459 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 460 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 461 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 462 -1.617851e-01 -0.3430250327 0.26352408 0.25466991 1.25735088
## 463 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 464 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 465 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 466 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 5.24458243
## 467 -1.617851e-01 -0.1905068412 0.08085709 -0.07869442 -0.10740623
## 468 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 469 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 470 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 471 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 472 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 473 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 474 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 475 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 476 -1.348253e-01 -0.3303151834 0.06867929 -0.07869442 0.29399292
## 477 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 478 4.043703e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 479 -1.617851e-01 4.3596192063 -0.21141009 -0.07869442 -0.10740623
## 480 -1.617851e-01 0.0891098433 -0.11398770 -0.07869442 -0.10740623
## 481 -1.617851e-01 -0.2540560877 -0.21141009 -0.07869442 -0.10740623
## 482 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 483 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 484 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 485 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 486 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623
## 487 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 488 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 489 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 490 -1.617851e-01 1.0423485404 -0.21141009 -0.07869442 -0.10740623
## 491 -1.617851e-01 0.1399492405 -0.21141009 -0.07869442 -0.10740623
## 492 -1.617851e-01 -0.3430250327 3.19837370 -0.07869442 -0.10740623
## 493 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 494 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 495 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 496 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 497 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 498 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 499 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 500 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 501 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 502 -1.617851e-01 -0.3430250327 1.04290323 -0.07869442 -0.10740623
## 503 2.156519e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 504 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 505 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 506 -1.617851e-01 -0.2286363891 0.99419204 -0.07869442 -0.10740623
## 507 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 508 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 509 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 510 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 511 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 512 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 513 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.27422872
## 514 -1.617851e-01 0.1653689391 -0.21141009 -0.07869442 -0.10740623
## 515 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 516 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 517 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 518 -1.617851e-01 0.5593742672 -0.07745430 -0.07869442 -0.10740623
## 519 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 520 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 521 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 522 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 523 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 524 -2.698615e-02 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 525 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 -0.10740623

```

```

## 526 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 527 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 528 -1.617851e-01 -0.3430250327 0.03214590 -0.07869442 -0.10740623
## 529 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 530 8.384466e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 531 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 532 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 533 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 534 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 535 -1.617851e-01 -0.3430250327 10.85820943 -0.07869442 -0.10740623
## 536 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 537 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 538 -1.617851e-01 -0.3430250327 0.32441308 -0.07869442 -0.10740623
## 539 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 540 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 541 -1.617851e-01 2.9106963867 2.90610652 -0.07869442 -0.10740623
## 542 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 543 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 544 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 545 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 546 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 547 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 548 -1.617851e-01 0.1780787884 -0.21141009 -0.07869442 0.98975145
## 549 -5.394593e-02 -0.2286363891 -0.21141009 -0.07869442 -0.10740623
## 550 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 551 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 552 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 553 -1.617851e-01 7.6006307765 -0.21141009 -0.07869442 -0.10740623
## 554 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 555 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 556 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 557 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 558 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 559 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 560 9.974855e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 561 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 562 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 563 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 564 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 565 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 0.24047303
## 566 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 567 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 568 1.563641e+00 -0.0252788004 -0.06527650 -0.07869442 -0.10740623
## 569 -1.617851e-01 2.1735251276 3.40539629 -0.07869442 -0.10740623
## 570 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 571 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 572 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 573 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 574 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 575 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 576 -1.617851e-01 -0.1396674440 -0.21141009 -0.07869442 -0.10740623
## 577 -1.617851e-01 0.0001408982 0.11739049 -0.07869442 -0.10740623
## 578 -1.617851e-01 0.6229235137 0.09303489 -0.07869442 -0.10740623
## 579 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 580 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 581 3.747383e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 582 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 583 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 584 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 585 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 586 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 587 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 588 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 589 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 590 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 591 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 592 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 593 -1.617851e-01 -0.3430250327 -0.21141009 4.25504183 -0.10740623
## 594 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 595 -1.617851e-01 1.8557788953 -0.21141009 -0.07869442 -0.10740623
## 596 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 597 -1.617851e-01 0.3941462264 1.20121462 -0.07869442 -0.10740623
## 598 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 599 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.10378697
## 600 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 601 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 602 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 603 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 604 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 605 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 606 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 607 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 608 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 609 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 610 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 611 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 612 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 613 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 614 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 615 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 616 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 617 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 618 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 619 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 620 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 621 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 622 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 623 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 624 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 625 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 626 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 627 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 628 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 629 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 630 -1.617851e-01 -0.3430250327 -0.21141009 6.69971355 -0.10740623
## 631 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 632 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 633 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 634 -1.617851e-01 -0.3430250327 -0.21141009 7.14419932 -0.10740623
## 635 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 636 -1.617851e-01 -0.3430250327 1.38388161 -0.07869442 -0.10740623
## 637 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 638 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 639 -1.617851e-01 -0.3430250327 0.53143567 -0.07869442 -0.10740623
## 640 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 641 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 642 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 643 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 644 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 645 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 646 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 647 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 648 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 649 3.100348e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 650 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 651 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 652 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 653 -1.617851e-01 2.1735251276 3.40539629 -0.07869442 -0.10740623
## 654 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 655 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 656 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 657 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 658 -1.617851e-01 -0.3430250327 0.90894744 -0.07869442 -0.10740623
## 659 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 660 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 12.63032678
## 661 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 662 1.401882e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 663 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 664 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 665 -1.617851e-01 0.9406697460 1.01854764 -0.07869442 -0.10740623
## 666 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 667 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 668 -1.617851e-01 2.8852766881 -0.21141009 -0.07869442 -0.10740623
## 669 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 670 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 671 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 672 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623
## 673 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 674 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 675 -1.617851e-01 -0.3430250327 9.04371734 -0.07869442 -0.10740623
## 676 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 677 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 678 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 679 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 -0.10740623
## 680 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 681 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 682 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 683 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 684 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 685 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 686 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 1.55171026
## 687 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 688 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 689 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 690 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 691 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 692 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 693 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 694 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 695 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.56858810
## 696 -1.617851e-01 -0.1142477454 -0.21141009 -0.07869442 -0.10740623
## 697 -1.617851e-01 -0.3430250327 1.40823721 -0.07869442 -0.10740623
## 698 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 699 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 700 5.391693e-01 -0.3430250327 2.71126173 -0.07869442 -0.10740623
## 701 9.462857e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 702 -1.617851e-01 0.0763999940 -0.21141009 -0.07869442 -0.10740623
## 703 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 704 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 705 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 706 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 707 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 708 -1.617851e-01 -0.3430250327 0.40965767 -0.07869442 -0.10740623
## 709 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 710 -1.617851e-01 -0.2032166905 -0.21141009 -0.07869442 0.18695315
## 711 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 712 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 713 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 714 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 715 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 -0.10740623
## 716 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 717 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.95310940
## 718 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 719 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 720 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 721 -1.617851e-01 0.4195659250 1.26210362 -0.07869442 -0.10740623
## 722 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 723 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 724 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 725 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 726 -1.617851e-01 -0.3430250327 0.71410265 -0.07869442 -0.10740623
## 727 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 728 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 729 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 730 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 731 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 732 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 733 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 734 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 735 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 736 -1.617851e-01 0.0255605968 0.14174609 -0.07869442 -0.10740623
## 737 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 738 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 739 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 740 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 741 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 742 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 743 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 744 -1.617851e-01 0.6610530616 -0.21141009 -0.07869442 -0.10740623
## 745 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 746 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 747 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 748 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 749 -1.617851e-01 0.8771204996 -0.21141009 -0.07869442 -0.10740623
## 750 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 751 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 752 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 753 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.20383099
## 754 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 755 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 756 1.331811e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 757 1.994997e+00 0.6737629109 0.76281385 -0.07869442 -0.10740623
## 758 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 759 -1.617851e-01 1.2457061291 1.31081482 -0.07869442 -0.10740623
## 760 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 761 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 762 -1.617851e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 763 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 764 1.994997e+00 0.6737629109 -0.21141009 -0.07869442 -0.10740623
## 765 7.009279e-01 0.0636901447 0.56796906 -0.07869442 -0.10740623
## 766 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 767 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 768 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 769 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 770 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 771 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 772 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 773 1.563641e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 774 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 775 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 776 -1.617851e-01 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 777 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 778 -1.617851e-01 -0.3430250327 -0.21141009 2.03261298 0.40103269
## 779 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 780 7.548475e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 781 3.316027e+00 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 782 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 783 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 784 -1.617851e-01 -0.3430250327 9.15331753 -0.07869442 -0.10740623
## 785 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 786 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 787 -1.617851e-01 1.3219652249 -0.21141009 -0.07869442 -0.10740623
## 788 -1.617851e-01 4.0291631247 -0.21141009 -0.07869442 -0.10740623
## 789 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 -0.10740623
## 790 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 791 -1.617851e-01 5.1730495612 -0.21141009 -0.07869442 -0.10740623
## 792 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.92634946
## 793 -1.617851e-01 0.1907886377 -0.21141009 -0.07869442 -0.10740623
## 794 -1.617851e-01 -0.1650871426 3.52717428 -0.07869442 -0.10740623
## 795 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```



```

## 796 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 797 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 798 7.818073e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 799 -1.617851e-01 1.0804780883 -0.21141009 -0.07869442 -0.10740623
## 800 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 801 -1.617851e-01 -0.0379886497 0.38530207 -0.07869442 -0.10740623
## 802 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 803 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 804 -1.617851e-01 0.8644106503 0.94548084 -0.07869442 -0.10740623
## 805 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 806 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 807 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 808 -1.617851e-01 -0.1396674440 -0.21141009 -0.07869442 -0.10740623
## 809 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 810 -1.617851e-01 0.3051772813 -0.21141009 -0.07869442 -0.10740623
## 811 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 812 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 813 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 814 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 815 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 816 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 817 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 818 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 819 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 820 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 821 -1.617851e-01 0.0128507475 -0.21141009 -0.07869442 -0.10740623
## 822 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 823 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 824 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 825 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 826 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 827 -1.617851e-01 -0.0252788004 -0.21141009 -0.07869442 -0.10740623
## 828 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 829 -1.617851e-01 1.4109341699 3.16184030 -0.07869442 -0.10740623
## 830 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 831 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 832 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 833 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 834 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 835 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 836 -1.617851e-01 0.0001408982 0.11739049 -0.07869442 -0.10740623
## 837 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 838 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 839 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 840 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 841 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 842 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 843 -1.617851e-01 7.6006307765 -0.21141009 -0.07869442 -0.10740623
## 844 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 845 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 846 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 847 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 848 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 849 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 850 -1.617851e-01 1.0296386911 0.66539146 -0.07869442 -0.10740623
## 851 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 852 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 853 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 854 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 855 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 856 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 857 3.585625e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 858 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 859 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 860 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 861 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 862 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 863 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 864 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 865 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 866 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 867 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 868 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 869 -1.617851e-01 1.7286804023 -0.21141009 -0.07869442 -0.10740623
## 870 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 871 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 872 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 873 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 874 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 875 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 876 5.391693e-01 0.3178871306 0.10521269 -0.07869442 -0.10740623
## 877 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.80243184
## 878 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 879 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 880 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 881 -1.617851e-01 0.7500220066 -0.21141009 -0.07869442 -0.10740623
## 882 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 883 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 884 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 885 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 886 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 887 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 888 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 4.41502419
## 889 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 890 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 891 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 892 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 893 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 894 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 895 -1.617851e-01 -0.3430250327 -0.06527650 -0.07869442 -0.10740623
## 896 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 897 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 898 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 899 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 900 -1.617851e-01 0.2034984869 -0.21141009 -0.07869442 -0.10740623
## 901 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 902 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 903 -1.617851e-01 1.0296386911 -0.21141009 -0.07869442 -0.10740623

```

```

## 904 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 905 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 906 -1.617851e-01 0.9533795953 -0.21141009 -0.07869442 -0.10740623
## 907 -1.617851e-01 1.6397114573 -0.21141009 -0.07869442 -0.10740623
## 908 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 909 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 910 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 911 -1.617851e-01 2.4150122642 2.43117235 -0.07869442 -0.10740623
## 912 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 913 -1.617851e-01 4.1943911655 -0.21141009 -0.07869442 -0.10740623
## 914 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 915 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 916 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 917 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 918 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 919 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 920 -1.617851e-01 0.5847939658 -0.21141009 -0.07869442 -0.10740623
## 921 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 922 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 923 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 924 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 925 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 926 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 927 8.896464e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 928 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 0.05315343
## 929 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.92634946
## 930 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 931 -1.617851e-01 -0.2286363891 -0.10180990 -0.07869442 -0.10740623
## 932 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 933 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.53483241
## 934 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 935 -1.617851e-01 -0.3430250327 -0.21141009 3.69943462 -0.10740623
## 936 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 937 6.739682e-01 0.0509802954 0.16610169 -0.07869442 -0.10740623
## 938 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 939 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 940 4.016981e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 941 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 942 -1.617851e-01 -0.3430250327 3.97775285 -0.07869442 -0.10740623
## 943 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 944 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 945 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 946 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 947 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 948 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 949 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 950 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 951 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 952 -1.617851e-01 -0.3430250327 3.30797389 -0.07869442 -0.10740623
## 953 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 954 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 955 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 956 1.779319e+00 -0.3430250327 -0.21141009 7.92204942 -0.10740623
## 957 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 958 8.357269e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 959 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 960 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 961 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 962 -1.617851e-01 1.0042189925 -0.21141009 -0.07869442 -0.10740623
## 963 -1.617851e-01 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 964 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 965 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 966 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 967 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 968 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 969 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 970 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 971 -1.617851e-01 2.3514630178 -0.21141009 -0.07869442 -0.10740623
## 972 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 973 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 974 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 975 6.739682e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 976 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 977 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.33763071
## 978 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 979 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 980 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 981 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 982 -1.617851e-01 0.9660894446 -0.21141009 -0.07869442 -0.10740623
## 983 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 984 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 985 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 986 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 987 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 988 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 989 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 990 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 991 1.779319e+00 -0.3430250327 -0.21141009 7.92204942 -0.10740623
## 992 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 993 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 994 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 995 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 996 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 997 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 998 -1.617851e-01 4.3596192063 -0.21141009 -0.07869442 -0.10740623
## 999 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1000 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1001 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1002 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1003 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1004 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1005 -1.617851e-01 8.7318073637 -0.21141009 -0.07869442 -0.10740623
## 1006 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1007 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1008 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1009 1.994997e+00 -0.3430250327 -0.21141009 -0.07869442 0.42779264
## 1010 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1011 -1.617851e-01 -0.3430250327 5.93837853 -0.07869442 -0.10740623

```

```

## 1012 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1013 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1014 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1015 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1016 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1017 -1.617851e-01 -0.3430250327 5.06157699 -0.07869442 -0.10740623
## 1018 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 1019 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1020 -1.617851e-01 -0.1777969919 -0.21141009 -0.07869442 -0.10740623
## 1021 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1022 -1.617851e-01 -0.0506984989 -0.21141009 -0.07869442 -0.10740623
## 1023 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1024 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1025 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1026 -1.617851e-01 -0.3430250327 0.70192485 -0.07869442 -0.10740623
## 1027 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 1028 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1029 -1.617851e-01 1.0296386911 0.66539146 -0.07869442 -0.10740623
## 1030 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1031 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1032 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1033 -1.617851e-01 -0.3430250327 1.60308200 -0.07869442 -0.10740623
## 1034 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1035 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1036 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 1037 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 1038 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1039 -1.617851e-01 0.4958250207 -0.21141009 -0.07869442 -0.10740623
## 1040 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1041 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1042 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1043 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1044 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1045 -1.617851e-01 -0.3430250327 -0.21141009 6.69971355 -0.10740623
## 1046 -1.617851e-01 -0.3430250327 1.71268219 -0.07869442 -0.10740623
## 1047 -1.617851e-01 -0.3430250327 -0.06527650 1.25476289 -0.10740623
## 1048 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1049 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1050 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1051 -1.617851e-01 1.0169288418 -0.21141009 -0.07869442 -0.10740623
## 1052 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1053 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1054 -1.617851e-01 -0.3430250327 1.09161443 -0.07869442 -0.10740623
## 1055 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1056 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1057 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 1058 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1059 -1.617851e-01 0.3687265278 -0.21141009 -0.07869442 -0.10740623
## 1060 -1.617851e-01 -0.3430250327 1.11597003 -0.07869442 -0.10740623
## 1061 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1062 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1063 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1064 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1065 -1.617851e-01 -0.2413462384 -0.21141009 -0.07869442 -0.10740623

```

```

## 1066 -1.617851e-01 0.3433068292 0.11739049 -0.07869442 -0.10740623
## 1067 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1068 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1069 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 1070 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1071 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 1072 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1073 -1.617851e-01 1.7286804023 -0.21141009 -0.07869442 -0.10740623
## 1074 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1075 2.237635e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1076 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1077 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 1078 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1079 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1080 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1081 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1082 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1083 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 1084 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1085 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1086 -1.617851e-01 -0.1269575947 -0.21141009 -0.07869442 -0.10740623
## 1087 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1088 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1089 -1.617851e-01 0.2416280348 -0.21141009 -0.07869442 -0.10740623
## 1090 3.855222e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1091 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1092 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1093 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1094 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1095 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1096 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1097 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1098 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1099 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1100 -1.617851e-01 -0.1905068412 0.55579126 -0.07869442 -0.10740623
## 1101 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1102 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1103 -1.617851e-01 3.5080593036 -0.21141009 -0.07869442 -0.10740623
## 1104 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1105 -1.617851e-01 -0.2921856355 -0.21141009 -0.07869442 -0.10740623
## 1106 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1107 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1108 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 1109 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1110 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 1111 -1.617851e-01 0.6483432123 -0.21141009 -0.07869442 -0.10740623
## 1112 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1113 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1114 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1115 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1116 9.166062e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1117 -1.617851e-01 0.4958250207 2.19979416 -0.07869442 -0.10740623
## 1118 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1119 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1120 -1.617851e-01 0.7246023080 0.81152505 -0.07869442 -0.10740623
## 1121 -1.617851e-01 -0.3430250327 0.49490227 -0.07869442 -0.10740623
## 1122 -1.617851e-01 0.6610530616 -0.21141009 -0.07869442 -0.10740623
## 1123 -1.617851e-01 -0.3430250327 0.54361346 -0.07869442 4.86994322
## 1124 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 1125 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1126 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1127 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1128 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1129 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1130 -1.617851e-01 -0.3430250327 0.42183547 -0.07869442 -0.10740623
## 1131 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1132 -1.617851e-01 0.8517008010 0.93330304 -0.07869442 -0.10740623
## 1133 -1.617851e-01 -0.3430250327 6.94913587 -0.07869442 -0.10740623
## 1134 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1135 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1136 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1137 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1138 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1139 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1140 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1141 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1142 -1.617851e-01 1.4744834164 -0.21141009 -0.07869442 -0.10740623
## 1143 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1144 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1145 -1.617851e-01 1.0423485404 -0.21141009 -0.07869442 -0.10740623
## 1146 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1147 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1148 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1149 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1150 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.33763071
## 1151 -1.617851e-01 -0.3430250327 0.19045729 -0.07869442 -0.10740623
## 1152 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1153 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1154 -1.617851e-01 0.0255605968 -0.21141009 -0.07869442 -0.10740623
## 1155 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1156 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1157 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1158 -1.617851e-01 -0.3430250327 -0.02874310 -0.07869442 -0.10740623
## 1159 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1160 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1161 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1162 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1163 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1164 -1.617851e-01 3.0886342769 -0.21141009 -0.07869442 -0.10740623
## 1165 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1166 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1167 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1168 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1169 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1170 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1171 -1.617851e-01 0.3178871306 -0.21141009 -0.07869442 -0.10740623
## 1172 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1173 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623

```

```

## 1174 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1175 -1.617851e-01 -0.3430250327 -0.04092090 1.47700577 -0.10740623
## 1176 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1177 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1178 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1179 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1180 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1181 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1182 -1.617851e-01 -0.3430250327 4.13606424 -0.07869442 -0.10740623
## 1183 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1184 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1185 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1186 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1187 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1188 -1.617851e-01 1.1948667319 -0.21141009 -0.07869442 -0.10740623
## 1189 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1190 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1191 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1192 -1.617851e-01 3.3936706599 -0.21141009 -0.07869442 -0.10740623
## 1193 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1194 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.24047303
## 1195 -1.617851e-01 0.6864727601 -0.21141009 -0.07869442 -0.10740623
## 1196 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1197 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1198 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1199 1.186204e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1200 -1.617851e-01 -0.3430250327 0.34876868 -0.07869442 -0.10740623
## 1201 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1202 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1203 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1204 -1.617851e-01 -0.3430250327 0.38530207 -0.07869442 -0.10740623
## 1205 -1.617851e-01 -0.0125689511 -0.11398770 -0.07869442 -0.10740623
## 1206 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1207 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1208 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1209 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1210 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1211 -1.617851e-01 -0.3430250327 0.71410265 -0.07869442 -0.10740623
## 1212 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1213 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1214 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1215 -1.617851e-01 0.8771204996 -0.21141009 -0.07869442 -0.10740623
## 1216 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1217 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1218 -1.617851e-01 1.2965455263 2.93046212 -0.07869442 -0.10740623
## 1219 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1220 -1.617851e-01 0.7246023080 -0.21141009 -0.07869442 -0.10740623
## 1221 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1222 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1223 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1224 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1225 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1226 -1.617851e-01 1.1313174855 -0.21141009 -0.07869442 -0.10740623
## 1227 -1.617851e-01 2.4150122642 2.43117235 -0.07869442 -0.10740623

```



```

## 1228 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1229 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1230 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1231 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1232 -1.617851e-01 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 1233 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1234 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 1235 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1236 -1.617851e-01 -0.3430250327 1.57872640 -0.07869442 -0.10740623
## 1237 -1.617851e-01 0.6229235137 1.63961540 -0.07869442 -0.10740623
## 1238 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 1239 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.07003128
## 1240 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1241 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1242 -1.617851e-01 -0.3430250327 -0.06527650 -0.07869442 -0.10740623
## 1243 -1.617851e-01 0.0891098433 -0.21141009 -0.07869442 -0.10740623
## 1244 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1245 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1246 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1247 -1.617851e-01 0.4068560757 -0.21141009 -0.07869442 -0.10740623
## 1248 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1249 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1250 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1251 -1.617851e-01 1.7032607037 -0.21141009 -0.07869442 -0.10740623
## 1252 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1253 -1.617851e-01 0.0636901447 2.15108297 -0.07869442 -0.10740623
## 1254 -1.617851e-01 -0.3430250327 0.40965767 -0.07869442 -0.10740623
## 1255 -1.617851e-01 -0.2540560877 -0.21141009 -0.07869442 -0.10740623
## 1256 -1.617851e-01 -0.3430250327 10.85820943 -0.07869442 -0.10740623
## 1257 -1.617851e-01 -0.3430250327 0.22699068 -0.07869442 -0.10740623
## 1258 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1259 -1.617851e-01 -0.0506984989 1.49348181 -0.07869442 -0.10740623
## 1260 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1261 -1.617851e-01 -0.3430250327 1.16468123 -0.07869442 -0.10740623
## 1262 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1263 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1264 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1265 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1266 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1267 -1.617851e-01 -0.2159265398 -0.08963210 -0.07869442 -0.10740623
## 1268 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1269 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1270 -1.617851e-01 0.5212447193 0.61668026 -0.07869442 -0.10740623
## 1271 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1272 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1273 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1274 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1275 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1276 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1277 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 8.80365489
## 1278 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 1279 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1280 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1281 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1282 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1283 -1.617851e-01 0.1272393912 -0.21141009 -0.07869442 -0.10740623
## 1284 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1285 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 1286 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1287 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 1288 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1289 -1.617851e-01 0.0509802954 -0.21141009 -0.07869442 -0.10740623
## 1290 -1.617851e-01 0.8644106503 2.49206134 -0.07869442 -0.10740623
## 1291 -1.617851e-01 -0.3430250327 0.19045729 -0.07869442 -0.10740623
## 1292 -1.617851e-01 -0.3430250327 0.58014686 -0.07869442 -0.10740623
## 1293 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1294 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1295 -1.617851e-01 -0.0379886497 0.38530207 -0.07869442 -0.10740623
## 1296 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1297 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1298 -1.617851e-01 0.9279598967 0.39747987 -0.07869442 -0.10740623
## 1299 -2.637083e-05 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1300 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1301 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1302 -1.617851e-01 0.9660894446 -0.21141009 -0.07869442 -0.10740623
## 1303 -1.617851e-01 0.5466644179 -0.21141009 -0.07869442 -0.10740623
## 1304 -1.617851e-01 0.9279598967 -0.21141009 -0.07869442 -0.10740623
## 1305 -1.617851e-01 0.4449856235 -0.21141009 -0.07869442 -0.10740623
## 1306 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1307 1.401882e+00 0.3941462264 -0.21141009 -0.07869442 -0.10740623
## 1308 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1309 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1310 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1311 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1312 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1313 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1314 2.695714e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1315 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1316 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1317 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1318 2.237635e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1319 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1320 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1321 -1.617851e-01 -0.3430250327 -0.21141009 2.03261298 0.40103269
## 1322 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1323 9.435660e-01 -0.3430250327 -0.21141009 -0.07869442 0.98975145
## 1324 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1325 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1326 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1327 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1328 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1329 -1.617851e-01 -0.1523772933 -0.21141009 -0.07869442 -0.10740623
## 1330 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1331 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1332 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1333 -1.617851e-01 -0.3430250327 2.32157215 -0.07869442 -0.10740623
## 1334 -1.617851e-01 1.3728046221 -0.21141009 -0.07869442 -0.10740623
## 1335 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1336 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1337 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1338 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1339 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1340 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1341 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1342 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1343 -1.617851e-01 0.0763999940 0.19045729 -0.07869442 -0.10740623
## 1344 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 -0.10740623
## 1345 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1346 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 1347 -1.617851e-01 2.3514630178 1.07943663 -0.07869442 -0.10740623
## 1348 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1349 -1.617851e-01 -0.3430250327 0.49490227 -0.07869442 -0.10740623
## 1350 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 1351 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1352 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1353 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1354 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1355 -1.617851e-01 0.3305969799 -0.21141009 -0.07869442 -0.10740623
## 1356 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.27422872
## 1357 2.426117e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1358 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1359 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1360 -1.617851e-01 -0.0506984989 1.49348181 -0.07869442 -0.10740623
## 1361 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1362 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1363 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1364 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1365 1.240124e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1366 -1.617851e-01 0.7500220066 -0.21141009 -0.07869442 -0.10740623
## 1367 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1368 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1369 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 1370 -1.617851e-01 0.2162083362 -0.21141009 -0.07869442 -0.10740623
## 1371 1.455802e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1372 -1.617851e-01 -0.3430250327 -0.21141009 4.25504183 -0.10740623
## 1373 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1374 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1375 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1376 -1.617851e-01 1.2202864305 -0.21141009 -0.07869442 -0.10740623
## 1377 1.321003e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1378 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.69250572
## 1379 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.20383099
## 1380 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1381 2.695714e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1382 -1.617851e-01 8.1217345976 -0.21141009 -0.07869442 -0.10740623
## 1383 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1384 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1385 -1.617851e-01 -0.1905068412 -0.21141009 -0.07869442 -0.10740623
## 1386 -1.617851e-01 -0.3430250327 0.73845825 -0.07869442 -0.10740623
## 1387 1.941078e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1388 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1389 6.200486e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1390 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1391 1.941078e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1392 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1393 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1394 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1395 1.215884e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1396 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1397 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1398 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 1399 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1400 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1401 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1402 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1403 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1404 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1405 -1.617851e-01 1.2457061291 2.06583837 -0.07869442 -0.10740623
## 1406 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1407 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1408 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1409 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1410 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 1411 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1412 -1.617851e-01 -0.3430250327 0.06867929 -0.07869442 -0.10740623
## 1413 -1.617851e-01 5.7068632316 -0.21141009 -0.07869442 -0.10740623
## 1414 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1415 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1416 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1417 -1.617851e-01 -0.3430250327 8.48353858 -0.07869442 -0.10740623
## 1418 -1.617851e-01 0.9915091432 -0.21141009 -0.07869442 -0.10740623
## 1419 -1.617851e-01 1.3600947728 -0.21141009 -0.07869442 -0.10740623
## 1420 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1421 -1.617851e-01 0.4576954728 -0.21141009 -0.07869442 -0.10740623
## 1422 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1423 -2.698615e-02 -0.2794757863 -0.21141009 -0.07869442 -0.10740623
## 1424 -1.617851e-01 0.8517008010 -0.21141009 -0.07869442 -0.10740623
## 1425 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1426 -1.617851e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1427 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1428 1.267107e+01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1429 -1.617851e-01 -0.2794757863 -0.21141009 -0.07869442 0.16019320
## 1430 -1.617851e-01 -0.3176053341 -0.21141009 -0.07869442 -0.10740623
## 1431 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1432 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1433 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1434 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1435 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1436 6.470084e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1437 -1.617851e-01 -0.0125689511 -0.11398770 -0.07869442 -0.10740623
## 1438 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1439 -1.617851e-01 0.6229235137 -0.21141009 -0.07869442 -0.10740623
## 1440 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1441 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1442 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1443 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1444 1.024445e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1445 -1.617851e-01 -0.0125689511 -0.21141009 -0.07869442 0.24047303
## 1446 -1.617851e-01 1.2584159784 -0.21141009 -0.07869442 -0.10740623
## 1447 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1448 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1449 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1450 -1.617851e-01 -0.3430250327 -0.21141009 11.25569268 -0.10740623
## 1451 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 1.84606963
## 1452 -1.617851e-01 0.0001408982 -0.21141009 -0.07869442 -0.10740623
## 1453 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 1454 -1.617851e-01 2.5675304558 -0.21141009 -0.07869442 -0.10740623
## 1455 -1.617851e-01 3.3301214135 1.54219300 -0.07869442 -0.10740623
## 1456 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1457 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1458 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 0.29399292
## 1459 -1.617851e-01 1.1440273348 -0.21141009 -0.07869442 -0.10740623
## 1460 4.016981e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1461 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.26723298
## 1462 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1463 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1464 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1465 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1466 -1.617851e-01 -0.3430250327 1.53001520 -0.07869442 -0.10740623
## 1467 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1468 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1469 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1470 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1471 -1.617851e-01 0.0636901447 -0.21141009 -0.07869442 -0.10740623
## 1472 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1473 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1474 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1475 -1.617851e-01 0.2543378841 -0.21141009 -0.07869442 -0.10740623
## 1476 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1477 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1478 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1479 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1480 -1.617851e-01 4.9442722739 -0.21141009 -0.07869442 -0.10740623
## 1481 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1482 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1483 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1484 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1485 -1.617851e-01 -0.2667659370 -0.21141009 -0.07869442 -0.10740623
## 1486 -1.617851e-01 -0.2794757863 -0.21141009 0.14354847 -0.10740623
## 1487 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1488 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1489 4.043703e-01 0.4704053221 -0.21141009 -0.07869442 -0.10740623
## 1490 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.13343326
## 1491 -1.617851e-01 0.2289181855 -0.21141009 -0.07869442 -0.10740623
## 1492 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1493 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1494 -1.617851e-01 0.3814363771 -0.21141009 -0.07869442 -0.10740623
## 1495 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1496 -1.617851e-01 2.2243645248 1.01854764 -0.07869442 -0.10740623
## 1497 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1498 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1499 -1.617851e-01 1.1821568826 -0.21141009 -0.07869442 -0.10740623
## 1500 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 3.29110657
## 1501 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1502 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1503 -1.617851e-01 0.8135712531 -0.21141009 -0.07869442 2.32774861
## 1504 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1505 -1.617851e-01 0.4576954728 2.11454957 -0.07869442 -0.10740623
## 1506 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1507 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1508 -1.617851e-01 2.2497842234 -0.21141009 -0.07869442 -0.10740623
## 1509 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1510 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1511 -1.617851e-01 0.5212447193 -0.21141009 -0.07869442 -0.10740623
## 1512 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1513 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1514 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1515 -1.617851e-01 2.1226857305 2.15108297 -0.07869442 -0.10740623
## 1516 -1.617851e-01 0.7373121573 -0.21141009 -0.07869442 -0.10740623
## 1517 -1.617851e-01 1.0677682390 -0.21141009 -0.07869442 -0.10740623
## 1518 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1519 -1.617851e-01 1.1058977869 -0.21141009 -0.07869442 -0.10740623
## 1520 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1521 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1522 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1523 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1524 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1525 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 -0.10740623
## 1526 -1.617851e-01 1.8430690460 1.88317138 -0.07869442 -0.10740623
## 1527 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1528 -1.617851e-01 0.8389909517 -0.21141009 -0.07869442 -0.10740623
## 1529 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623
## 1530 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1531 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1532 -1.617851e-01 0.2162083362 0.32441308 -0.07869442 -0.10740623
## 1533 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1534 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1535 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1536 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1537 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1538 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1539 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1540 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1541 1.213164e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1542 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1543 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1544 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1545 -1.617851e-01 0.6102136644 -0.21141009 -0.07869442 -0.10740623
## 1546 -1.617851e-01 1.5507425122 -0.21141009 -0.07869442 -0.10740623
## 1547 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1548 -1.617851e-01 0.0763999940 -0.21141009 -0.07869442 -0.10740623
## 1549 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1550 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1551 -1.617851e-01 -0.3430250327 0.48272447 -0.07869442 -0.10740623

```

```

## 1552 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1553 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 13.27256541
## 1554 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1555 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1556 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1557 -1.617851e-01 0.2670477334 -0.21141009 -0.07869442 -0.10740623
## 1558 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1559 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1560 -1.617851e-01 0.4831151714 -0.21141009 -0.07869442 -0.10740623
## 1561 -1.617851e-01 -0.3430250327 1.16468123 -0.07869442 -0.10740623
## 1562 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1563 -1.617851e-01 -0.0634083482 -0.21141009 -0.07869442 -0.10740623
## 1564 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1565 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1566 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1567 -1.617851e-01 0.0382704461 -0.21141009 -0.07869442 -0.10740623
## 1568 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1569 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1570 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1571 7.278877e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1572 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1573 -2.698615e-02 -0.0506984989 -0.18705449 -0.07869442 -0.10740623
## 1574 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1575 -1.617851e-01 0.7881515545 -0.21141009 -0.07869442 -0.10740623
## 1576 -1.617851e-01 1.0931879376 -0.21141009 -0.07869442 -0.10740623
## 1577 2.156519e-01 -0.1650871426 -0.21141009 -0.07869442 -0.10740623
## 1578 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1579 -1.617851e-01 -0.3430250327 3.19837370 -0.07869442 -0.10740623
## 1580 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1581 1.078128e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623
## 1582 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1583 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1584 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 6.74313925
## 1585 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1586 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1587 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1588 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1589 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1590 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1591 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1592 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1593 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1594 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1595 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1596 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1597 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1598 -1.617851e-01 0.5593742672 0.65321366 -0.07869442 -0.10740623
## 1599 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1600 -1.617851e-01 3.8893547824 -0.21141009 -0.07869442 -0.10740623
## 1601 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1602 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1603 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1604 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1605 -1.617851e-01 0.1018196926 -0.21141009 -0.07869442 -0.10740623

```

```

## 1606 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1607 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1608 -1.617851e-01 0.5847939658 -0.21141009 -0.07869442 -0.10740623
## 1609 8.249667e+00 3.6224479472 -0.21141009 -0.07869442 -0.10740623
## 1610 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1611 -1.617851e-01 10.2442794298 -0.21141009 -0.07869442 -0.10740623
## 1612 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1613 -1.617851e-01 -0.3430250327 0.26352408 -0.07869442 -0.10740623
## 1614 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1615 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1616 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1617 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1618 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1619 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 7.41213783
## 1620 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1621 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1622 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 6.39525999
## 1623 -1.617851e-01 0.2797575827 -0.21141009 -0.07869442 -0.10740623
## 1624 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1625 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1626 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.53483241
## 1627 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1628 3.909142e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1629 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1630 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 0.66863213
## 1631 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1632 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1633 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1634 9.004541e+00 -0.3430250327 -0.21141009 -0.07869442 1.71226992
## 1635 -1.617851e-01 0.9787992939 -0.21141009 -0.07869442 -0.10740623
## 1636 -1.617851e-01 0.3433068292 -0.21141009 -0.07869442 -0.10740623
## 1637 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 2.99674719
## 1638 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1639 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1640 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1641 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1642 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1643 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1644 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1645 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1646 -1.617851e-01 0.7754417052 -0.21141009 -0.07869442 -0.10740623
## 1647 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1648 -1.617851e-01 -0.3430250327 3.30797389 -0.07869442 -0.10740623
## 1649 -1.617851e-01 0.1653689391 0.27570188 -0.07869442 -0.10740623
## 1650 -1.617851e-01 0.6737629109 -0.21141009 -0.07869442 -0.10740623
## 1651 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1652 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1653 -1.617851e-01 0.9406697460 -0.21141009 -0.07869442 -0.10740623
## 1654 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1655 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1656 1.078128e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1657 -1.617851e-01 3.2792820163 -0.21141009 -0.07869442 -0.10740623
## 1658 -1.617851e-01 0.6229235137 0.09303489 -0.07869442 -0.10740623
## 1659 -1.617851e-01 -0.2159265398 -0.21141009 -0.07869442 -0.10740623

```



```

## 1660 -1.617851e-01 -0.3430250327 -0.21141009 21.14550102 -0.10740623
## 1661 -1.617851e-01 1.6015819094 3.52717428 -0.07869442 -0.10740623
## 1662 -1.617851e-01 0.4322757743 -0.21141009 -0.07869442 -0.10740623
## 1663 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1664 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1665 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1666 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1667 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1668 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1669 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1670 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1671 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1672 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1673 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1674 -1.617851e-01 2.4785615107 -0.21141009 -0.07869442 -0.10740623
## 1675 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1676 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1677 -1.617851e-01 1.4109341699 -0.21141009 -0.07869442 -0.10740623
## 1678 -1.617851e-01 -0.3048954848 -0.21141009 -0.07869442 -0.10740623
## 1679 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1680 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1681 -1.617851e-01 0.6102136644 -0.21141009 -0.07869442 -0.10740623
## 1682 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1683 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1684 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1685 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1686 -1.617851e-01 0.2289181855 0.33659088 -0.07869442 -0.10740623
## 1687 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1688 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1689 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1690 5.389319e-02 -0.2413462384 -0.11398770 -0.07869442 -0.10740623
## 1691 -1.617851e-01 -0.3430250327 0.70192485 -0.07869442 -0.10740623
## 1692 -1.617851e-01 -0.0379886497 -0.21141009 -0.07869442 -0.10740623
## 1693 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1694 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1695 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1696 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1697 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1698 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1699 -1.617851e-01 0.3560166785 -0.21141009 -0.07869442 -0.10740623
## 1700 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1701 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1702 1.294043e+00 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1703 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1704 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1705 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1706 -1.617851e-01 0.5085348700 -0.21141009 -0.07869442 -0.10740623
## 1707 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1708 1.347725e-01 -0.2794757863 -0.21141009 -0.07869442 0.02639349
## 1709 -1.617851e-01 -0.3430250327 0.83588065 -0.07869442 -0.10740623
## 1710 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1711 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1712 -1.617851e-01 0.1526590898 -0.21141009 -0.07869442 0.93623156
## 1713 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623

```

```

## 1714 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1715 -1.617851e-01 -0.3430250327 1.68832659 -0.07869442 -0.10740623
## 1716 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1717 -1.617851e-01 -0.0888280468 -0.21141009 -0.07869442 -0.10740623
## 1718 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1719 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1720 -1.617851e-01 2.9106963867 -0.21141009 -0.07869442 -0.10740623
## 1721 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1722 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
## 1723 -1.617851e-01 0.2924674320 -0.21141009 -0.07869442 -0.10740623
## 1724 -1.617851e-01 -0.3430250327 -0.21141009 -0.07869442 -0.10740623
##          V49          V50          V51          V52          V53
## 1  -0.155784145 2.1163728981 -0.14922208 -0.078298941 -0.333527479
## 2   0.874277910 0.8333622543 0.89455543 -0.247420916 -0.006561355
## 3  -0.028728033 -0.2224485881 -0.14922208 -0.311848335 -0.333527479
## 4  -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 5  -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 6  -0.155784145 -0.1511702190 -0.14922208 -0.311848335 -0.333527479
## 7  -0.155784145 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 8  -0.155784145 0.4279665300 -0.14922208 -0.046085231 -0.333527479
## 9  -0.155784145 -0.6011149240 -0.14922208 0.937583402 -0.333527479
## 10 -0.155784145 0.0270257038 -0.14922208 0.093124014 -0.089392773
## 11 -0.155784145 -0.6011149240 -0.14922208 2.275602842 5.059233804
## 12 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 13  0.175469291 0.3388685686 0.22025669 -0.311848335 -0.263774706
## 14 -0.155784145 0.4858802049 -0.14922208 -0.311848335 -0.333527479
## 15  0.552099910 -0.6011149240 -0.14922208 0.679873725 -0.333527479
## 16 -0.155784145 -0.6011149240 -0.14922208 0.492343916 -0.333527479
## 17  0.955956839 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 18 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 19 14.501045975 -0.6011149240 -0.14922208 -0.256624833 -0.333527479
## 20 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 21 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 22 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 23 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.333527479
## 24 -0.155784145 1.3100363476 0.12788700 -0.311848335 -0.333527479
## 25 -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 26  0.347902586 0.0715746845 -0.05685239 -0.311848335 -0.246336513
## 27 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 28 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 29 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 30 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 31 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 32 -0.155784145 0.0270257038 -0.14922208 0.340479285 -0.333527479
## 33 -0.155784145 0.7086251083 -0.14922208 0.279503334 -0.333527479
## 34 -0.155784145 0.6418016373 -0.14922208 -0.151930277 -0.333527479
## 35 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 36 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 37  1.632076866 -0.1645349132 2.57568380 -0.311848335 -0.333527479
## 38 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 39 -0.155784145 0.2141314227 -0.14922208 0.179410736 -0.067595031
## 40 -0.155784145 -0.2224485881 0.10941306 -0.206003290 -0.272493803
## 41 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 42 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

## 43	-0.155784145	2.8514310795	-0.14922208	-0.311848335	-0.333527479
## 44	-0.155784145	0.0181159076	-0.14922208	0.331275368	-0.333527479
## 45	-0.155784145	-0.6011149240	-0.14922208	0.683325194	-0.233257868
## 46	-0.155784145	0.3611430589	0.84837058	-0.063342575	-0.333527479
## 47	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 48	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 49	-0.155784145	1.0605620558	-0.14922208	-0.169187621	0.207056513
## 50	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 51	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 52	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 53	-0.155784145	-0.6011149240	-0.14922208	0.358887119	-0.333527479
## 54	-0.155784145	0.5304291856	-0.14922208	-0.311848335	-0.333527479
## 55	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 56	-0.155784145	-0.2981818553	-0.14922208	0.240386687	2.059864553
## 57	-0.155784145	-0.6011149240	-0.14922208	0.783417792	-0.333527479
## 58	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 59	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 60	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 61	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 62	-0.155784145	0.3611430589	-0.14922208	-0.063342575	-0.333527479
## 63	0.801674417	-0.6011149240	-0.14922208	-0.069095024	-0.333527479
## 64	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 65	-0.155784145	4.3482768307	-0.14922208	-0.311848335	-0.333527479
## 66	-0.155784145	0.0626648883	-0.14922208	-0.311848335	-0.333527479
## 67	-0.155784145	0.3566881609	-0.14922208	-0.188745945	-0.333527479
## 68	-0.155784145	-0.4852875742	3.01905832	-0.311848335	-0.333527479
## 69	-0.155784145	-0.2001740977	-0.14922208	0.311717044	-0.333527479
## 70	-0.155784145	-0.6011149240	1.78130446	-0.311848335	-0.333527479
## 71	0.661005149	0.6017075547	0.26644153	-0.311848335	-0.333527479
## 72	-0.155784145	0.3210489763	-0.14922208	-0.311848335	-0.333527479
## 73	-0.155784145	-0.3828249186	-0.14922208	-0.027677397	-0.119909611
## 74	-0.155784145	-0.6011149240	-0.14922208	6.079121558	-0.333527479
## 75	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 76	-0.110406962	-0.3694602244	-0.14922208	-0.300343439	0.394517092
## 77	0.497647291	0.2542255053	0.73752696	-0.311848335	-0.333527479
## 78	-0.155784145	-0.2714524669	2.59415774	-0.311848335	-0.333527479
## 79	-0.155784145	-0.6011149240	-0.14922208	0.827136398	-0.333527479
## 80	-0.155784145	-0.2536328746	-0.14922208	0.185163185	1.549797399
## 81	0.093790361	-0.1110761364	-0.14922208	-0.248571406	-0.333527479
## 82	-0.155784145	0.9892836867	-0.14922208	-0.311848335	-0.333527479
## 83	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.581977670
## 84	-0.069567497	0.0092061115	-0.14922208	-0.311848335	-0.333527479
## 85	-0.155784145	-0.3026367533	-0.14922208	-0.311848335	-0.333527479
## 86	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 87	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 88	-0.155784145	-0.1378055248	0.33110032	-0.311848335	-0.333527479
## 89	-0.105869244	-0.3917347147	-0.14922208	-0.311848335	-0.233257868
## 90	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 91	-0.155784145	0.2854097918	-0.14922208	-0.311848335	-0.333527479
## 92	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 93	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 94	-0.155784145	-0.6011149240	0.83913362	-0.311848335	-0.333527479
## 95	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 96	-0.155784145	-0.0620722576	-0.14922208	0.075866670	-0.098111870

```

## 97 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 98 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 99 -0.155784145 -0.1689898113 -0.14922208 0.330124878 -0.228898320
## 100 -0.155784145 -0.6011149240 -0.14922208 0.006837292 -0.333527479
## 101 -0.155784145 -0.4674679819 -0.14922208 -0.136973912 -0.333527479
## 102 -0.155784145 0.3076842821 -0.14922208 0.393401808 0.664809088
## 103 -0.155784145 -0.6011149240 -0.14922208 -0.047235721 0.669168636
## 104 -0.155784145 1.9114475870 -0.14922208 -0.311848335 -0.333527479
## 105 -0.155784145 -0.6011149240 -0.14922208 0.006837292 -0.333527479
## 106 -0.155784145 -0.1021663402 -0.14922208 0.891563817 -0.172224191
## 107 -0.155784145 -0.0798918499 -0.14922208 -0.311848335 -0.146066901
## 108 -0.155784145 -0.1422604228 -0.14922208 -0.311848335 -0.333527479
## 109 -0.155784145 -0.6011149240 -0.14922208 0.472785592 1.153078501
## 110 -0.155784145 0.1072138690 -0.14922208 0.239236197 -0.333527479
## 111 16.506717465 -0.6011149240 -0.14922208 -0.242818958 -0.333527479
## 112 -0.155784145 -0.6011149240 -0.14922208 0.225430322 -0.333527479
## 113 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 114 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 115 -0.155784145 -0.6011149240 0.54355061 -0.009269563 -0.006561355
## 116 -0.155784145 -0.6011149240 -0.14922208 -0.242818958 -0.333527479
## 117 -0.155784145 -0.6011149240 -0.14922208 0.363489077 -0.333527479
## 118 -0.155784145 -0.3739151224 -0.14922208 -0.073696982 0.568899025
## 119 -0.155784145 1.9114475870 -0.14922208 -0.311848335 -0.333527479
## 120 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 13.878600075
## 121 -0.155784145 1.3055814496 -0.14922208 -0.311848335 -0.333527479
## 122 -0.155784145 -0.6011149240 -0.14922208 0.565975252 -0.333527479
## 123 0.388742051 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 124 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 125 -0.155784145 1.0293777693 -0.14922208 -0.311848335 -0.333527479
## 126 -0.155784145 0.2007667285 -0.14922208 -0.311848335 -0.333527479
## 127 -0.155784145 -0.3471857340 -0.14922208 -0.246270427 0.411955285
## 128 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 129 -0.155784145 -0.6011149240 2.73271228 -0.311848335 -0.333527479
## 130 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 131 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 132 -0.155784145 -0.2135387920 -0.14922208 -0.211755738 -0.333527479
## 133 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 134 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 135 0.062026333 0.9090955214 -0.14922208 -0.256624833 -0.333527479
## 136 3.324645794 -0.4362836954 -0.14922208 6.407011102 5.381840380
## 137 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 138 -0.155784145 0.4769704087 -0.14922208 -0.311848335 -0.333527479
## 139 -0.155784145 0.1740373401 -0.14922208 -0.311848335 -0.333527479
## 140 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 141 -0.155784145 -0.6011149240 -0.14922208 1.049180897 0.769438248
## 142 0.375128896 -0.0798918499 -0.14922208 -0.311848335 -0.333527479
## 143 -0.055954343 -0.5031071664 0.02628034 -0.286537564 -0.237617416
## 144 -0.155784145 -0.6011149240 -0.14922208 -0.116265098 0.407595737
## 145 -0.155784145 -0.3293661417 -0.14922208 -0.303794908 0.098067805
## 146 -0.155784145 -0.1823545055 0.28491547 -0.203702310 -0.333527479
## 147 0.438656953 0.3299587725 -0.14922208 -0.311848335 -0.163505095
## 148 -0.087718371 0.0092061115 -0.14922208 -0.241668468 -0.333527479
## 149 -0.155784145 -0.6011149240 -0.14922208 1.165380349 -0.333527479
## 150 -0.087718371 -0.3917347147 0.13712397 -0.020774459 -0.198381481

```

```

## 151 -0.069567497 -0.3694602244 0.45118091 0.163303882 0.381438447
## 152 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.076270063
## 153 -0.155784145 0.9135504195 -0.14922208 -0.116265098 -0.333527479
## 154 -0.155784145 -0.3204563456 -0.14922208 -0.268129730 -0.333527479
## 155 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 156 -0.155784145 -0.6011149240 -0.14922208 0.161002902 -0.333527479
## 157 -0.155784145 0.0359354999 0.28491547 -0.092104816 0.289887932
## 158 -0.155784145 -0.6011149240 -0.14922208 0.658014422 -0.333527479
## 159 -0.155784145 -0.6011149240 -0.14922208 0.231182770 0.224494707
## 160 -0.155784145 0.0893942767 -0.14922208 -0.311848335 -0.333527479
## 161 -0.155784145 -0.5342914529 -0.14922208 -0.203702310 -0.268134255
## 162 1.455105853 0.9803738905 -0.14922208 0.506149791 -0.333527479
## 163 -0.033265751 -0.4808326761 -0.14922208 0.192066122 0.499146251
## 164 -0.155784145 -0.0977114422 -0.14922208 -0.311848335 -0.333527479
## 165 -0.155784145 -0.0709820537 -0.14922208 -0.311848335 -0.333527479
## 166 -0.001501723 -0.2447230784 -0.14922208 -0.311848335 -0.333527479
## 167 -0.155784145 -0.6011149240 -0.14922208 1.242463154 -0.333527479
## 168 -0.155784145 1.1407502210 -0.14922208 -0.311848335 -0.333527479
## 169 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 170 -0.155784145 0.7041702103 -0.14922208 -0.311848335 -0.333527479
## 171 0.334289432 0.3611430589 0.41423304 -0.258925812 -0.202741030
## 172 -0.155784145 0.9580994002 -0.14922208 -0.311848335 1.192314436
## 173 0.742684079 1.7555261545 2.89897772 -0.084051389 -0.333527479
## 174 -0.069567497 1.0338326674 -0.14922208 -0.089803837 -0.333527479
## 175 -0.155784145 1.3813147168 -0.14922208 -0.079449430 0.193977868
## 176 0.334289432 -0.1199859325 -0.14922208 -0.311848335 0.137303740
## 177 -0.155784145 1.0917463423 -0.14922208 -0.311848335 -0.333527479
## 178 -0.155784145 0.7264447006 0.39575910 -0.243969447 -0.333527479
## 179 -0.155784145 0.0626648883 -0.14922208 0.949088299 -0.333527479
## 180 -0.155784145 0.4235116319 -0.14922208 0.540664480 1.000494309
## 181 -0.155784145 0.2007667285 -0.14922208 -0.311848335 -0.333527479
## 182 -0.155784145 -0.1021663402 -0.14922208 -0.311848335 -0.333527479
## 183 -0.155784145 0.4279665300 -0.14922208 0.545266439 1.009213406
## 184 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 185 -0.155784145 -0.5120169626 -0.14922208 0.093124014 -0.246336513
## 186 1.731906669 1.2521226728 -0.14922208 -0.311848335 -0.333527479
## 187 -0.155784145 1.0338326674 0.69134211 -0.311848335 -0.333527479
## 188 -0.155784145 0.8066328658 -0.14922208 -0.311848335 -0.333527479
## 189 -0.074105216 0.1562177478 -0.14922208 -0.006968584 0.241932900
## 190 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 191 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 192 -0.155784145 0.0225708057 -0.14922208 -0.311848335 -0.333527479
## 193 1.073937515 2.7534233220 0.95921421 -0.311848335 -0.333527479
## 194 1.042173487 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 195 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 196 -0.155784145 0.4636057145 0.58049848 -0.128920484 -0.333527479
## 197 -0.155784145 4.0631633543 -0.14922208 -0.311848335 -0.333527479
## 198 -0.155784145 -0.2358132823 -0.14922208 -0.288838543 -0.333527479
## 199 -0.155784145 0.1205785632 -0.14922208 -0.311848335 -0.333527479
## 200 -0.155784145 -0.3650053263 -0.14922208 -0.311848335 -0.333527479
## 201 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 202 -0.155784145 0.4146018358 -0.14922208 -0.260076302 -0.333527479
## 203 -0.155784145 0.1606726458 -0.14922208 -0.311848335 -0.333527479
## 204 0.851589318 -0.6011149240 -0.14922208 0.198969060 1.279505402

```

## 205	-0.024190314	0.0537550922	0.11865003	-0.177241049	-0.080673676
## 206	-0.155784145	-0.1556251171	-0.14922208	-0.196799372	-0.333527479
## 207	-0.155784145	2.4816745398	-0.14922208	-0.311848335	-0.333527479
## 208	-0.110406962	-0.3694602244	-0.14922208	-0.300343439	0.394517092
## 209	-0.155784145	-0.2179936900	-0.14922208	1.374769462	0.791235990
## 210	-0.155784145	-0.3516406321	-0.14922208	-0.311848335	-0.333527479
## 211	-0.155784145	-0.6011149240	-0.14922208	0.559072314	-0.333527479
## 212	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 213	-0.155784145	-0.6011149240	-0.14922208	0.247289625	-0.333527479
## 214	-0.155784145	-0.2224485881	0.10941306	-0.197949862	-0.272493803
## 215	-0.155784145	-0.6011149240	-0.14922208	-0.072546492	-0.333527479
## 216	-0.155784145	0.4947900010	-0.14922208	-0.311848335	-0.333527479
## 217	-0.155784145	0.4680606126	-0.14922208	-0.035730824	-0.333527479
## 218	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 219	-0.155784145	0.5794330643	-0.14922208	-0.311848335	-0.333527479
## 220	-0.155784145	-0.6011149240	-0.14922208	-0.256624833	-0.124269160
## 221	-0.155784145	1.4793224743	-0.14922208	0.010288761	0.477348510
## 222	-0.155784145	0.1695824420	-0.14922208	0.220828363	-0.333527479
## 223	-0.155784145	-0.3650053263	-0.14922208	0.913423120	-0.333527479
## 224	-0.155784145	-0.1333506267	-0.14922208	-0.311848335	0.350921608
## 225	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 226	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 227	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 228	-0.074105216	-0.0264330731	0.70057908	-0.291139522	-0.333527479
## 229	-0.155784145	0.5437938798	-0.14922208	-0.311848335	-0.333527479
## 230	0.043875460	0.0626648883	-0.01990451	-0.311848335	-0.333527479
## 231	-0.155784145	-0.6011149240	-0.14922208	-0.169187621	-0.333527479
## 232	-0.155784145	-0.1556251171	-0.14922208	0.120735765	-0.115550063
## 233	-0.155784145	-0.2981818553	-0.14922208	0.068963732	3.110515701
## 234	-0.155784145	-0.1734447093	-0.14922208	-0.311848335	-0.333527479
## 235	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 236	0.012111432	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 237	-0.155784145	0.1829471362	0.66363120	-0.311848335	-0.333527479
## 238	-0.155784145	-0.2135387920	-0.14922208	-0.311848335	-0.333527479
## 239	-0.155784145	-0.2402681804	-0.14922208	-0.311848335	-0.333527479
## 240	-0.155784145	-0.0665271557	-0.14922208	-0.173789580	-0.333527479
## 241	0.393279770	0.1205785632	0.22025669	-0.311848335	-0.263774706
## 242	-0.101331526	-0.2536328746	-0.14922208	0.197818571	1.889842169
## 243	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 244	-0.155784145	2.7356037297	-0.14922208	0.118434786	-0.333527479
## 245	-0.155784145	0.2453157092	-0.14922208	-0.093255306	1.323100886
## 246	-0.155784145	-0.6011149240	-0.14922208	-0.109362161	-0.333527479
## 247	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 248	-0.155784145	-0.0041585827	-0.14922208	-0.002366625	-0.333527479
## 249	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.067550967
## 250	0.474958699	0.6418016373	-0.14922208	-0.311848335	-0.333527479
## 251	-0.155784145	-0.3739151224	-0.14922208	-0.073696982	0.568899025
## 252	-0.155784145	0.1651275439	-0.14922208	0.133391151	-0.333527479
## 253	-0.155784145	-0.6011149240	37.54684874	-0.311848335	-0.333527479
## 254	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 255	0.093790361	0.8868210311	-0.14922208	-0.248571406	-0.333527479
## 256	-0.155784145	-0.6011149240	-0.14922208	-0.159983704	-0.333527479
## 257	-0.155784145	-0.2269034862	0.10941306	-0.199100352	-0.272493803
## 258	-0.155784145	0.2230412188	-0.14922208	0.114983317	-0.067595031

## 259	0.057488615	0.0983040729	-0.14922208	-0.311848335	0.006517290
## 260	0.275299094	0.0359354999	-0.14922208	0.072415201	0.429393478
## 261	-0.155784145	-0.2892720591	-0.14922208	-0.070245513	-0.333527479
## 262	-0.155784145	1.3189461438	-0.14922208	-0.311848335	-0.333527479
## 263	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 264	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 265	-0.155784145	0.2809548937	-0.14922208	-0.197949862	-0.333527479
## 266	-0.155784145	0.3433234667	-0.14922208	0.175959268	1.514921012
## 267	-0.105869244	-0.3917347147	-0.14922208	-0.311848335	-0.233257868
## 268	-0.155784145	-0.6011149240	-0.14922208	1.930455953	-0.333527479
## 269	-0.155784145	-0.3605504282	3.11142801	-0.311848335	-0.333527479
## 270	-0.155784145	0.0893942767	-0.14922208	-0.311848335	-0.333527479
## 271	-0.155784145	0.2542255053	1.26403419	-0.311848335	-0.333527479
## 272	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 273	-0.155784145	0.5794330643	-0.14922208	-0.159983704	-0.333527479
## 274	-0.155784145	1.0204679732	-0.14922208	0.526858605	0.193977868
## 275	-0.155784145	0.3076842821	-0.14922208	-0.135823422	0.333483415
## 276	-0.155784145	-0.6011149240	-0.14922208	0.011439250	-0.333527479
## 277	-0.155784145	1.4347734936	-0.14922208	0.021793657	-0.333527479
## 278	-0.155784145	-0.6011149240	-0.14922208	0.163303882	-0.333527479
## 279	-0.155784145	-0.5476561471	-0.14922208	0.990505925	0.002157742
## 280	-0.155784145	1.0338326674	-0.14922208	-0.311848335	-0.333527479
## 281	-0.155784145	-0.6011149240	-0.14922208	1.281579802	-0.333527479
## 282	-0.155784145	0.4680606126	-0.14922208	1.718765861	1.763415267
## 283	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 284	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 285	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 286	-0.155784145	-0.6011149240	-0.14922208	0.968646622	0.878426956
## 287	-0.155784145	-0.1868094035	1.56885417	0.331275368	0.882786504
## 288	-0.155784145	-0.2759073649	-0.14922208	0.365790056	0.948179729
## 289	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.355281157
## 290	-0.155784145	1.8847181985	-0.14922208	-0.311848335	-0.333527479
## 291	-0.155784145	2.9316192448	-0.14922208	-0.311848335	-0.333527479
## 292	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.172180127
## 293	-0.083180652	-0.3872798166	0.14636093	-0.016172501	-0.194021933
## 294	-0.155784145	-0.0531624615	-0.14922208	-0.311848335	-0.333527479
## 295	-0.155784145	-0.6011149240	-0.14922208	0.557921825	-0.333527479
## 296	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 297	-0.155784145	-0.6011149240	-0.14922208	0.415261111	-0.333527479
## 298	-0.155784145	-0.0397977673	-0.14922208	-0.276183157	5.198739351
## 299	-0.155784145	-0.5832953317	-0.14922208	-0.188745945	-0.259415158
## 300	-0.155784145	-0.3070916514	-0.14922208	0.335877326	0.385797995
## 301	-0.155784145	1.1452051191	-0.14922208	3.522733600	-0.333527479
## 302	-0.155784145	-0.2892720591	-0.14922208	-0.311848335	0.281168835
## 303	0.252610502	0.6106173508	0.68210514	-0.311848335	-0.333527479
## 304	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 305	0.107403516	0.0448452960	-0.14922208	-0.211755738	-0.333527479
## 306	0.425043798	-0.4140092051	-0.14922208	-0.311848335	-0.333527479
## 307	-0.155784145	0.1695824420	-0.14922208	0.110381359	0.507865348
## 308	-0.155784145	-0.6011149240	-0.14922208	0.111531848	-0.333527479
## 309	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 310	-0.155784145	-0.6011149240	-0.14922208	0.269148928	-0.333527479
## 311	-0.155784145	-0.0620722576	-0.14922208	0.946787319	-0.333527479
## 312	-0.155784145	0.2274961169	-0.14922208	-0.311848335	-0.333527479

```

## 313 2.771044161 1.9871808541 -0.14922208 -0.163435173 -0.333527479
## 314 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 315 -0.155784145 -0.6011149240 -0.14922208 -0.191046924 1.039730244
## 316 0.198157882 0.1606726458 0.13712397 -0.311848335 -0.198381481
## 317 -0.155784145 -0.1778996074 -0.14922208 0.660315402 0.778157345
## 318 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 319 -0.155784145 -0.1199859325 -0.14922208 -0.229013082 -0.333527479
## 320 0.488571854 3.2078229250 -0.14922208 0.016041209 -0.333527479
## 321 -0.155784145 -0.3070916514 -0.14922208 -0.311848335 -0.333527479
## 322 -0.155784145 1.0872914442 -0.14922208 -0.311848335 -0.333527479
## 323 -0.155784145 -0.0219781750 -0.14922208 0.286406272 -0.333527479
## 324 -0.155784145 -0.3204563456 -0.14922208 0.141444579 0.163461030
## 325 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 326 -0.155784145 -0.2625426707 -0.14922208 1.190691121 0.669168636
## 327 -0.155784145 0.3878724474 0.35881122 -0.311848335 -0.333527479
## 328 -0.155784145 -0.6011149240 -0.14922208 0.235784728 -0.333527479
## 329 0.801674417 -0.6011149240 -0.14922208 -0.069095024 -0.333527479
## 330 -0.155784145 1.5283263530 -0.14922208 -0.311848335 -0.333527479
## 331 -0.155784145 0.0626648883 -0.14922208 0.118434786 -0.076314128
## 332 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 333 -0.155784145 1.2298481824 -0.14922208 0.753505062 -0.333527479
## 334 -0.155784145 1.0115581770 -0.14922208 -0.311848335 -0.333527479
## 335 1.210069064 -0.4095543070 0.24796759 -0.311848335 0.041393677
## 336 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 337 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 338 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 339 -0.155784145 1.9069926889 -0.14922208 -0.311848335 -0.333527479
## 340 -0.155784145 -0.1066212383 -0.14922208 -0.311848335 0.390157543
## 341 -0.155784145 -0.6011149240 -0.14922208 -0.286537564 -0.237617416
## 342 -0.155784145 0.1161236652 -0.14922208 0.932981444 0.969977471
## 343 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 344 -0.155784145 -0.2491779765 -0.14922208 -0.311848335 -0.333527479
## 345 -0.155784145 0.1784922381 -0.14922208 0.041351981 0.429393478
## 346 0.098328080 0.6462565354 1.40258873 -0.247420916 -0.333527479
## 347 0.792598980 0.1027589709 0.31262638 -0.311848335 -0.272493803
## 348 -0.155784145 -0.1066212383 -0.14922208 0.263396479 1.118202114
## 349 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 350 -0.155784145 -0.6011149240 13.23514612 -0.311848335 -0.333527479
## 351 -0.155784145 0.4858802049 -0.14922208 -0.311848335 -0.333527479
## 352 -0.155784145 -0.6011149240 1.11624269 0.163303882 -0.333527479
## 353 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 354 1.368889205 2.0183651406 1.40258873 -0.311848335 -0.333527479
## 355 -0.155784145 1.7555261545 -0.14922208 -0.311848335 -0.333527479
## 356 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 357 -0.155784145 -0.0977114422 -0.14922208 -0.279634626 0.032674580
## 358 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 359 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.076270063
## 360 -0.155784145 -0.1511702190 -0.14922208 -0.311848335 -0.333527479
## 361 -0.155784145 0.3611430589 -0.14922208 -0.063342575 -0.333527479
## 362 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 363 -0.155784145 1.4704126781 -0.14922208 -0.311848335 -0.333527479
## 364 -0.155784145 -0.6011149240 -0.14922208 0.526858605 -0.333527479
## 365 -0.155784145 -0.1467153209 1.73511962 -0.194498393 -0.333527479
## 366 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479

```



```

## 367 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 368 -0.155784145 0.0047512134 -0.14922208 0.002235333 -0.333527479
## 369 0.189082446 0.2809548937 0.12788700 -0.311848335 -0.202741030
## 370 -0.083180652 0.0582099903 -0.14922208 -0.273882178 -0.263774706
## 371 -0.155784145 -0.5253816568 -0.14922208 -0.311848335 -0.333527479
## 372 -0.155784145 0.0002963154 -0.14922208 -0.234765530 -0.333527479
## 373 -0.155784145 0.2052216265 0.68210514 -0.103609712 -0.333527479
## 374 -0.155784145 1.1407502210 -0.14922208 -0.311848335 -0.333527479
## 375 -0.155784145 -0.3560955302 -0.14922208 -0.311848335 -0.333527479
## 376 -0.155784145 -0.4229190012 -0.14922208 -0.311848335 -0.333527479
## 377 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 378 -0.155784145 -0.4140092051 -0.14922208 -0.239367489 -0.333527479
## 379 -0.155784145 -0.2447230784 -0.14922208 -0.034580335 0.132944192
## 380 -0.155784145 -0.6011149240 -0.14922208 3.816108456 -0.333527479
## 381 -0.155784145 1.0160130751 -0.14922208 -0.103609712 -0.333527479
## 382 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 383 -0.155784145 -0.6011149240 -0.14922208 0.305964596 -0.333527479
## 384 -0.155784145 -0.6011149240 -0.14922208 0.137993110 0.233213803
## 385 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 386 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.067595031
## 387 -0.155784145 0.0671197864 -0.14922208 -0.311848335 -0.333527479
## 388 -0.155784145 -0.6011149240 -0.14922208 1.089448034 0.804314635
## 389 -0.155784145 -0.1422604228 -0.14922208 -0.193347904 -0.333527479
## 390 -0.155784145 -0.6011149240 -0.14922208 -0.117415588 -0.333527479
## 391 -0.155784145 -0.1021663402 -0.14922208 -0.311848335 0.398876640
## 392 3.061458132 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 393 -0.155784145 -0.2669975688 -0.14922208 1.171132797 0.324764318
## 394 -0.155784145 -0.2447230784 -0.14922208 0.429066986 0.368359802
## 395 -0.155784145 -0.6011149240 -0.14922208 0.510751750 -0.333527479
## 396 -0.155784145 -0.6011149240 -0.14922208 -0.047235721 0.669168636
## 397 -0.155784145 0.4101469377 1.94756991 -0.311848335 -0.333527479
## 398 -0.155784145 -0.6011149240 -0.14922208 0.096575483 0.180899223
## 399 -0.037803469 -0.1868094035 -0.14922208 -0.296891970 0.189618320
## 400 -0.110406962 3.9874300871 -0.14922208 -0.311848335 6.689704879
## 401 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 402 0.016649150 0.2453157092 -0.14922208 -0.309547356 -0.311729738
## 403 -0.155784145 -0.6011149240 -0.14922208 0.121886255 -0.333527479
## 404 0.520335882 0.2854097918 0.30338941 -0.111663140 -0.333527479
## 405 -0.155784145 0.1339432574 -0.14922208 0.258794521 -0.333527479
## 406 -0.155784145 -0.2580877726 0.44194395 0.088522056 0.115505998
## 407 -0.155784145 0.8556367446 -0.14922208 0.064361773 1.092044824
## 408 -0.155784145 0.2898646898 -0.14922208 0.609693858 -0.333527479
## 409 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 410 -0.155784145 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 411 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.555820380
## 412 -0.155784145 -0.6011149240 -0.14922208 0.721291352 0.124225095
## 413 0.093790361 -0.1110761364 -0.14922208 -0.248571406 -0.333527479
## 414 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 415 -0.155784145 -0.6011149240 -0.14922208 -0.172639090 -0.333527479
## 416 -0.155784145 0.8021779678 -0.14922208 -0.311848335 -0.333527479
## 417 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 418 -0.155784145 0.4324214281 -0.14922208 -0.178391538 -0.333527479
## 419 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 420 -0.155784145 -0.6011149240 -0.14922208 0.126488213 -0.058875935

```

```

## 421 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 422 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 423 -0.155784145 -0.1333506267 -0.14922208 0.901918224 -0.333527479
## 424 -0.155784145 -0.4140092051 -0.14922208 -0.311848335 -0.333527479
## 425 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 426 -0.155784145 -0.1244408306 -0.14922208 -0.017322990 0.721483216
## 427 -0.155784145 -0.6011149240 -0.14922208 0.539513991 -0.333527479
## 428 -0.155784145 -0.0843467480 -0.14922208 1.568051720 0.342202512
## 429 -0.155784145 0.3388685686 -0.14922208 -0.069095024 -0.333527479
## 430 -0.155784145 -0.2179936900 -0.14922208 -0.311848335 -0.333527479
## 431 -0.155784145 -0.4095543070 -0.14922208 -0.311848335 -0.146066901
## 432 2.771044161 1.9871808541 -0.14922208 -0.163435173 -0.333527479
## 433 -0.155784145 0.4546959184 -0.14922208 -0.311848335 -0.333527479
## 434 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 435 -0.155784145 0.2631353014 -0.14922208 -0.311848335 1.362336821
## 436 -0.155784145 -0.6011149240 -0.14922208 1.010064249 -0.333527479
## 437 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 438 0.057488615 0.1072138690 0.13712397 -0.311848335 -0.198381481
## 439 -0.155784145 0.5749781663 -0.14922208 -0.311848335 -0.333527479
## 440 -0.155784145 1.6575183970 -0.14922208 -0.311848335 -0.333527479
## 441 -0.155784145 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 442 -0.155784145 -0.0531624615 -0.14922208 -0.170338111 -0.333527479
## 443 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 444 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 445 0.093790361 0.8868210311 -0.14922208 -0.248571406 -0.333527479
## 446 -0.155784145 1.6129694163 0.99616209 -0.311848335 -0.333527479
## 447 -0.155784145 -0.3739151224 -0.14922208 -0.311848335 -0.333527479
## 448 -0.155784145 -0.3516406321 -0.14922208 0.796073178 0.159101482
## 449 0.270761375 0.2408608111 2.47407714 0.449775799 -0.333527479
## 450 -0.155784145 -0.6011149240 6.78774170 -0.311848335 -0.333527479
## 451 -0.155784145 -0.3471857340 -0.14922208 -0.202551821 -0.333527479
## 452 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 453 -0.155784145 -0.3160014475 -0.14922208 -0.164585663 -0.333527479
## 454 -0.155784145 0.6418016373 -0.14922208 0.865102556 0.071910515
## 455 -0.155784145 -0.6011149240 -0.14922208 0.939884382 -0.333527479
## 456 -0.155784145 0.7130800064 -0.14922208 -0.311848335 -0.333527479
## 457 -0.155784145 0.9224602156 -0.14922208 -0.311848335 -0.333527479
## 458 -0.155784145 -0.3516406321 -0.14922208 -0.148478808 -0.023999548
## 459 -0.155784145 -0.4184641031 -0.14922208 -0.071396003 0.577618121
## 460 -0.155784145 -0.6011149240 -0.14922208 1.800450625 -0.333527479
## 461 -0.155784145 2.2812041267 -0.14922208 -0.311848335 -0.333527479
## 462 0.034800024 0.1695824420 -0.13074814 -0.302644418 -0.311729738
## 463 -0.155784145 0.5437938798 -0.14922208 0.378445442 1.536718754
## 464 -0.155784145 2.6465057683 -0.14922208 0.526858605 -0.333527479
## 465 -0.155784145 -0.6011149240 -0.14922208 1.256269030 -0.333527479
## 466 -0.155784145 -0.6011149240 -0.14922208 0.074716180 -0.333527479
## 467 -0.155784145 -0.3026367533 0.05399124 -0.311848335 -0.333527479
## 468 -0.155784145 0.5304291856 -0.14922208 -0.239367489 0.220135158
## 469 1.400653233 -0.6011149240 1.43029964 -0.311848335 -0.333527479
## 470 -0.155784145 -0.4630130838 -0.14922208 0.118434786 -0.063235483
## 471 -0.155784145 0.2453157092 -0.14922208 -0.202551821 1.737257977
## 472 -0.155784145 0.5794330643 -0.14922208 -0.311848335 -0.333527479
## 473 0.007573714 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 474 -0.155784145 -0.6011149240 -0.14922208 0.311717044 0.847910118

```

## 475	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 476	-0.119482399	-0.1066212383	-0.14922208	-0.309547356	-0.333527479
## 477	-0.155784145	0.0136610096	-0.14922208	-0.258925812	-0.333527479
## 478	0.924192811	1.3724049206	0.47889182	-0.311848335	-0.333527479
## 479	-0.155784145	-0.6011149240	6.21504962	-0.311848335	-0.333527479
## 480	-0.155784145	-0.1244408306	-0.14922208	0.042502470	-0.041437741
## 481	-0.155784145	-0.2358132823	-0.14922208	0.186313674	1.972673587
## 482	-0.155784145	-0.6011149240	-0.14922208	0.362338588	-0.333527479
## 483	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.150382385
## 484	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 485	-0.155784145	-0.0798918499	-0.14922208	-0.311848335	-0.146066901
## 486	-0.155784145	-0.0130683788	-0.14922208	-0.024225928	0.643011346
## 487	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 488	-0.155784145	0.0314806018	-0.14922208	0.579781128	0.643011346
## 489	-0.155784145	-0.6011149240	-0.14922208	-0.038031804	-0.333527479
## 490	-0.155784145	0.2096765246	0.69134211	-0.207153779	-0.333527479
## 491	-0.155784145	0.3611430589	-0.14922208	-0.125469015	-0.333527479
## 492	1.055786642	2.9717133274	0.94074028	-0.311848335	-0.333527479
## 493	-0.155784145	-0.1199859325	-0.14922208	-0.311848335	0.372719350
## 494	-0.155784145	0.4858802049	-0.14922208	1.564600251	0.730202313
## 495	0.733608642	-0.1645349132	-0.14922208	-0.199100352	-0.333527479
## 496	-0.155784145	0.0626648883	-0.14922208	-0.140425381	-0.333527479
## 497	-0.155784145	0.0270257038	-0.14922208	0.177109757	0.281168835
## 498	-0.155784145	-0.6011149240	-0.14922208	-0.256624833	-0.124269160
## 499	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 500	-0.155784145	0.0270257038	-0.14922208	-0.311848335	-0.333527479
## 501	-0.155784145	-0.0397977673	-0.14922208	-0.311848335	-0.333527479
## 502	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 503	-0.155784145	-0.3917347147	-0.14922208	-0.203702310	0.180899223
## 504	-0.155784145	-0.3249112437	-0.14922208	0.687927153	0.477348510
## 505	-0.155784145	-0.6011149240	-0.14922208	0.644208547	1.139999856
## 506	0.170931573	-0.0843467480	-0.14922208	-0.095556285	-0.333527479
## 507	-0.155784145	-0.2224485881	0.10941306	-0.206003290	-0.272493803
## 508	-0.155784145	-0.6011149240	-0.14922208	2.510302726	-0.333527479
## 509	0.833438445	-0.2135387920	-0.14922208	-0.111663140	0.425033930
## 510	-0.155784145	-0.6011149240	-0.14922208	0.128789193	-0.333527479
## 511	-0.155784145	-0.3070916514	-0.14922208	-0.311848335	-0.333527479
## 512	0.057488615	0.0983040729	-0.14922208	-0.311848335	0.006517290
## 513	-0.155784145	1.7911653391	-0.14922208	-0.311848335	-0.333527479
## 514	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.852269666
## 515	-0.155784145	-0.3160014475	-0.14922208	-0.164585663	-0.333527479
## 516	0.874277910	0.8333622543	0.89455543	-0.247420916	-0.006561355
## 517	-0.155784145	-0.3739151224	-0.14922208	0.582082107	-0.333527479
## 518	-0.155784145	-0.0397977673	-0.14922208	-0.287688053	-0.333527479
## 519	0.683693741	0.0671197864	0.25720456	-0.311848335	-0.307370190
## 520	0.393279770	0.1205785632	0.22025669	-0.311848335	-0.263774706
## 521	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 522	-0.155784145	-0.1110761364	-0.14922208	0.251891583	0.355281157
## 523	-0.155784145	-0.6011149240	-0.14922208	-0.109362161	0.433753027
## 524	0.175469291	0.3388685686	0.22025669	-0.311848335	-0.263774706
## 525	-0.155784145	-0.2981818553	-0.14922208	0.240386687	2.059864553
## 526	-0.155784145	-0.1378055248	-0.14922208	-0.311848335	0.350921608
## 527	0.538486755	-0.1912643016	-0.14922208	-0.311848335	-0.333527479
## 528	0.121016671	1.4570479839	0.41423304	-0.311848335	-0.333527479

```

## 529 -0.155784145 2.7712429143 -0.14922208 -0.311848335 -0.333527479
## 530 -0.155784145 0.5705232682 -0.14922208 -0.311848335 -0.333527479
## 531 -0.155784145 -0.6011149240 -0.14922208 6.411613061 -0.333527479
## 532 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 533 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 534 0.515798164 0.0047512134 0.26644153 -0.311848335 -0.237617416
## 535 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 536 -0.155784145 -0.6011149240 -0.14922208 1.583008085 -0.333527479
## 537 1.364351486 0.8912759292 -0.14922208 0.460130206 -0.333527479
## 538 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 539 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.124269160
## 540 -0.155784145 0.2631353014 -0.14922208 0.357736629 0.935101084
## 541 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 542 0.220846474 0.1428530536 0.15559790 -0.311848335 -0.189662385
## 543 -0.155784145 -0.1110761364 -0.14922208 0.249590604 0.350921608
## 544 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 545 0.479496417 -0.6011149240 -0.14922208 0.740849676 -0.333527479
## 546 0.415968361 0.1651275439 0.37728516 -0.311848335 -0.237617416
## 547 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 548 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 549 -0.155784145 -0.3293661417 -0.14922208 -0.303794908 0.098067805
## 550 -0.155784145 1.5194165569 -0.14922208 -0.311848335 -0.333527479
## 551 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.529663090
## 552 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 553 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 554 -0.155784145 0.2720450976 -0.14922208 -0.011570542 -0.333527479
## 555 -0.155784145 -0.6011149240 -0.14922208 0.126488213 -0.058875935
## 556 -0.155784145 1.2565775708 -0.14922208 -0.151930277 -0.333527479
## 557 -0.155784145 -0.6011149240 -0.14922208 0.096575483 0.180899223
## 558 -0.155784145 1.5194165569 -0.14922208 -0.311848335 -0.333527479
## 559 -0.155784145 -0.6011149240 -0.14922208 0.847845211 -0.076314128
## 560 1.287210275 2.5930469915 1.31945601 -0.220959655 -0.333527479
## 561 -0.155784145 -0.3739151224 -0.14922208 -0.018473480 -0.002201806
## 562 -0.155784145 0.6908055161 -0.14922208 -0.311848335 -0.333527479
## 563 -0.069567497 0.5259742875 -0.14922208 -0.311848335 -0.333527479
## 564 -0.155784145 -0.6011149240 -0.14922208 1.018117677 -0.333527479
## 565 -0.155784145 0.2364059130 0.22949366 -0.311848335 -0.333527479
## 566 -0.155784145 -0.6011149240 -0.14922208 0.936432913 0.677887733
## 567 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 0.124225095
## 568 -0.155784145 -0.1868094035 -0.14922208 -0.285387074 -0.333527479
## 569 -0.155784145 -0.6011149240 -0.14922208 -0.097857264 -0.333527479
## 570 -0.155784145 -0.2714524669 2.59415774 -0.311848335 -0.333527479
## 571 1.400653233 -0.6011149240 1.43029964 -0.311848335 -0.333527479
## 572 -0.155784145 -0.2402681804 0.10017609 -0.202551821 -0.276853351
## 573 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 574 -0.155784145 -0.2714524669 2.60339471 -0.311848335 -0.333527479
## 575 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 576 0.452270107 -0.2046289958 -0.14922208 -0.311848335 -0.333527479
## 577 -0.155784145 -0.3694602244 -0.14922208 -0.311848335 -0.333527479
## 578 -0.155784145 -0.1823545055 -0.14922208 -0.257775323 -0.333527479
## 579 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 580 -0.155784145 -0.6011149240 -0.14922208 0.475086571 -0.333527479
## 581 -0.155784145 0.8645465407 -0.14922208 -0.186444966 -0.333527479
## 582 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 583 -0.155784145 -0.6011149240 -0.14922208 1.334502325 -0.333527479
## 584 -0.155784145 1.0561071577 -0.14922208 -0.311848335 -0.333527479
## 585 -0.069567497 -0.1600800151 -0.14922208 -0.209454758 0.010876839
## 586 -0.155784145 -0.2001740977 -0.14922208 -0.260076302 -0.333527479
## 587 -0.155784145 1.2343030805 -0.14922208 0.400304745 0.115505998
## 588 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 589 -0.155784145 -0.6011149240 -0.14922208 0.610844348 0.830471924
## 590 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.468629413
## 591 -0.155784145 4.9986919488 -0.14922208 -0.311848335 -0.333527479
## 592 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 593 -0.155784145 0.2542255053 -0.14922208 -0.164585663 -0.333527479
## 594 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 595 -0.155784145 0.6863506180 -0.14922208 -0.311848335 -0.333527479
## 596 -0.155784145 -0.4407385935 -0.14922208 0.862801576 0.935101084
## 597 -0.155784145 0.1339432574 -0.14922208 -0.217508186 -0.333527479
## 598 -0.155784145 -0.2447230784 -0.14922208 0.796073178 -0.333527479
## 599 -0.155784145 -0.2536328746 0.33110032 -0.311848335 -0.333527479
## 600 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 2.822785511
## 601 -0.155784145 0.4725155107 -0.14922208 0.890413328 1.065887534
## 602 -0.155784145 -0.6011149240 -0.14922208 0.238085708 -0.333527479
## 603 -0.155784145 -0.6011149240 -0.14922208 -0.070245513 -0.333527479
## 604 -0.155784145 1.1585698133 -0.14922208 -0.311848335 0.525303541
## 605 -0.155784145 -0.0576173595 -0.14922208 1.165380349 -0.333527479
## 606 -0.155784145 -0.2580877726 -0.14922208 -0.311848335 -0.333527479
## 607 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 608 -0.155784145 2.3212982093 -0.14922208 0.044803450 -0.333527479
## 609 -0.155784145 -0.3338210398 0.12788700 -0.277333647 -0.268134255
## 610 1.246370811 2.1564669808 -0.14922208 -0.311848335 -0.333527479
## 611 -0.155784145 0.5749781663 -0.14922208 -0.311848335 -0.333527479
## 612 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 613 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.124269160
## 614 -0.155784145 0.4546959184 -0.14922208 -0.311848335 -0.333527479
## 615 -0.155784145 -0.2269034862 0.10941306 -0.199100352 -0.272493803
## 616 -0.155784145 0.1383981555 -0.14922208 0.071264711 -0.333527479
## 617 0.080177207 -0.3115465495 -0.14922208 -0.311848335 -0.333527479
## 618 0.411430643 1.0694718519 -0.14922208 0.839791784 -0.333527479
## 619 0.851589318 -0.6011149240 -0.14922208 0.198969060 1.279505402
## 620 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 621 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 622 -0.155784145 -0.6011149240 0.94997724 -0.311848335 -0.333527479
## 623 -0.155784145 1.5906949260 -0.14922208 -0.311848335 -0.333527479
## 624 -0.155784145 -0.1778996074 -0.14922208 0.552169376 0.778157345
## 625 -0.155784145 -0.6011149240 -0.14922208 1.485216466 -0.333527479
## 626 0.270761375 0.2408608111 2.47407714 0.449775799 -0.333527479
## 627 -0.155784145 -0.6011149240 -0.14922208 0.316319002 -0.333527479
## 628 -0.155784145 0.5838879624 0.46041788 -0.311848335 -0.333527479
## 629 0.316138558 1.2610324689 -0.14922208 -0.071396003 -0.333527479
## 630 0.202695601 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 631 0.801674417 -0.6011149240 -0.14922208 -0.069095024 -0.333527479
## 632 -0.155784145 -0.6011149240 -0.14922208 0.539513991 -0.333527479
## 633 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 634 -0.001501723 0.4591508165 1.10700572 -0.311848335 -0.333527479
## 635 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 636 -0.155784145 -0.6011149240 1.64274993 -0.311848335 -0.333527479

```

```

## 637 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 638 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 639 -0.155784145 -0.1155310344 0.85760755 0.064361773 -0.333527479
## 640 0.397817488 0.4858802049 -0.14922208 -0.311848335 -0.333527479
## 641 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 642 -0.155784145 -0.0843467480 -0.14922208 -0.311848335 -0.333527479
## 643 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 644 0.025724587 -0.4674679819 -0.14922208 -0.031128866 -0.023999548
## 645 -0.155784145 -0.6011149240 -0.14922208 0.802976116 -0.333527479
## 646 0.343364868 0.6284369431 0.86684452 -0.248571406 -0.093752321
## 647 -0.155784145 -0.6011149240 -0.14922208 0.574028679 -0.333527479
## 648 -0.155784145 0.5571585740 -0.14922208 1.688853131 0.420674382
## 649 2.417102133 1.0828365461 -0.14922208 -0.311848335 -0.333527479
## 650 -0.155784145 0.8066328658 -0.14922208 -0.311848335 -0.333527479
## 651 -0.155784145 -0.1600800151 -0.14922208 0.722441842 -0.333527479
## 652 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 653 -0.155784145 -0.6011149240 -0.14922208 -0.097857264 -0.333527479
## 654 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 1.187954887
## 655 0.661005149 0.6017075547 0.26644153 -0.311848335 -0.333527479
## 656 1.536784782 1.0605620558 -0.14922208 0.117284296 -0.333527479
## 657 1.210069064 -0.6011149240 -0.14922208 0.034449043 -0.333527479
## 658 -0.078642934 0.0804844806 -0.14922208 -0.292290012 -0.037078193
## 659 -0.155784145 0.6997153122 -0.14922208 0.698281559 0.429393478
## 660 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 661 -0.101331526 -0.2536328746 -0.14922208 0.197818571 1.889842169
## 662 -0.155784145 -0.1199859325 -0.14922208 -0.229013082 -0.333527479
## 663 -0.155784145 -0.2669975688 -0.14922208 1.171132797 0.324764318
## 664 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 665 -0.155784145 -0.1199859325 -0.14922208 -0.311848335 -0.333527479
## 666 -0.155784145 1.3991343090 -0.14922208 -0.311848335 -0.333527479
## 667 -0.155784145 -0.6011149240 -0.14922208 0.683325194 -0.233257868
## 668 -0.155784145 0.3700528551 -0.14922208 -0.311848335 -0.333527479
## 669 -0.155784145 -0.6011149240 -0.14922208 0.972098091 0.150382385
## 670 -0.155784145 -0.0665271557 -0.14922208 -0.173789580 -0.333527479
## 671 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 672 -0.155784145 -0.6011149240 -0.14922208 0.391100828 0.817393279
## 673 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 674 -0.155784145 -0.6011149240 -0.14922208 0.361188098 -0.132988256
## 675 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 676 -0.155784145 0.1205785632 -0.14922208 0.249590604 -0.333527479
## 677 -0.155784145 0.1072138690 -0.14922208 0.239236197 -0.333527479
## 678 -0.155784145 -0.6011149240 -0.14922208 0.453227268 0.028315032
## 679 0.170931573 -0.0353428692 -0.14922208 0.169056330 0.773797796
## 680 -0.155784145 -0.6011149240 -0.14922208 0.314018023 0.002157742
## 681 -0.155784145 0.0181159076 1.13471663 -0.311848335 -0.333527479
## 682 0.425043798 0.1294883594 0.18330881 -0.311848335 -0.176583740
## 683 0.021186869 0.4457861223 -0.14922208 0.230032280 -0.333527479
## 684 -0.155784145 -0.6011149240 -0.14922208 0.096575483 0.180899223
## 685 0.824363008 -0.6011149240 -0.14922208 0.186313674 1.240269467
## 686 0.588401657 -0.1155310344 0.85760755 -0.311848335 -0.098111870
## 687 -0.155784145 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 688 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 689 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 690 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

## 691	-0.155784145	-0.5031071664	-0.14922208	0.448625310	0.050112774
## 692	-0.155784145	-0.6011149240	-0.14922208	0.316319002	-0.333527479
## 693	4.386471877	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 694	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.542741735
## 695	1.917953119	0.7086251083	-0.14922208	-0.311848335	-0.333527479
## 696	-0.015114878	-0.0353428692	0.13712397	-0.311848335	-0.333527479
## 697	-0.155784145	0.0181159076	-0.14922208	-0.311848335	-0.333527479
## 698	1.246370811	2.1564669808	-0.14922208	-0.311848335	-0.333527479
## 699	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.202696965
## 700	0.007573714	-0.1155310344	-0.14922208	-0.311848335	-0.176583740
## 701	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 702	-0.155784145	-0.1244408306	-0.14922208	-0.311848335	0.368359802
## 703	-0.155784145	0.1695824420	-0.14922208	-0.311848335	0.228854255
## 704	-0.155784145	-0.2714524669	-0.14922208	0.457829227	0.961258374
## 705	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 706	-0.155784145	0.6729859238	-0.14922208	-0.311848335	-0.333527479
## 707	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 708	-0.155784145	0.1027589709	-0.14922208	-0.220959655	-0.333527479
## 709	-0.019652596	-0.3338210398	-0.14922208	-0.311848335	-0.333527479
## 710	-0.155784145	-0.0442526653	-0.14922208	0.531460563	0.119865547
## 711	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 712	-0.155784145	-0.2759073649	-0.14922208	0.616596796	-0.333527479
## 713	-0.155784145	-0.3338210398	-0.14922208	-0.173789580	2.024988167
## 714	-0.155784145	1.2343030805	-0.14922208	0.400304745	0.115505998
## 715	0.688231459	1.7956202372	0.99616209	-0.311848335	-0.333527479
## 716	-0.155784145	4.2636337674	-0.14922208	-0.311848335	-0.333527479
## 717	-0.155784145	-0.1467153209	-0.14922208	-0.194498393	-0.333527479
## 718	-0.155784145	0.0181159076	-0.14922208	0.044803450	0.342202512
## 719	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 720	-0.155784145	1.1986638959	-0.14922208	-0.311848335	-0.333527479
## 721	0.352440305	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 722	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 723	-0.155784145	-0.0175232769	0.45118091	-0.311848335	-0.333527479
## 724	-0.155784145	1.8223496256	-0.14922208	-0.311848335	0.259371093
## 725	-0.155784145	0.5571585740	-0.14922208	1.688853131	0.420674382
## 726	-0.155784145	-0.0754369518	-0.14922208	-0.311848335	-0.333527479
## 727	0.661005149	0.6017075547	0.26644153	-0.311848335	-0.333527479
## 728	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 729	1.232757656	-0.4095543070	0.65439423	-0.110512650	-0.146066901
## 730	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 731	-0.155784145	-0.6011149240	-0.14922208	0.006837292	-0.333527479
## 732	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 733	-0.155784145	-0.6011149240	-0.14922208	-0.109362161	-0.333527479
## 734	0.184544728	-0.2669975688	-0.14922208	-0.311848335	0.324764318
## 735	-0.155784145	-0.6011149240	-0.14922208	0.055157856	0.826112376
## 736	0.243535066	-0.6011149240	-0.14922208	-0.261226792	0.241932900
## 737	-0.155784145	-0.6011149240	-0.14922208	1.151574474	0.773797796
## 738	0.048413178	0.2007667285	-0.14922208	-0.311848335	-0.333527479
## 739	-0.155784145	-0.1110761364	-0.14922208	-0.185294476	-0.333527479
## 740	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 741	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 742	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 743	-0.155784145	0.3076842821	-0.14922208	-0.135823422	0.333483415
## 744	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479

## 745	-0.155784145	0.2230412188	-0.14922208	-0.099007754	-0.067595031
## 746	-0.155784145	-0.6011149240	1.56885417	-0.311848335	-0.333527479
## 747	-0.155784145	-0.1021663402	-0.14922208	-0.311848335	3.603144662
## 748	-0.155784145	-0.6011149240	-0.14922208	-0.145027339	0.298607028
## 749	1.400653233	-0.6011149240	-0.14922208	-0.115114609	-0.333527479
## 750	-0.155784145	-0.2135387920	-0.14922208	0.697131070	-0.333527479
## 751	-0.155784145	-0.3382759379	-0.14922208	0.137993110	3.450560470
## 752	-0.155784145	-0.6011149240	0.81142271	0.288707251	-0.333527479
## 753	-0.155784145	0.0448452960	-0.14922208	-0.311848335	-0.333527479
## 754	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 755	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 756	-0.155784145	2.4460353552	-0.14922208	-0.311848335	-0.333527479
## 757	-0.155784145	0.0626648883	-0.14922208	-0.311848335	-0.333527479
## 758	-0.155784145	0.2408608111	-0.14922208	-0.311848335	-0.333527479
## 759	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.555820380
## 760	-0.155784145	-0.4407385935	-0.14922208	-0.311848335	-0.333527479
## 761	-0.155784145	-0.6011149240	-0.14922208	0.030997574	2.269122873
## 762	-0.155784145	-0.1378055248	-0.14922208	-0.311848335	0.350921608
## 763	-0.155784145	0.2809548937	-0.14922208	-0.084051389	0.529663090
## 764	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.821752828
## 765	-0.155784145	-0.1823545055	0.28491547	-0.203702310	-0.333527479
## 766	-0.155784145	-0.3427308360	-0.14922208	-0.311848335	-0.333527479
## 767	-0.155784145	-0.1021663402	-0.14922208	-0.311848335	3.603144662
## 768	-0.155784145	1.1273855268	1.64274993	-0.311848335	-0.333527479
## 769	-0.155784145	-0.6011149240	-0.14922208	0.608543368	0.438112575
## 770	-0.155784145	-0.3961896128	-0.14922208	-0.150779787	-0.333527479
## 771	-0.155784145	-0.6011149240	-0.14922208	-0.112813630	-0.333527479
## 772	-0.155784145	-0.6011149240	0.83913362	-0.311848335	-0.333527479
## 773	1.246370811	2.1564669808	-0.14922208	-0.311848335	-0.333527479
## 774	-0.155784145	0.5126095933	-0.14922208	-0.311848335	-0.333527479
## 775	-0.155784145	0.3655979570	2.52949896	-0.311848335	-0.333527479
## 776	0.279836812	0.4413312242	-0.14922208	0.100026952	0.804314635
## 777	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 778	-0.155784145	0.2854097918	-0.14922208	-0.311848335	-0.333527479
## 779	-0.155784145	-0.6011149240	-0.14922208	0.006837292	-0.333527479
## 780	1.958792584	0.5036997972	-0.14922208	-0.311848335	-0.333527479
## 781	-0.155784145	0.0448452960	0.29415244	-0.311848335	-0.333527479
## 782	-0.155784145	0.4146018358	-0.14922208	-0.311848335	-0.333527479
## 783	-0.155784145	1.6708830912	-0.14922208	-0.311848335	-0.333527479
## 784	-0.155784145	-0.6011149240	-0.14922208	0.898466755	-0.333527479
## 785	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 786	-0.155784145	-0.2179936900	-0.14922208	-0.012721032	0.420674382
## 787	-0.155784145	-0.2803622630	-0.14922208	0.351984181	0.608134960
## 788	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 789	0.583863938	0.1250334613	-0.14922208	-0.124318526	-0.333527479
## 790	-0.155784145	-0.6011149240	-0.14922208	0.383047401	0.455550768
## 791	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 792	0.688231459	0.5571585740	-0.14922208	-0.311848335	-0.333527479
## 793	-0.155784145	-0.2447230784	-0.14922208	0.429066986	0.368359802
## 794	0.497647291	1.3278559399	0.60820939	-0.288838543	-0.333527479
## 795	-0.155784145	2.0183651406	-0.14922208	-0.311848335	-0.333527479
## 796	-0.155784145	-0.2001740977	-0.14922208	2.498797830	-0.333527479
## 797	0.057488615	0.1072138690	0.13712397	-0.311848335	-0.198381481
## 798	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479



```

## 799 -0.155784145 -0.6011149240 -0.14922208 -0.077148451 -0.333527479
## 800 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 801 -0.155784145 0.0671197864 0.54355061 -0.269280219 -0.333527479
## 802 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 803 18.430710026 -0.6011149240 -0.14922208 -0.231314061 -0.333527479
## 804 -0.155784145 0.0403903980 -0.14922208 6.337981724 -0.333527479
## 805 -0.155784145 -0.6011149240 -0.14922208 0.735097228 0.856629214
## 806 3.315570357 -0.4362836954 -0.14922208 6.364442986 5.264132576
## 807 -0.155784145 0.8912759292 -0.14922208 -0.311848335 -0.333527479
## 808 -0.155784145 -0.6011149240 -0.14922208 -0.224411124 0.106786902
## 809 -0.155784145 -0.2402681804 -0.14922208 -0.311848335 -0.333527479
## 810 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 811 -0.155784145 -0.6011149240 -0.14922208 0.628101692 -0.333527479
## 812 -0.155784145 -0.0531624615 -0.14922208 0.113832828 -0.333527479
## 813 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 814 -0.155784145 -0.6011149240 -0.14922208 0.180561226 -0.333527479
## 815 -0.155784145 4.7002137782 -0.14922208 -0.311848335 -0.333527479
## 816 -0.155784145 4.3482768307 -0.14922208 -0.311848335 -0.333527479
## 817 -0.155784145 -0.6011149240 -0.14922208 2.164005348 -0.333527479
## 818 -0.155784145 0.0893942767 -0.14922208 -0.311848335 -0.333527479
## 819 -0.155784145 0.3655979570 -0.14922208 -0.311848335 -0.333527479
## 820 0.465883262 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 821 -0.155784145 0.0225708057 0.70981605 -0.311848335 -0.333527479
## 822 -0.155784145 -0.6011149240 -0.14922208 0.648810505 -0.333527479
## 823 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 824 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 825 -0.155784145 -0.2491779765 -0.14922208 0.279503334 1.558516496
## 826 -0.155784145 -0.6011149240 -0.14922208 0.180561226 -0.333527479
## 827 -0.155784145 0.8823661330 0.28491547 -0.311848335 -0.333527479
## 828 -0.155784145 -0.6011149240 -0.14922208 0.330124878 0.882786504
## 829 -0.155784145 0.3477783647 -0.14922208 -0.311848335 -0.333527479
## 830 -0.155784145 0.1072138690 -0.14922208 -0.311848335 -0.333527479
## 831 -0.155784145 1.8891730966 -0.14922208 -0.311848335 -0.333527479
## 832 -0.155784145 -0.2224485881 0.10941306 -0.197949862 -0.272493803
## 833 -0.155784145 -0.3560955302 -0.14922208 -0.291139522 -0.333527479
## 834 -0.155784145 0.1562177478 -0.14922208 -0.311848335 -0.333527479
## 835 -0.155784145 0.2141314227 -0.14922208 0.179410736 -0.067595031
## 836 0.075639488 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 837 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 838 0.347902586 0.0715746845 -0.05685239 -0.311848335 -0.246336513
## 839 -0.155784145 -0.6011149240 25.50184106 -0.311848335 -0.333527479
## 840 -0.155784145 -0.3293661417 -0.14922208 -0.241668468 -0.333527479
## 841 -0.155784145 0.0715746845 -0.14922208 0.211624446 -0.333527479
## 842 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 843 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 844 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 845 -0.033265751 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 846 -0.155784145 0.7888132736 0.21101972 -0.311848335 0.176539675
## 847 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.534022638
## 848 -0.155784145 -0.2135387920 -0.14922208 -0.311848335 -0.333527479
## 849 -0.155784145 4.8739548029 -0.14922208 -0.311848335 -0.333527479
## 850 0.406892924 -0.6011149240 0.42347001 -0.240517978 -0.333527479
## 851 -0.155784145 -0.6011149240 -0.14922208 0.957141726 0.146022837
## 852 -0.019652596 -0.1957191997 -0.14922208 -0.311848335 -0.333527479

```

## 853	1.219144501	0.7487191910	-0.14922208	-0.311848335	-0.333527479
## 854	0.012111432	-0.0977114422	-0.14922208	-0.311848335	-0.172224191
## 855	-0.155784145	-0.6011149240	-0.14922208	0.194367102	-0.333527479
## 856	-0.155784145	-0.6011149240	-0.14922208	-0.170338111	-0.333527479
## 857	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 858	-0.155784145	0.0983040729	-0.14922208	0.230032280	-0.333527479
## 859	0.003035995	0.4235116319	-0.14922208	-0.210605248	0.207056513
## 860	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 861	-0.155784145	-0.1912643016	-0.14922208	0.167905840	0.337842963
## 862	-0.155784145	-0.6011149240	-0.14922208	0.510751750	1.052808889
## 863	-0.155784145	-0.6011149240	-0.14922208	0.330124878	-0.333527479
## 864	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 865	-0.155784145	-0.0576173595	-0.14922208	-0.241668468	-0.067595031
## 866	1.677454049	1.1986638959	-0.14922208	0.618897775	-0.333527479
## 867	-0.155784145	0.1874020343	-0.14922208	-0.210605248	-0.333527479
## 868	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 869	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 870	-0.155784145	-0.4184641031	-0.14922208	-0.217508186	-0.154785998
## 871	-0.155784145	-0.0175232769	-0.14922208	0.066662753	-0.333527479
## 872	0.874277910	0.8333622543	0.89455543	-0.247420916	-0.006561355
## 873	-0.155784145	0.3210489763	-0.14922208	-0.311848335	-0.333527479
## 874	-0.155784145	-0.3070916514	-0.14922208	-0.311848335	-0.333527479
## 875	-0.155784145	-0.2224485881	0.41423304	0.136842620	0.089348708
## 876	0.057488615	-0.3917347147	-0.14922208	-0.257775323	-0.333527479
## 877	0.211771037	1.4080441052	-0.14922208	-0.311848335	-0.333527479
## 878	-0.155784145	-0.3249112437	-0.14922208	-0.096706775	-0.333527479
## 879	-0.155784145	0.1161236652	-0.14922208	-0.126619505	-0.333527479
## 880	-0.155784145	-0.6011149240	-0.14922208	0.318619982	0.534022638
## 881	-0.155784145	0.5883428605	1.07929481	-0.158833215	-0.333527479
## 882	-0.155784145	-0.6011149240	-0.14922208	0.050555898	-0.333527479
## 883	-0.155784145	-0.6011149240	-0.14922208	0.972098091	0.150382385
## 884	-0.155784145	-0.2135387920	-0.14922208	-0.211755738	-0.333527479
## 885	-0.155784145	-0.2224485881	0.10941306	-0.206003290	-0.272493803
## 886	-0.155784145	0.6729859238	-0.14922208	-0.311848335	-0.333527479
## 887	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 888	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 889	-0.155784145	0.3121391802	-0.14922208	-0.272731688	-0.333527479
## 890	-0.155784145	-0.6011149240	-0.14922208	0.577480148	0.015236387
## 891	-0.155784145	-0.3338210398	-0.14922208	-0.311848335	-0.333527479
## 892	-0.155784145	1.1852992017	-0.14922208	-0.158833215	-0.333527479
## 893	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 894	-0.155784145	1.5996047221	-0.14922208	-0.217508186	3.254380796
## 895	-0.155784145	-0.0798918499	-0.14922208	-0.042633762	0.686606830
## 896	-0.155784145	-0.2892720591	-0.14922208	-0.311848335	0.281168835
## 897	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 898	-0.155784145	0.4324214281	-0.14922208	0.549868397	1.017932503
## 899	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 900	-0.155784145	0.7264447006	0.39575910	-0.243969447	-0.333527479
## 901	-0.155784145	-0.1467153209	-0.14922208	0.140294089	0.298607028
## 902	-0.155784145	0.4591508165	-0.14922208	-0.311848335	-0.333527479
## 903	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 904	-0.155784145	0.0893942767	-0.14922208	-0.272731688	0.189618320
## 905	-0.155784145	0.4146018358	-0.14922208	-0.311848335	-0.333527479
## 906	-0.155784145	-0.6011149240	3.49938071	-0.311848335	-0.333527479

## 907	-0.155784145	0.5393389817	-0.14922208	0.572878190	-0.333527479
## 908	-0.155784145	0.4190567338	-0.14922208	0.215075915	1.863684879
## 909	-0.155784145	-0.6011149240	3.30540436	-0.311848335	-0.333527479
## 910	-0.155784145	-0.2179936900	-0.14922208	-0.311848335	-0.333527479
## 911	-0.155784145	2.7088743413	-0.14922208	0.114983317	-0.333527479
## 912	-0.155784145	0.2631353014	-0.14922208	0.022944147	-0.333527479
## 913	-0.155784145	2.0495494271	-0.14922208	-0.311848335	-0.333527479
## 914	-0.155784145	-0.6011149240	-0.14922208	3.655039908	-0.333527479
## 915	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.411955285
## 916	-0.155784145	0.1072138690	-0.14922208	-0.311848335	0.359640705
## 917	-0.155784145	-0.6011149240	-0.14922208	-0.210605248	-0.333527479
## 918	-0.155784145	-0.2625426707	-0.14922208	0.192066122	2.216808293
## 919	-0.155784145	-0.0264330731	-0.14922208	-0.163435173	-0.333527479
## 920	1.604850557	0.5527036759	1.04234694	-0.311848335	-0.333527479
## 921	-0.155784145	-0.6011149240	-0.14922208	-0.105910692	-0.333527479
## 922	-0.155784145	-0.6011149240	-0.14922208	-0.103609712	-0.333527479
## 923	-0.155784145	-0.6011149240	-0.14922208	0.311717044	-0.333527479
## 924	-0.155784145	-0.6011149240	-0.14922208	0.143745558	-0.333527479
## 925	-0.155784145	-0.0041585827	-0.14922208	-0.234765530	-0.041437741
## 926	0.615627966	1.6753379893	0.63592030	0.276051865	-0.333527479
## 927	0.175469291	0.0493001941	-0.14922208	-0.311848335	-0.333527479
## 928	0.316138558	-0.2937269572	-0.14922208	-0.311848335	-0.146066901
## 929	0.688231459	0.5571585740	-0.14922208	-0.311848335	-0.333527479
## 930	-0.155784145	0.9269151137	-0.14922208	0.082769608	0.411955285
## 931	-0.155784145	-0.1912643016	-0.14922208	0.167905840	0.337842963
## 932	-0.155784145	-0.3560955302	-0.14922208	0.514203219	-0.333527479
## 933	-0.155784145	-0.4407385935	-0.14922208	-0.270430709	0.468629413
## 934	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 935	-0.155784145	1.1496600172	-0.14922208	-0.052988169	-0.089392773
## 936	-0.155784145	-0.6011149240	-0.14922208	-0.219809165	-0.333527479
## 937	-0.155784145	0.4324214281	-0.14922208	-0.311848335	-0.333527479
## 938	-0.083180652	-0.3783700205	-0.14922208	-0.311848335	-0.263774706
## 939	1.128390135	-0.1244408306	-0.14922208	-0.311848335	-0.102471418
## 940	0.965032276	0.4992448991	-0.14922208	-0.311848335	-0.333527479
## 941	-0.155784145	-0.2224485881	-0.14922208	0.446324331	0.163461030
## 942	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 943	0.184544728	0.0715746845	-0.14922208	-0.311848335	-0.333527479
## 944	-0.155784145	-0.1823545055	-0.14922208	-0.311848335	-0.333527479
## 945	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	0.590696766
## 946	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 947	-0.078642934	-0.2981818553	-0.14922208	0.362338588	0.490427155
## 948	-0.155784145	-0.6011149240	-0.14922208	-0.229013082	-0.333527479
## 949	0.134629826	0.6997153122	1.64274993	-0.200250841	-0.333527479
## 950	-0.155784145	-0.6011149240	-0.14922208	0.172507799	-0.333527479
## 951	-0.155784145	-0.2269034862	-0.14922208	0.467033144	0.773797796
## 952	-0.155784145	-0.6011149240	-0.14922208	0.785718771	-0.333527479
## 953	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 954	-0.155784145	0.2274961169	-0.14922208	-0.204852800	1.698022042
## 955	-0.155784145	-0.4674679819	-0.14922208	-0.242818958	-0.137347805
## 956	-0.155784145	0.3076842821	-0.14922208	0.040201491	0.111146450
## 957	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 958	-0.155784145	0.4903351029	-0.14922208	-0.311848335	-0.333527479
## 959	-0.155784145	-0.6011149240	-0.14922208	-0.311848335	-0.333527479
## 960	-0.119482399	-0.4451934915	-0.14922208	-0.140425381	0.237573352

```

## 961 -0.155784145 0.8155426620 -0.14922208 -0.311848335 -0.333527479
## 962 1.772746134 -0.6011149240 1.42106267 -0.311848335 -0.333527479
## 963 0.257148220 2.2366551460 0.26644153 -0.311848335 -0.333527479
## 964 -0.155784145 -0.2491779765 -0.14922208 0.279503334 1.558516496
## 965 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 966 -0.155784145 -0.1333506267 -0.14922208 0.551018887 0.996134761
## 967 -0.155784145 -0.6011149240 -0.14922208 0.111531848 -0.333527479
## 968 -0.155784145 -0.6011149240 -0.14922208 -0.219809165 0.132944192
## 969 0.007573714 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 970 -0.155784145 -0.6011149240 -0.14922208 -0.111663140 0.045753225
## 971 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 972 -0.155784145 -0.1422604228 -0.14922208 -0.074847472 0.564539476
## 973 0.257148220 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 974 -0.155784145 1.1184757307 -0.14922208 -0.311848335 -0.333527479
## 975 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 976 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 977 -0.155784145 0.1383981555 -0.14922208 -0.216357696 -0.333527479
## 978 -0.155784145 1.5951498241 1.67046083 0.141444579 -0.333527479
## 979 -0.155784145 0.2987744860 -0.14922208 -0.311848335 -0.333527479
## 980 -0.155784145 -0.6011149240 -0.14922208 1.718765861 -0.333527479
## 981 -0.155784145 0.0092061115 -0.14922208 -0.311848335 -0.037078193
## 982 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 983 0.624703403 0.2675901995 0.42347001 -0.311848335 -0.268134255
## 984 -0.155784145 0.0092061115 -0.14922208 0.004536313 -0.333527479
## 985 0.148242981 0.2987744860 -0.14922208 -0.002366625 -0.333527479
## 986 -0.155784145 0.1205785632 -0.14922208 -0.311848335 -0.333527479
## 987 -0.078642934 -0.2981818553 -0.14922208 0.362338588 0.490427155
## 988 -0.155784145 -0.6011149240 -0.14922208 21.698168771 -0.333527479
## 989 -0.155784145 -0.6011149240 -0.14922208 0.389950339 -0.333527479
## 990 -0.155784145 -0.2803622630 -0.14922208 -0.229013082 -0.019640000
## 991 -0.155784145 0.3076842821 -0.14922208 0.040201491 0.111146450
## 992 -0.155784145 -0.0487075634 -0.14922208 0.044803450 -0.063235483
## 993 -0.155784145 0.3076842821 -0.14922208 -0.162284684 0.477348510
## 994 -0.155784145 0.6373467392 -0.14922208 -0.258925812 -0.333527479
## 995 -0.155784145 -0.6011149240 -0.14922208 0.007987782 0.608134960
## 996 -0.155784145 0.0225708057 -0.14922208 -0.311848335 -0.333527479
## 997 -0.155784145 0.2764999956 -0.14922208 1.123962722 0.525303541
## 998 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 999 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1000 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1001 -0.155784145 0.2898646898 -0.14922208 0.609693858 -0.333527479
## 1002 -0.155784145 0.4814253068 -0.14922208 1.558847802 0.372719350
## 1003 -0.155784145 -0.6011149240 -0.14922208 0.348532712 -0.333527479
## 1004 -0.155784145 -0.2892720591 -0.14922208 -0.311848335 0.281168835
## 1005 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1006 -0.155784145 -0.0041585827 -0.14922208 0.304814106 -0.333527479
## 1007 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1008 -0.155784145 1.7555261545 -0.14922208 -0.311848335 -0.333527479
## 1009 -0.155784145 1.3100363476 0.12788700 -0.311848335 -0.333527479
## 1010 -0.155784145 -0.1422604228 -0.14922208 -0.074847472 0.564539476
## 1011 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1012 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1013 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1014 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 4.980761934

```

```

## 1015 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1016 -0.155784145 1.3501304303 -0.14922208 -0.311848335 -0.333527479
## 1017 -0.155784145 -0.1021663402 -0.14922208 -0.054138658 0.643011346
## 1018 -0.155784145 0.6418016373 0.70981605 -0.311848335 -0.333527479
## 1019 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1020 -0.155784145 -0.6011149240 -0.14922208 -0.286537564 -0.237617416
## 1021 -0.155784145 -0.4763777780 -0.14922208 -0.149629298 14.074779749
## 1022 -0.155784145 -0.6011149240 -0.14922208 0.113832828 0.560179928
## 1023 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1024 -0.155784145 -0.1511702190 -0.14922208 0.385348380 -0.333527479
## 1025 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1026 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1027 0.161856136 -0.2892720591 -0.14922208 -0.311848335 -0.333527479
## 1028 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.076270063
## 1029 0.406892924 -0.6011149240 0.42347001 -0.240517978 -0.333527479
## 1030 -0.155784145 -0.6011149240 1.63351296 -0.311848335 -0.333527479
## 1031 -0.155784145 -0.6011149240 -0.14922208 0.931830954 -0.333527479
## 1032 -0.155784145 -0.6011149240 0.81142271 0.288707251 -0.333527479
## 1033 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1034 -0.155784145 0.7487191910 -0.14922208 0.733946738 -0.333527479
## 1035 -0.069567497 -0.1600800151 -0.14922208 -0.209454758 0.010876839
## 1036 -0.155784145 0.2542255053 1.26403419 -0.311848335 -0.333527479
## 1037 -0.155784145 1.0204679732 -0.14922208 -0.311848335 -0.333527479
## 1038 -0.155784145 -0.6011149240 -0.14922208 0.608543368 0.826112376
## 1039 -0.155784145 -0.6011149240 -0.14922208 -0.066794044 0.159101482
## 1040 -0.155784145 -0.6011149240 -0.14922208 0.305964596 -0.333527479
## 1041 -0.155784145 -0.2714524669 -0.14922208 0.117284296 0.316045222
## 1042 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1043 -0.155784145 -0.2669975688 -0.14922208 -0.311848335 -0.333527479
## 1044 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1045 0.202695601 0.1027589709 -0.14922208 -0.311848335 -0.333527479
## 1046 -0.155784145 0.6774408218 -0.14922208 0.018342188 -0.333527479
## 1047 -0.155784145 0.0626648883 -0.14922208 -0.311848335 -0.333527479
## 1048 -0.155784145 -0.6011149240 -0.14922208 0.893864796 -0.333527479
## 1049 -0.155784145 2.7445135259 -0.14922208 -0.311848335 -0.333527479
## 1050 -0.155784145 -0.1511702190 -0.14922208 0.385348380 -0.333527479
## 1051 -0.155784145 0.2453157092 -0.14922208 -0.093255306 1.323100886
## 1052 -0.155784145 0.3700528551 -0.14922208 -0.061041596 -0.333527479
## 1053 -0.155784145 -0.2981818553 -0.14922208 -0.311848335 -0.333527479
## 1054 -0.155784145 0.2764999956 -0.14922208 -0.311848335 -0.333527479
## 1055 -0.155784145 -0.6011149240 -0.14922208 0.072415201 -0.333527479
## 1056 -0.155784145 0.0715746845 2.64957956 -0.067944534 0.987415664
## 1057 -0.155784145 -0.3605504282 -0.14922208 -0.311848335 -0.215819675
## 1058 0.007573714 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 1059 -0.155784145 -0.2313583842 -0.14922208 0.265697459 -0.333527479
## 1060 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1061 -0.155784145 -0.2402681804 0.10017609 -0.187595455 -0.276853351
## 1062 -0.155784145 -0.1645349132 0.30338941 0.254192562 -0.333527479
## 1063 0.175469291 -0.3872798166 -0.14922208 -0.284236584 -0.333527479
## 1064 -0.155784145 -0.6011149240 -0.14922208 0.269148928 -0.333527479
## 1065 0.847051600 0.2364059130 0.25720456 -0.311848335 -0.189662385
## 1066 0.048413178 -0.1957191997 -0.14922208 -0.260076302 -0.333527479
## 1067 -0.155784145 -0.3070916514 -0.14922208 0.730495269 2.556853063
## 1068 -0.155784145 3.5998539551 -0.14922208 0.773063385 -0.333527479

```

```

## 1069 -0.155784145 -0.1110761364 -0.14922208 0.251891583 0.355281157
## 1070 -0.155784145 -0.6011149240 -0.14922208 0.934131934 0.294247480
## 1071 -0.155784145 -0.6011149240 -0.14922208 -0.066794044 -0.333527479
## 1072 -0.155784145 1.5951498241 -0.14922208 -0.311848335 -0.333527479
## 1073 -0.155784145 1.9426318734 -0.14922208 -0.311848335 -0.333527479
## 1074 -0.155784145 -0.1511702190 -0.14922208 -0.254323854 2.321437453
## 1075 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1076 -0.155784145 0.0849393787 -0.14922208 0.577480148 -0.333527479
## 1077 0.656467431 0.7576289871 0.11865003 -0.278484136 -0.285572448
## 1078 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1079 -0.155784145 -0.6011149240 -0.14922208 2.405608170 -0.333527479
## 1080 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1081 -0.155784145 2.1297375923 -0.14922208 -0.311848335 -0.333527479
## 1082 -0.155784145 0.5883428605 0.46041788 -0.311848335 -0.333527479
## 1083 -0.155784145 -0.2402681804 -0.14922208 0.248440114 -0.333527479
## 1084 -0.155784145 -0.6011149240 -0.14922208 -0.212906227 0.041393677
## 1085 -0.155784145 1.0605620558 -0.14922208 -0.311848335 -0.333527479
## 1086 -0.155784145 0.1562177478 -0.14922208 1.155025942 0.281168835
## 1087 -0.155784145 -0.6011149240 -0.14922208 -0.112813630 -0.333527479
## 1088 -0.133095554 -0.2090838939 -0.14922208 0.055157856 1.754696170
## 1089 -0.155784145 -0.2358132823 -0.14922208 0.450926289 -0.333527479
## 1090 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1091 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1092 -0.155784145 -0.3338210398 -0.14922208 0.638456099 2.914336026
## 1093 0.624703403 0.2675901995 0.42347001 -0.311848335 -0.268134255
## 1094 -0.155784145 -0.6011149240 -0.14922208 -0.081750410 -0.333527479
## 1095 -0.155784145 0.0804844806 -0.14922208 0.085070587 1.170516694
## 1096 -0.033265751 -0.4808326761 -0.14922208 0.192066122 0.499146251
## 1097 0.670080586 1.1852992017 0.85760755 -0.102459223 0.302966577
## 1098 -0.155784145 0.2274961169 -0.14922208 -0.247420916 -0.089392773
## 1099 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1100 -0.074105216 -0.2714524669 -0.14922208 -0.248571406 -0.333527479
## 1101 -0.155784145 1.0204679732 -0.14922208 0.526858605 0.193977868
## 1102 -0.155784145 0.3032293841 0.01704337 -0.291139522 -0.333527479
## 1103 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1104 14.501045975 -0.6011149240 -0.14922208 -0.256624833 -0.333527479
## 1105 -0.087718371 -0.0709820537 -0.08456329 0.184012695 0.150382385
## 1106 -0.155784145 -0.3605504282 -0.14922208 -0.311848335 0.847910118
## 1107 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1108 -0.155784145 0.0181159076 1.13471663 -0.311848335 -0.333527479
## 1109 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1110 0.833438445 0.3700528551 -0.14922208 -0.249721895 -0.333527479
## 1111 -0.155784145 1.1852992017 -0.14922208 -0.158833215 -0.333527479
## 1112 -0.155784145 -0.6011149240 -0.14922208 -0.223260634 -0.333527479
## 1113 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1114 0.565713065 1.8847181985 1.31945601 -0.082900899 -0.333527479
## 1115 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 1116 -0.155784145 0.0092061115 -0.14922208 -0.233615041 -0.333527479
## 1117 0.343364868 -0.1110761364 -0.14922208 -0.311848335 -0.333527479
## 1118 -0.155784145 -0.6011149240 -0.14922208 -0.220959655 0.128584643
## 1119 -0.155784145 0.9892836867 -0.14922208 -0.311848335 -0.333527479
## 1120 -0.155784145 -0.6011149240 1.11624269 0.163303882 -0.333527479
## 1121 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1122 -0.155784145 0.5927977585 -0.14922208 -0.003517115 -0.333527479

```

```

## 1123 -0.155784145 -0.0576173595 0.97768815 -0.311848335 0.599415863
## 1124 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1125 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1126 -0.155784145 -0.6011149240 -0.14922208 0.721291352 0.124225095
## 1127 -0.155784145 -0.0977114422 -0.14922208 -0.208304269 -0.333527479
## 1128 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479
## 1129 -0.155784145 -0.6011149240 -0.14922208 -0.115114609 0.411955285
## 1130 -0.155784145 -0.4541032877 -0.14922208 -0.311848335 -0.333527479
## 1131 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1132 -0.155784145 0.3032293841 -0.14922208 -0.311848335 -0.333527479
## 1133 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1134 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1135 0.393279770 1.0249228712 0.96845118 0.248440114 -0.333527479
## 1136 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1137 -0.033265751 -0.4808326761 -0.14922208 0.192066122 0.499146251
## 1138 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1139 -0.155784145 0.4101469377 1.94756991 -0.311848335 -0.333527479
## 1140 0.833438445 -0.2135387920 -0.14922208 -0.111663140 0.425033930
## 1141 0.148242981 0.2987744860 -0.14922208 -0.002366625 -0.333527479
## 1142 -0.155784145 -0.2625426707 -0.14922208 0.304814106 1.000494309
## 1143 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1144 -0.155784145 0.5126095933 -0.14922208 0.934131934 1.118202114
## 1145 -0.155784145 0.7086251083 -0.14922208 0.139143599 -0.333527479
## 1146 -0.155784145 0.1963118304 -0.14922208 0.101177442 1.423370497
## 1147 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1148 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1149 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1150 -0.155784145 0.1383981555 -0.14922208 -0.216357696 -0.333527479
## 1151 -0.155784145 -0.2892720591 0.06322821 -0.311848335 -0.333527479
## 1152 -0.155784145 0.2408608111 -0.14922208 -0.311848335 -0.333527479
## 1153 -0.155784145 -0.6011149240 -0.14922208 0.064361773 5.582379604
## 1154 -0.155784145 -0.1957191997 -0.14922208 -0.260076302 -0.333527479
## 1155 -0.155784145 -0.3739151224 -0.14922208 -0.311848335 -0.333527479
## 1156 0.974107712 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1157 -0.155784145 0.0715746845 -0.14922208 0.561373294 -0.333527479
## 1158 -0.155784145 -0.5031071664 -0.14922208 -0.311848335 -0.333527479
## 1159 -0.155784145 -0.6011149240 -0.14922208 2.224981298 -0.333527479
## 1160 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1161 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1162 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.032674580
## 1163 0.479496417 -0.6011149240 -0.14922208 0.740849676 -0.333527479
## 1164 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1165 1.042173487 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1166 -0.155784145 -0.2447230784 -0.14922208 0.796073178 -0.333527479
## 1167 -0.155784145 -0.3070916514 -0.14922208 0.730495269 2.556853063
## 1168 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1169 -0.155784145 3.4082933381 -0.14922208 -0.311848335 -0.333527479
## 1170 -0.155784145 -0.0487075634 -0.14922208 -0.025376418 -0.333527479
## 1171 -0.155784145 0.1294883594 -0.14922208 -0.311848335 -0.333527479
## 1172 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1173 -0.155784145 0.6284369431 -0.14922208 -0.153080767 -0.333527479
## 1174 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1175 -0.155784145 0.1116687671 -0.14922208 -0.311848335 -0.333527479
## 1176 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479

```

```

## 1177 -0.155784145 0.0983040729 -0.14922208 -0.311848335 -0.333527479
## 1178 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1179 -0.155784145 -0.3961896128 -0.14922208 -0.232464551 -0.333527479
## 1180 -0.155784145 -0.2848171611 -0.14922208 0.345081243 0.599415863
## 1181 -0.155784145 1.4347734936 -0.14922208 0.021793657 -0.333527479
## 1182 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1183 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1184 -0.155784145 -0.3471857340 -0.14922208 0.171357309 0.499146251
## 1185 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1186 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1187 -0.155784145 -0.6011149240 -0.14922208 1.082545096 -0.333527479
## 1188 0.924192811 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 1189 -0.155784145 2.4282157630 -0.14922208 -0.311848335 -0.333527479
## 1190 0.574788502 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1191 -0.155784145 0.4992448991 -0.14922208 -0.105910692 2.604808095
## 1192 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1193 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1194 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 -0.106830966
## 1195 -0.155784145 -0.6011149240 -0.14922208 -0.157682725 -0.333527479
## 1196 -0.155784145 -0.5031071664 -0.14922208 -0.311848335 -0.333527479
## 1197 1.232757656 0.3076842821 -0.14922208 0.040201491 -0.333527479
## 1198 -0.155784145 0.2141314227 -0.14922208 -0.132371953 0.119865547
## 1199 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.067595031
## 1200 -0.155784145 0.2230412188 -0.14922208 -0.311848335 -0.333527479
## 1201 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.364000253
## 1202 -0.155784145 0.6284369431 -0.14922208 -0.153080767 -0.333527479
## 1203 -0.155784145 -0.6011149240 -0.14922208 -0.038031804 0.704045023
## 1204 -0.155784145 -0.1868094035 -0.14922208 -0.204852800 -0.333527479
## 1205 0.284374530 0.3878724474 -0.14922208 0.198969060 0.756359603
## 1206 -0.114944680 -0.0264330731 -0.14922208 -0.194498393 0.795595538
## 1207 -0.155784145 -0.0175232769 0.24796759 -0.262377281 -0.333527479
## 1208 -0.037803469 -0.1868094035 -0.14922208 -0.296891970 0.189618320
## 1209 -0.155784145 1.4971420665 -0.14922208 -0.311848335 -0.333527479
## 1210 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1211 2.598610865 -0.3160014475 0.18330881 -0.248571406 -0.333527479
## 1212 -0.155784145 -0.6011149240 -0.14922208 1.551944865 1.179235791
## 1213 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1214 19.660431686 -0.6011149240 -0.14922208 -0.226712103 -0.333527479
## 1215 1.042173487 0.3388685686 0.82065968 -0.252022875 -0.333527479
## 1216 -0.155784145 0.5482487778 -0.14922208 -0.311848335 -0.333527479
## 1217 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1218 -0.155784145 0.9491896041 -0.14922208 1.022719635 -0.333527479
## 1219 0.901504220 -0.3427308360 -0.14922208 -0.178391538 0.172180127
## 1220 1.318974303 2.8781604679 -0.14922208 -0.311848335 -0.333527479
## 1221 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1222 -0.155784145 0.1428530536 -0.14922208 -0.311848335 -0.333527479
## 1223 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1224 -0.155784145 0.2631353014 -0.14922208 -0.311848335 -0.333527479
## 1225 -0.155784145 0.0582099903 1.21784935 -0.311848335 -0.333527479
## 1226 -0.155784145 0.3076842821 -0.14922208 -0.311848335 -0.333527479
## 1227 -0.155784145 2.7088743413 -0.14922208 0.114983317 -0.333527479
## 1228 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1229 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1230 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796

```



```

## 1231 -0.155784145 0.3789626512 -0.14922208 -0.311848335 -0.333527479
## 1232 0.093790361 0.1428530536 -0.14922208 -0.311848335 -0.333527479
## 1233 0.089252643 -0.1199859325 -0.14922208 -0.249721895 -0.333527479
## 1234 -0.155784145 0.4368763261 0.92226634 -0.311848335 -0.333527479
## 1235 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1236 -0.155784145 1.0204679732 -0.14922208 -0.311848335 -0.333527479
## 1237 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1238 -0.087718371 -0.3961896128 0.13712397 -0.025376418 -0.198381481
## 1239 -0.155784145 1.6530634990 -0.14922208 -0.254323854 -0.333527479
## 1240 -0.155784145 -0.6011149240 -0.14922208 0.361188098 -0.132988256
## 1241 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1242 -0.155784145 -0.0798918499 -0.14922208 -0.042633762 0.686606830
## 1243 -0.155784145 -0.3961896128 -0.14922208 -0.311848335 -0.333527479
## 1244 -0.155784145 -0.6011149240 -0.14922208 1.388575337 -0.333527479
## 1245 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.525303541
## 1246 -0.155784145 0.4235116319 -0.14922208 0.540664480 1.000494309
## 1247 -0.155784145 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 1248 -0.155784145 0.4769704087 -0.14922208 -0.311848335 -0.333527479
## 1249 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1250 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1251 -0.155784145 0.7086251083 -0.14922208 -0.311848335 -0.333527479
## 1252 -0.155784145 0.3210489763 -0.14922208 -0.311848335 -0.333527479
## 1253 0.075639488 0.5348840836 0.79294877 -0.311848335 -0.333527479
## 1254 -0.155784145 0.1027589709 -0.14922208 -0.220959655 -0.333527479
## 1255 -0.155784145 -0.2358132823 -0.14922208 0.186313674 1.972673587
## 1256 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1257 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1258 -0.155784145 1.0160130751 0.96845118 -0.311848335 -0.333527479
## 1259 -0.155784145 -0.3160014475 -0.14922208 -0.126619505 -0.333527479
## 1260 -0.155784145 0.0136610096 -0.14922208 -0.258925812 -0.333527479
## 1261 -0.155784145 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1262 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1263 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1264 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1265 -0.155784145 0.2943195879 -0.14922208 0.770762406 -0.041437741
## 1266 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1267 -0.155784145 -0.1110761364 -0.14922208 0.251891583 0.355281157
## 1268 0.974107712 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1269 -0.155784145 -0.6011149240 -0.14922208 0.225430322 0.682247281
## 1270 -0.155784145 0.3611430589 0.84837058 -0.063342575 -0.333527479
## 1271 -0.155784145 -0.6011149240 -0.14922208 2.164005348 -0.333527479
## 1272 -0.155784145 -0.3872798166 -0.14922208 -0.034580335 -0.019640000
## 1273 1.976943457 -0.6011149240 -0.14922208 -0.041483272 0.690966378
## 1274 -0.155784145 0.8957308272 -0.14922208 -0.311848335 -0.333527479
## 1275 0.043875460 0.0626648883 -0.01990451 -0.311848335 -0.333527479
## 1276 0.706382332 -0.6011149240 -0.14922208 1.332201345 0.080629612
## 1277 -0.155784145 -0.6011149240 -0.14922208 0.419863069 -0.333527479
## 1278 -0.155784145 -0.3115465495 -0.14922208 0.151798985 0.176539675
## 1279 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1280 -0.155784145 4.2190847867 -0.14922208 -0.311848335 -0.333527479
## 1281 -0.110406962 -0.3739151224 -0.14922208 -0.288838543 0.377078898
## 1282 -0.155784145 0.6239820450 0.69134211 0.110381359 -0.333527479
## 1283 -0.155784145 0.8957308272 -0.14922208 1.081394606 1.719819784
## 1284 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1285 -0.096793807 -0.0531624615 -0.14922208 -0.217508186 -0.333527479
## 1286 -0.155784145 -0.6011149240 -0.14922208 1.318395470 -0.333527479
## 1287 -0.155784145 1.2743971631 -0.14922208 -0.070245513 2.421707065
## 1288 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1289 -0.155784145 -0.1199859325 -0.14922208 -0.311848335 0.377078898
## 1290 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1291 -0.155784145 -0.2892720591 0.06322821 -0.311848335 -0.333527479
## 1292 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1293 -0.155784145 -0.4229190012 -0.14922208 -0.311848335 -0.333527479
## 1294 -0.155784145 -0.6011149240 -0.14922208 -0.227862592 0.952539278
## 1295 -0.155784145 0.0671197864 0.54355061 -0.269280219 -0.333527479
## 1296 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1297 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1298 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1299 0.692769178 0.1116687671 0.17407184 -0.311848335 -0.259415158
## 1300 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1301 -0.155784145 -0.4541032877 -0.14922208 0.957141726 0.246292448
## 1302 -0.155784145 0.1562177478 -0.14922208 0.274901376 1.148718953
## 1303 -0.155784145 -0.3160014475 -0.14922208 0.060910305 -0.333527479
## 1304 -0.155784145 0.8422720504 -0.14922208 0.248440114 -0.333527479
## 1305 -0.155784145 -0.1244408306 -0.14922208 0.057458836 0.132944192
## 1306 -0.155784145 -0.6011149240 -0.14922208 0.172507799 0.581977670
## 1307 -0.155784145 0.3032293841 -0.14922208 0.156400944 1.440808691
## 1308 -0.001501723 0.0181159076 0.16483487 -0.311848335 -0.032718645
## 1309 0.198157882 -0.2536328746 -0.14922208 -0.311848335 -0.333527479
## 1310 0.080177207 -0.3115465495 -0.14922208 -0.311848335 -0.333527479
## 1311 -0.155784145 8.3665948890 -0.14922208 -0.311848335 -0.333527479
## 1312 -0.155784145 0.0537550922 -0.14922208 -0.142726360 -0.333527479
## 1313 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1314 0.157318418 -0.1422604228 -0.14922208 -0.311848335 -0.285572448
## 1315 -0.155784145 -0.6011149240 -0.14922208 0.577480148 0.015236387
## 1316 -0.155784145 -0.6011149240 -0.14922208 0.578630638 -0.333527479
## 1317 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1318 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1319 -0.155784145 -0.1645349132 -0.14922208 -0.085201878 -0.333527479
## 1320 -0.033265751 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1321 -0.155784145 0.2943195879 -0.14922208 -0.311848335 -0.333527479
## 1322 -0.155784145 -0.6011149240 -0.14922208 1.918951057 -0.333527479
## 1323 -0.155784145 0.2809548937 -0.14922208 -0.311848335 -0.333527479
## 1324 0.202695601 -0.2981818553 -0.14922208 -0.311848335 -0.237617416
## 1325 -0.155784145 -0.2135387920 -0.14922208 -0.311848335 -0.333527479
## 1326 -0.155784145 -0.6011149240 -0.14922208 3.398480720 -0.333527479
## 1327 -0.155784145 -0.6011149240 -0.14922208 0.671820298 3.127953894
## 1328 -0.155784145 -0.6011149240 -0.14922208 0.330124878 -0.333527479
## 1329 -0.096793807 -0.0531624615 -0.14922208 -0.217508186 -0.333527479
## 1330 -0.155784145 -0.0977114422 0.89455543 -0.247420916 -0.333527479
## 1331 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1332 -0.155784145 18.4257547288 -0.14922208 0.432518455 -0.333527479
## 1333 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1334 -0.155784145 0.1784922381 0.38652213 -0.311848335 -0.333527479
## 1335 3.061458132 -0.1333506267 -0.14922208 -0.311848335 -0.333527479
## 1336 -0.155784145 1.7287967661 -0.14922208 -0.311848335 -0.333527479
## 1337 -0.155784145 0.1250334613 -0.14922208 -0.311848335 -0.333527479
## 1338 -0.155784145 0.2408608111 -0.14922208 -0.311848335 -0.333527479

```

```

## 1339 -0.155784145 -0.6011149240 -0.14922208 -0.195648883 0.991775213
## 1340 -0.155784145 2.5351333166 -0.14922208 -0.311848335 -0.333527479
## 1341 -0.155784145 -0.3917347147 -0.01066754 0.284105293 0.350921608
## 1342 0.139167545 -0.6011149240 0.14636093 -0.311848335 -0.333527479
## 1343 1.114776980 0.6462565354 -0.14922208 -0.182993497 1.131280759
## 1344 0.012111432 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1345 0.202695601 -0.6011149240 0.21101972 -0.174940070 -0.333527479
## 1346 -0.155784145 -0.2224485881 0.63592030 -0.214056717 -0.333527479
## 1347 -0.155784145 0.0225708057 -0.14922208 -0.311848335 -0.333527479
## 1348 -0.155784145 0.7709936813 -0.14922208 -0.311848335 -0.333527479
## 1349 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1350 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 1351 -0.155784145 -0.0487075634 -0.14922208 0.116133807 -0.333527479
## 1352 -0.155784145 -0.1422604228 -0.14922208 -0.311848335 -0.333527479
## 1353 -0.155784145 -0.0843467480 -0.14922208 0.088522056 -0.333527479
## 1354 -0.155784145 -0.1823545055 0.28491547 -0.094405795 0.281168835
## 1355 -0.155784145 0.5393389817 -0.14922208 -0.311848335 -0.333527479
## 1356 -0.155784145 1.7911653391 -0.14922208 -0.311848335 -0.333527479
## 1357 -0.051416624 -0.4986522684 -0.14922208 -0.311848335 -0.333527479
## 1358 -0.155784145 1.6129694163 0.99616209 -0.311848335 -0.333527479
## 1359 -0.155784145 -0.3249112437 -0.14922208 -0.096706775 -0.333527479
## 1360 -0.155784145 -0.3160014475 -0.14922208 -0.126619505 -0.333527479
## 1361 -0.155784145 1.5149616588 1.31021904 -0.311848335 -0.333527479
## 1362 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1363 -0.155784145 0.3076842821 -0.14922208 -0.077148451 0.220135158
## 1364 -0.155784145 -0.6011149240 -0.14922208 0.646509526 -0.333527479
## 1365 -0.155784145 -0.3560955302 -0.14922208 -0.311848335 -0.333527479
## 1366 -0.155784145 0.6106173508 -0.14922208 -0.311848335 0.259371093
## 1367 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.573258573
## 1368 -0.155784145 -0.6011149240 -0.14922208 0.555620845 0.486067606
## 1369 -0.155784145 0.2809548937 -0.14922208 -0.084051389 2.264763325
## 1370 -0.155784145 -0.2759073649 -0.14922208 0.616596796 -0.333527479
## 1371 -0.155784145 -0.1912643016 -0.14922208 -0.311848335 -0.333527479
## 1372 -0.155784145 0.2542255053 -0.14922208 -0.164585663 -0.333527479
## 1373 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1374 -0.155784145 0.2720450976 -0.14922208 -0.311848335 -0.333527479
## 1375 0.352440305 0.2987744860 0.46965485 -0.311848335 -0.272493803
## 1376 -0.155784145 1.1452051191 -0.14922208 -0.311848335 -0.333527479
## 1377 -0.101331526 -0.1556251171 -0.14922208 -0.311848335 0.102427353
## 1378 -0.155784145 1.0071032790 -0.14922208 -0.311848335 -0.333527479
## 1379 -0.155784145 -0.6011149240 -0.14922208 -0.128920484 -0.333527479
## 1380 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1381 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.930741536
## 1382 -0.155784145 -0.6011149240 -0.14922208 37.053753859 -0.333527479
## 1383 -0.155784145 0.4680606126 -0.14922208 1.718765861 1.763415267
## 1384 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1385 -0.155784145 -0.4184641031 -0.14922208 -0.194498393 0.560179928
## 1386 -0.033265751 0.3255038744 -0.02914148 -0.280785115 -0.333527479
## 1387 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1388 -0.155784145 0.0626648883 -0.14922208 -0.311848335 -0.333527479
## 1389 -0.155784145 0.0270257038 -0.14922208 -0.311848335 -0.333527479
## 1390 -0.155784145 1.4837773723 -0.14922208 -0.204852800 -0.333527479
## 1391 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1392 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1393 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1394 0.062026333 0.9090955214 -0.14922208 -0.256624833 -0.333527479
## 1395 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1396 -0.105869244 -0.3917347147 -0.14922208 -0.311848335 -0.233257868
## 1397 -0.155784145 -0.6011149240 -0.14922208 -0.069095024 2.892538284
## 1398 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1399 -0.155784145 3.2701914980 -0.14922208 1.688853131 -0.333527479
## 1400 -0.155784145 1.3946794110 -0.14922208 -0.247420916 -0.333527479
## 1401 0.697306896 0.0582099903 0.17407184 -0.311848335 -0.289931996
## 1402 -0.155784145 0.4146018358 0.90379240 -0.311848335 -0.333527479
## 1403 -0.155784145 -0.0041585827 -0.14922208 -0.002366625 -0.333527479
## 1404 -0.155784145 -0.6011149240 -0.14922208 -0.086352368 -0.333527479
## 1405 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1406 -0.155784145 0.2185863207 -0.14922208 -0.311848335 -0.333527479
## 1407 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1408 0.143705263 -0.1066212383 -0.14922208 -0.286537564 -0.141707353
## 1409 -0.155784145 -0.6011149240 -0.14922208 -0.079449430 5.843952503
## 1410 -0.155784145 -0.1021663402 -0.14922208 -0.311848335 3.603144662
## 1411 -0.155784145 -0.6011149240 -0.14922208 0.454377758 -0.333527479
## 1412 -0.155784145 -0.2358132823 -0.14922208 -0.217508186 -0.333527479
## 1413 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1414 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1415 -0.155784145 -0.6011149240 -0.14922208 2.246840601 4.998200127
## 1416 -0.155784145 -0.6011149240 -0.14922208 0.364639567 0.346562060
## 1417 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1418 -0.155784145 0.1874020343 -0.14922208 -0.311848335 1.209752629
## 1419 -0.155784145 -0.2981818553 -0.14922208 0.242687666 3.572627824
## 1420 -0.155784145 -0.6011149240 -0.14922208 0.022944147 -0.333527479
## 1421 -0.155784145 0.4146018358 -0.14922208 -0.260076302 -0.333527479
## 1422 -0.019652596 -0.3338210398 -0.14922208 -0.311848335 -0.333527479
## 1423 -0.155784145 -0.4006445109 -0.14922208 -0.249721895 0.180899223
## 1424 -0.155784145 -0.3783700205 -0.14922208 -0.311848335 -0.333527479
## 1425 -0.155784145 0.8556367446 -0.14922208 -0.311848335 0.141663288
## 1426 -0.155784145 -0.3872798166 -0.14922208 -0.034580335 -0.019640000
## 1427 -0.155784145 0.1339432574 -0.14922208 0.258794521 -0.333527479
## 1428 -0.155784145 2.2722943306 -0.14922208 -0.311848335 -0.333527479
## 1429 -0.155784145 0.6863506180 -0.01066754 -0.240517978 -0.132988256
## 1430 -0.155784145 -0.3427308360 -0.14922208 0.127638703 3.359009956
## 1431 -0.155784145 -0.2313583842 -0.14922208 -0.311848335 -0.333527479
## 1432 -0.155784145 1.0338326674 0.69134211 -0.311848335 -0.333527479
## 1433 -0.155784145 -0.0531624615 -0.14922208 0.113832828 -0.333527479
## 1434 -0.155784145 -0.6011149240 -0.14922208 -0.169187621 -0.333527479
## 1435 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1436 -0.155784145 -0.1823545055 -0.14922208 -0.311848335 -0.333527479
## 1437 0.288912249 0.4056920396 -0.14922208 0.094274504 0.773797796
## 1438 -0.155784145 2.5351333166 -0.14922208 -0.311848335 -0.333527479
## 1439 -0.155784145 0.0983040729 -0.14922208 -0.311848335 -0.333527479
## 1440 -0.155784145 -0.6011149240 -0.14922208 0.172507799 0.581977670
## 1441 -0.155784145 1.5728753337 -0.14922208 2.720842329 2.644044030
## 1442 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1443 -0.155784145 -0.0531624615 -0.14922208 -0.311848335 -0.333527479
## 1444 -0.155784145 -0.0531624615 -0.14922208 -0.311848335 -0.333527479
## 1445 -0.155784145 0.2364059130 0.22949366 -0.311848335 -0.333527479
## 1446 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

```

## 1447 -0.155784145 -0.0843467480 -0.14922208 -0.311848335 -0.333527479
## 1448 -0.155784145 2.8247016911 -0.14922208 -0.311848335 -0.333527479
## 1449 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 1450 -0.155784145 0.9670091963 -0.14922208 -0.109362161 -0.333527479
## 1451 -0.155784145 0.6284369431 -0.14922208 -0.311848335 -0.333527479
## 1452 -0.087718371 -0.3917347147 0.13712397 -0.020774459 -0.198381481
## 1453 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1454 -0.155784145 0.5304291856 -0.14922208 -0.165736152 -0.333527479
## 1455 -0.155784145 -0.6011149240 1.94756991 -0.311848335 -0.333527479
## 1456 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.590696766
## 1457 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1458 -0.124020117 0.1473079516 -0.14922208 -0.268129730 -0.067595031
## 1459 -0.155784145 1.2743971631 -0.14922208 -0.070245513 2.421707065
## 1460 0.965032276 0.4992448991 -0.14922208 -0.311848335 -0.333527479
## 1461 -0.037803469 -0.2536328746 -0.14922208 -0.162284684 -0.333527479
## 1462 -0.155784145 -0.2402681804 0.10017609 -0.202551821 -0.276853351
## 1463 0.552099910 -0.6011149240 -0.14922208 0.679873725 -0.333527479
## 1464 -0.155784145 1.0605620558 -0.14922208 0.081619118 2.787909124
## 1465 -0.155784145 -0.6011149240 -0.14922208 -0.111663140 0.045753225
## 1466 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1467 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1468 0.161856136 0.6462565354 -0.14922208 -0.311848335 -0.333527479
## 1469 -0.155784145 0.1829471362 -0.14922208 0.500397343 -0.333527479
## 1470 -0.155784145 -0.6011149240 6.78774170 -0.311848335 -0.333527479
## 1471 -0.155784145 -0.1288957286 -0.14922208 -0.311848335 0.359640705
## 1472 3.084146723 -0.6011149240 -0.14922208 -0.038031804 -0.333527479
## 1473 -0.155784145 0.5883428605 0.46041788 -0.311848335 -0.333527479
## 1474 0.125554390 0.5036997972 -0.14922208 0.402605725 -0.063235483
## 1475 -0.155784145 -0.2358132823 -0.14922208 0.258794521 0.747640506
## 1476 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1477 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1478 -0.155784145 2.7846076085 0.10941306 -0.311848335 -0.333527479
## 1479 -0.155784145 -0.6011149240 -0.14922208 0.143745558 -0.333527479
## 1480 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1481 -0.155784145 -0.0041585827 -0.14922208 -0.234765530 -0.041437741
## 1482 -0.155784145 0.6818957199 -0.14922208 0.571727700 -0.333527479
## 1483 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1484 -0.155784145 -0.6011149240 -0.14922208 0.151798985 -0.333527479
## 1485 -0.110406962 -0.3694602244 -0.14922208 -0.300343439 0.394517092
## 1486 -0.155784145 -0.2179936900 -0.14922208 -0.003517115 0.320404770
## 1487 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1488 -0.155784145 -0.6011149240 -0.14922208 1.151574474 0.773797796
## 1489 0.924192811 1.3724049206 0.47889182 -0.311848335 -0.333527479
## 1490 -0.078642934 -0.2981818553 -0.14922208 0.362338588 0.490427155
## 1491 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1492 -0.155784145 2.3613922919 -0.14922208 -0.311848335 2.565572160
## 1493 -0.155784145 2.7356037297 -0.14922208 0.118434786 -0.333527479
## 1494 -0.155784145 -0.2402681804 -0.14922208 0.248440114 -0.333527479
## 1495 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1496 -0.155784145 -0.6011149240 1.58732811 0.120735765 -0.333527479
## 1497 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1498 -0.155784145 -0.1511702190 -0.14922208 -0.254323854 2.321437453
## 1499 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1500 -0.155784145 -0.1066212383 -0.14922208 -0.184143987 -0.333527479

```

```

## 1501 -0.155784145 1.0694718519 -0.14922208 -0.311848335 25.836841142
## 1502 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 1503 -0.155784145 0.1784922381 -0.14922208 -0.311848335 -0.333527479
## 1504 -0.155784145 -0.6011149240 -0.14922208 1.551944865 1.179235791
## 1505 0.071101770 0.7531740890 0.78371180 -0.311848335 -0.333527479
## 1506 -0.155784145 -0.4229190012 -0.14922208 0.338178305 0.193977868
## 1507 -0.155784145 0.5259742875 -0.14922208 1.629027670 0.398876640
## 1508 -0.155784145 0.8378171523 -0.14922208 -0.311848335 -0.333527479
## 1509 -0.155784145 0.4146018358 0.90379240 -0.311848335 -0.333527479
## 1510 -0.155784145 -0.6011149240 -0.14922208 -0.093255306 -0.333527479
## 1511 -0.155784145 0.1695824420 -0.14922208 0.220828363 -0.333527479
## 1512 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.150382385
## 1513 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1514 -0.155784145 -0.3338210398 -0.14922208 -0.173789580 2.024988167
## 1515 0.511260445 0.0537550922 2.56644683 -0.311848335 -0.333527479
## 1516 -0.155784145 0.6373467392 1.13471663 -0.311848335 -0.333527479
## 1517 -0.155784145 -0.3070916514 -0.14922208 -0.235916020 -0.333527479
## 1518 -0.155784145 1.5728753337 -0.14922208 2.720842329 2.644044030
## 1519 -0.155784145 0.7308995987 -0.14922208 0.376144463 0.446831671
## 1520 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1521 0.361515741 -0.6011149240 -0.14922208 -0.246270427 -0.333527479
## 1522 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1523 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1524 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1525 -0.155784145 0.3388685686 -0.14922208 -0.311848335 0.586337218
## 1526 -0.155784145 -0.6011149240 2.29857473 -0.311848335 -0.333527479
## 1527 -0.155784145 -0.4496483896 -0.14922208 0.342780264 0.568899025
## 1528 -0.155784145 0.2898646898 0.46041788 -0.311848335 -0.333527479
## 1529 -0.155784145 -0.0487075634 -0.14922208 0.116133807 -0.333527479
## 1530 -0.155784145 -0.1600800151 -0.14922208 0.715538904 -0.333527479
## 1531 -0.001501723 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1532 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1533 0.742684079 1.7555261545 2.89897772 -0.084051389 -0.333527479
## 1534 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1535 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1536 -0.155784145 -0.6011149240 -0.14922208 2.164005348 -0.333527479
## 1537 -0.155784145 0.1562177478 -0.14922208 -0.311848335 -0.333527479
## 1538 -0.155784145 -0.5832953317 -0.14922208 -0.182993497 -0.255055610
## 1539 -0.155784145 -0.6011149240 -0.14922208 0.494644895 1.192314436
## 1540 -0.155784145 1.2209383863 -0.14922208 0.865102556 4.126290462
## 1541 -0.155784145 -0.2848171611 -0.14922208 -0.311848335 -0.333527479
## 1542 -0.155784145 -0.4541032877 -0.14922208 0.957141726 0.246292448
## 1543 -0.155784145 -0.6011149240 -0.14922208 0.263396479 -0.333527479
## 1544 0.297987685 0.1829471362 -0.14922208 -0.311848335 0.211416062
## 1545 -0.155784145 1.0427424635 -0.14922208 -0.311848335 -0.333527479
## 1546 -0.155784145 -0.6011149240 -0.14922208 0.918025079 -0.333527479
## 1547 -0.155784145 -0.2402681804 -0.14922208 -0.311848335 -0.333527479
## 1548 -0.155784145 -0.3338210398 -0.14922208 0.244988645 -0.333527479
## 1549 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1550 -0.155784145 1.4704126781 -0.14922208 -0.311848335 -0.333527479
## 1551 -0.155784145 -0.1422604228 -0.14922208 -0.311848335 -0.333527479
## 1552 -0.155784145 0.2854097918 -0.14922208 -0.311848335 -0.333527479
## 1553 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1554 -0.155784145 0.1294883594 -0.14922208 2.341180751 0.381438447

```

```

## 1555 -0.155784145 0.2052216265 -0.14922208 0.156400944 4.012942205
## 1556 -0.155784145 -0.6011149240 -0.14922208 0.111531848 2.072943198
## 1557 -0.155784145 -0.2625426707 -0.14922208 0.039051002 1.327460434
## 1558 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1559 -0.155784145 0.3076842821 -0.14922208 0.630402671 -0.333527479
## 1560 0.266223657 -0.6011149240 -0.14922208 -0.204852800 -0.333527479
## 1561 -0.155784145 0.0047512134 -0.14922208 -0.311848335 -0.333527479
## 1562 -0.155784145 -0.6011149240 -0.14922208 0.164454371 -0.333527479
## 1563 0.565713065 1.8847181985 1.31945601 -0.082900899 -0.333527479
## 1564 -0.155784145 -0.6011149240 -0.14922208 0.111531848 -0.333527479
## 1565 -0.155784145 -0.6011149240 -0.14922208 0.624650223 -0.333527479
## 1566 -0.155784145 1.3634951245 -0.14922208 -0.311848335 -0.333527479
## 1567 -0.155784145 -0.4006445109 -0.14922208 0.525708115 0.459910316
## 1568 -0.155784145 0.1473079516 -0.14922208 -0.118566078 -0.333527479
## 1569 -0.155784145 -0.3516406321 -0.14922208 -0.311848335 -0.333527479
## 1570 -0.155784145 -0.6011149240 -0.14922208 0.419863069 -0.333527479
## 1571 -0.155784145 -0.0219781750 0.24796759 -0.311848335 -0.333527479
## 1572 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.333527479
## 1573 -0.019652596 -0.2313583842 -0.14922208 0.307115085 0.298607028
## 1574 -0.155784145 0.1963118304 -0.14922208 0.662616381 0.002157742
## 1575 0.520335882 0.7264447006 -0.14922208 -0.311848335 -0.333527479
## 1576 -0.155784145 -0.6011149240 1.64274993 -0.311848335 -0.333527479
## 1577 -0.155784145 -0.0130683788 -0.14922208 -0.286537564 -0.333527479
## 1578 -0.155784145 1.3055814496 -0.14922208 -0.311848335 -0.333527479
## 1579 1.055786642 2.9717133274 0.94074028 -0.311848335 -0.333527479
## 1580 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1581 0.856127036 0.1205785632 0.62668333 -0.311848335 -0.268134255
## 1582 -0.155784145 2.8247016911 -0.14922208 -0.311848335 -0.333527479
## 1583 -0.155784145 -0.6011149240 -0.14922208 0.316319002 -0.333527479
## 1584 -0.155784145 -0.6011149240 -0.14922208 0.246139135 -0.333527479
## 1585 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1586 0.275299094 1.0917463423 1.60580205 -0.093255306 -0.333527479
## 1587 -0.155784145 -0.6011149240 -0.14922208 0.416411600 -0.058875935
## 1588 -0.155784145 -0.6011149240 -0.14922208 -0.024225928 -0.333527479
## 1589 -0.155784145 1.0471973616 -0.14922208 -0.099007754 -0.333527479
## 1590 -0.155784145 -0.1912643016 -0.14922208 0.114983317 -0.132988256
## 1591 -0.155784145 -0.1689898113 -0.14922208 -0.293440501 -0.050156838
## 1592 -0.155784145 -0.0754369518 -0.14922208 -0.311848335 0.180899223
## 1593 -0.155784145 -0.6011149240 -0.14922208 0.570577211 0.778157345
## 1594 -0.155784145 -0.6011149240 -0.14922208 0.072415201 -0.333527479
## 1595 -0.155784145 2.3212982093 -0.14922208 0.044803450 -0.333527479
## 1596 -0.060492061 -0.4140092051 -0.14922208 0.106929890 -0.054516386
## 1597 -0.155784145 4.0631633543 -0.14922208 -0.311848335 -0.333527479
## 1598 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1599 -0.101331526 -0.2536328746 -0.14922208 0.193216612 1.868044427
## 1600 -0.155784145 2.1965610634 -0.14922208 -0.311848335 -0.333527479
## 1601 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 1602 0.220846474 0.1428530536 0.15559790 -0.311848335 -0.189662385
## 1603 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1604 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1605 -0.155784145 0.4858802049 0.41423304 -0.031128866 -0.333527479
## 1606 -0.155784145 -0.3026367533 -0.14922208 -0.311848335 -0.333527479
## 1607 -0.155784145 0.2007667285 -0.14922208 -0.311848335 -0.333527479
## 1608 -0.155784145 -0.1333506267 -0.14922208 -0.069095024 -0.333527479

```

```

## 1609 -0.155784145 -0.6011149240 -0.14922208 0.225430322 -0.333527479
## 1610 -0.155784145 22.9073821862 -0.14922208 -0.009269563 -0.333527479
## 1611 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1612 -0.155784145 0.4546959184 -0.14922208 0.568276231 1.044089793
## 1613 -0.155784145 -0.3115465495 0.45118091 -0.011570542 -0.050156838
## 1614 -0.055954343 -0.4050994089 -0.14922208 0.450926289 -0.333527479
## 1615 -0.155784145 -0.6011149240 -0.14922208 1.010064249 -0.333527479
## 1616 -0.155784145 -0.2536328746 -0.14922208 0.185163185 1.549797399
## 1617 -0.155784145 -0.0709820537 -0.14922208 -0.038031804 -0.076314128
## 1618 -0.155784145 -0.3471857340 -0.14922208 1.134317129 -0.333527479
## 1619 -0.155784145 1.4392283916 -0.14922208 -0.048386210 -0.333527479
## 1620 -0.155784145 -0.6011149240 -0.14922208 -0.171488601 -0.333527479
## 1621 -0.155784145 -0.1778996074 -0.14922208 -0.161134194 -0.023999548
## 1622 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1623 -0.155784145 -0.2269034862 -0.14922208 0.467033144 0.773797796
## 1624 -0.155784145 -0.6011149240 2.29857473 0.812180033 1.397213207
## 1625 -0.155784145 -0.6011149240 -0.14922208 0.624650223 -0.333527479
## 1626 -0.155784145 -0.4407385935 -0.14922208 -0.270430709 0.468629413
## 1627 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1628 -0.155784145 1.8357143198 -0.14922208 -0.311848335 -0.333527479
## 1629 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1630 -0.155784145 0.6150722489 -0.14922208 -0.311848335 -0.333527479
## 1631 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1632 -0.155784145 -0.4674679819 -0.14922208 -0.242818958 -0.137347805
## 1633 -0.155784145 0.0181159076 -0.14922208 -0.311848335 -0.333527479
## 1634 -0.155784145 -0.2179936900 -0.14922208 -0.311848335 -0.333527479
## 1635 -0.155784145 0.2809548937 -0.14922208 -0.084051389 0.529663090
## 1636 -0.155784145 0.0983040729 -0.14922208 0.230032280 -0.333527479
## 1637 -0.155784145 1.0382875654 -0.14922208 -0.100158244 -0.333527479
## 1638 -0.155784145 -0.6011149240 -0.14922208 0.464732165 -0.333527479
## 1639 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1640 -0.155784145 -0.1378055248 -0.14922208 0.291008231 -0.333527479
## 1641 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1642 -0.155784145 0.5215193894 -0.14922208 1.624425711 0.398876640
## 1643 -0.155784145 3.2657365999 -0.14922208 3.017668653 3.450560470
## 1644 -0.155784145 -0.6011149240 -0.14922208 -0.211755738 -0.333527479
## 1645 -0.051416624 -0.3961896128 -0.14922208 -0.311848335 -0.233257868
## 1646 -0.155784145 0.0181159076 1.13471663 -0.311848335 -0.333527479
## 1647 -0.155784145 -0.6011149240 -0.14922208 -0.237066510 -0.333527479
## 1648 -0.155784145 -0.6011149240 -0.14922208 0.785718771 -0.333527479
## 1649 -0.155784145 0.8378171523 0.34033729 -0.311848335 -0.333527479
## 1650 0.397817488 1.0293777693 -0.14922208 -0.311848335 -0.333527479
## 1651 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1652 -0.155784145 -0.0843467480 -0.14922208 0.088522056 -0.333527479
## 1653 -0.155784145 -0.2046289958 -0.14922208 -0.209454758 0.442472123
## 1654 0.297987685 -0.6011149240 -0.14922208 0.264546969 0.974337019
## 1655 -0.155784145 -0.6011149240 -0.14922208 0.370392015 0.612494508
## 1656 -0.092256089 0.0849393787 0.10941306 -0.311848335 -0.211460126
## 1657 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1658 -0.155784145 -0.1823545055 -0.14922208 -0.257775323 -0.333527479
## 1659 -0.155784145 -0.5298365549 -0.14922208 0.708635966 -0.194021933
## 1660 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1661 -0.155784145 0.5259742875 2.18773110 -0.311848335 -0.333527479
## 1662 -0.155784145 0.0359354999 -0.14922208 -0.311848335 -0.333527479

```



```

## 1663 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1664 -0.155784145 0.5660683701 -0.14922208 0.993957394 1.187954887
## 1665 -0.155784145 1.9738161599 -0.14922208 -0.311848335 -0.333527479
## 1666 -0.155784145 -0.2714524669 -0.14922208 0.162153392 1.462606432
## 1667 0.166393854 0.0359354999 -0.14922208 -0.311848335 -0.333527479
## 1668 -0.155784145 -0.3605504282 -0.14922208 -0.123168036 -0.098111870
## 1669 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 0.172180127
## 1670 -0.155784145 -0.2536328746 -0.14922208 0.186313674 1.554156947
## 1671 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1672 -0.155784145 0.2809548937 -0.14922208 -0.197949862 -0.333527479
## 1673 0.856127036 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1674 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1675 -0.155784145 -0.6011149240 1.71664568 0.152949475 0.682247281
## 1676 -0.155784145 -0.6011149240 -0.14922208 -0.115114609 0.411955285
## 1677 -0.155784145 0.9803738905 -0.14922208 0.096575483 -0.333527479
## 1678 -0.105869244 -0.2580877726 -0.14922208 0.073565690 5.251053931
## 1679 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1680 -0.155784145 0.0582099903 -0.14922208 -0.311848335 -0.333527479
## 1681 -0.155784145 0.5705232682 -0.14922208 -0.311848335 -0.333527479
## 1682 -0.155784145 -0.2358132823 -0.14922208 -0.311848335 0.023955484
## 1683 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1684 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1685 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1686 -0.155784145 0.0893942767 -0.14922208 -0.223260634 -0.333527479
## 1687 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1688 -0.155784145 -0.6011149240 1.19013844 -0.145027339 0.935101084
## 1689 -0.155784145 1.4748675762 -0.14922208 -0.311848335 -0.333527479
## 1690 -0.155784145 -0.3115465495 -0.14922208 0.151798985 0.176539675
## 1691 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1692 -0.155784145 -0.4407385935 -0.14922208 0.862801576 0.935101084
## 1693 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1694 -0.155784145 -0.1868094035 -0.14922208 0.029847085 0.346562060
## 1695 0.062026333 0.9090955214 -0.14922208 -0.256624833 -0.333527479
## 1696 -0.155784145 1.4124990032 -0.14922208 2.984304454 0.978696568
## 1697 -0.155784145 0.4012371416 -0.14922208 0.207022488 1.828808492
## 1698 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1699 -0.155784145 0.6239820450 0.69134211 0.110381359 -0.333527479
## 1700 -0.155784145 0.2230412188 -0.14922208 0.113832828 -0.067595031
## 1701 -0.155784145 1.5862400279 1.35640388 -0.311848335 -0.333527479
## 1702 -0.155784145 -0.2135387920 -0.14922208 -0.211755738 -0.333527479
## 1703 -0.155784145 0.1294883594 -0.14922208 -0.186444966 -0.098111870
## 1704 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1705 -0.155784145 -0.6011149240 -0.14922208 -0.109362161 -0.333527479
## 1706 -0.155784145 -0.6011149240 -0.14922208 0.097725973 0.180899223
## 1707 -0.155784145 -0.0843467480 0.04475427 -0.272731688 -0.333527479
## 1708 -0.042341188 -0.2224485881 -0.14922208 -0.263527771 -0.333527479
## 1709 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1710 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1711 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1712 -0.155784145 0.7977230697 -0.14922208 -0.168037132 -0.333527479
## 1713 -0.155784145 1.3278559399 -0.14922208 -0.311848335 0.006517290
## 1714 -0.155784145 -0.6011149240 -0.14922208 0.646509526 -0.333527479
## 1715 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479
## 1716 -0.155784145 -0.6011149240 -0.14922208 -0.311848335 -0.333527479

```

## 1717	-0.155784145	-0.5253816568	-0.14922208	0.004536313	0.564539476
## 1718	-0.155784145	0.4591508165	-0.14922208	0.569426721	1.048449341
## 1719	-0.155784145	0.6863506180	-0.14922208	4.023196589	-0.333527479
## 1720	-0.155784145	1.4704126781	-0.14922208	-0.311848335	-0.333527479
## 1721	-0.155784145	-0.3605504282	0.47889182	0.112682338	0.141663288
## 1722	-0.155784145	1.0917463423	-0.14922208	-0.311848335	-0.333527479
## 1723	0.220846474	0.1428530536	-0.14922208	0.265697459	-0.333527479
## 1724	-0.155784145	0.2631353014	1.64274993	-0.311848335	-0.333527479
##	V54	V55	V56	V57	V58
## 1	-0.134684699	-0.0848742899	-0.2731124978	-0.423131599	0
## 2	-0.134684699	-0.0847231174	-0.0931187695	0.680792554	0
## 3	-0.134684699	-0.0909211903	-0.2183317979	0.811628009	0
## 4	-0.134684699	-0.1163484065	-0.3591964548	-0.498770847	0
## 5	-0.134684699	-0.1129319078	-0.3044157549	-0.402688559	0
## 6	-0.134684699	-0.1055546893	-0.2652866835	-0.441530335	0
## 7	-0.134684699	-0.1021684251	-0.2887641263	-0.282074624	0
## 8	-0.134684699	-0.1084572015	-0.2574608692	-0.472194895	0
## 9	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 10	-0.134684699	0.1285812939	0.7677208005	1.768362276	1
## 11	-0.134684699	3.0371101473	2.7711292543	0.533602667	1
## 12	-0.134684699	-0.1145948054	-0.3044157549	-0.439486031	1
## 13	-0.134684699	-0.0774366025	-0.0226864410	1.680457204	0
## 14	-0.134684699	-0.1104224441	-0.2887641263	-0.318872096	0
## 15	-0.134684699	0.2055885703	1.7381217703	0.619463435	1
## 16	1.680665928	0.1164572586	-0.0305122553	-0.359758175	1
## 17	-0.134684699	-0.1264467301	-0.3670222690	-0.519213887	0
## 18	-0.134684699	-0.1223953069	-0.3591964548	-0.521258190	0
## 19	1.742995563	0.0137204209	-0.0539896981	0.294419101	0
## 20	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 21	-0.134684699	-0.0618053650	-0.0226864410	-0.392467039	0
## 22	1.407973774	-0.0851161660	-0.3122415691	-0.470150591	0
## 23	-0.134684699	-0.0928561985	-0.3044157549	-0.464017679	0
## 24	-0.134684699	-0.0799763006	0.0007910018	0.159495037	0
## 25	0.157485467	-0.0599005913	-0.2261576121	-0.210523984	0
## 26	-0.134684699	-0.0936725300	-0.2026801693	0.924064729	0
## 27	-0.134684699	-0.1283515038	-0.3670222690	-0.482416415	1
## 28	-0.134684699	-0.1137482393	-0.3435448262	-0.359758175	0
## 29	-0.134684699	-0.0609285644	-0.3278931977	-0.527391102	0
## 30	-0.134684699	-0.1232418729	-0.3591964548	-0.519213887	0
## 31	-0.134684699	-0.1032568671	-0.3278931977	-0.488549327	0
## 32	-0.134684699	-0.0740201037	-0.1713769122	-0.369979695	1
## 33	-0.134684699	-0.1190997462	-0.2574608692	-0.196213856	0
## 34	-0.134684699	-0.0973006702	-0.2731124978	-0.447663247	0
## 35	-0.134684699	-0.0670359338	-0.2887641263	-0.304561968	1
## 36	-0.134684699	-0.1221231963	-0.3278931977	-0.435397423	0
## 37	-0.134684699	-0.1068850074	-0.2887641263	-0.329093616	0
## 38	-0.134684699	-0.1314656575	-0.3826738976	-0.527391102	0
## 39	-0.134684699	-0.0280636608	1.1120566285	0.075678574	1
## 40	-0.134684699	-0.0359246313	-0.0148606268	1.782672404	1
## 41	-0.134684699	-0.1314656575	-0.3826738976	-0.543745534	1
## 42	-0.134684699	-0.1239070320	-0.3748480833	-0.527391102	0
## 43	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 44	-0.134684699	-0.0740201037	-0.1713769122	-0.369979695	1
## 45	0.044513003	-0.0065064609	0.6425077721	1.498514149	1

## 46	0.286040339	-0.0784343410	-0.1948543550	-0.226878416	0
## 47	-0.134684699	-0.1138389428	-0.3278931977	-0.470150591	0
## 48	-0.134684699	-0.1213975683	-0.3591964548	-0.523302494	0
## 49	-0.134684699	-0.1078525114	-0.2965899406	-0.314783488	1
## 50	-0.134684699	-0.1087897810	-0.3591964548	-0.519213887	0
## 51	-0.134684699	-0.1226371829	-0.3591964548	-0.376112607	0
## 52	-0.134684699	-0.1314656575	-0.3826738976	-0.525346798	0
## 53	0.126320649	0.0020196687	0.6425077721	1.478071109	1
## 54	-0.134684699	-0.1176182556	-0.3357190120	-0.476283503	0
## 55	-0.134684699	-0.1129923768	-0.3357190120	-0.488549327	0
## 56	-0.134684699	-0.0659777262	-0.2418092407	-0.314783488	1
## 57	-0.134684699	-0.0649497532	-0.2965899406	-0.515125279	0
## 58	-0.134684699	-0.1012311555	-0.3513706405	-0.531479710	0
## 59	-0.134684699	-0.0970890287	-0.0226864410	-0.325005008	0
## 60	-0.134684699	-0.1012311555	-0.2887641263	-0.461973375	0
## 61	-0.134684699	-0.0004595605	-0.2496350550	-0.482416415	0
## 62	0.706765377	-0.0962122282	-0.3435448262	-0.468106287	0
## 63	-0.134684699	-0.1199765467	-0.3591964548	-0.488549327	0
## 64	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 65	-0.134684699	-0.0679732033	-0.3044157549	-0.484460719	0
## 66	-0.134684699	-0.0906490798	-0.2809383120	-0.163504993	0
## 67	-0.134684699	-0.0788273896	-0.3044157549	-0.374068303	0
## 68	-0.033399041	-0.0309057040	-0.1713769122	1.132583736	0
## 69	-0.134684699	-0.1020777216	-0.2418092407	-0.249365760	1
## 70	-0.134684699	-0.0619263030	-0.2887641263	-0.412910079	0
## 71	-0.134684699	-0.1012311555	-0.2809383120	-0.183948033	1
## 72	0.671704957	-0.0834532684	-0.0774671410	-0.277986016	0
## 73	-0.134684699	-0.0488649981	0.3138235727	0.108387438	0
## 74	-0.134684699	-0.0626821655	-0.2809383120	-0.353625264	1
## 75	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 76	-0.134684699	-0.1093037675	-0.2965899406	0.355748220	1
## 77	-0.134684699	-0.0919793979	-0.2418092407	-0.132840433	0
## 78	0.153589864	-0.0314499250	-0.1713769122	0.051146926	0
## 79	-0.134684699	-0.1113294792	-0.2965899406	-0.425175903	1
## 80	-0.134684699	-0.0898932173	-0.2418092407	-0.042891057	1
## 81	-0.134684699	-0.1028335841	-0.3357190120	-0.396555647	0
## 82	-0.134684699	-0.1225767139	-0.3513706405	-0.457884767	0
## 83	-0.134684699	-0.0256449006	-0.1948543550	-0.437441727	1
## 84	-0.134684699	-0.0928864330	-0.2339834264	0.443653292	0
## 85	-0.134684699	-0.1246628945	-0.3513706405	-0.447663247	0
## 86	-0.134684699	-0.1012311555	-0.3591964548	-0.535568318	0
## 87	-0.134684699	-0.1314656575	-0.3826738976	-0.527391102	0
## 88	0.067886616	-0.0663707747	0.0555717017	-0.044935361	0
## 89	-0.134684699	-0.1235139834	-0.3122415691	-0.008137890	1
## 90	-0.134684699	-0.1170740345	-0.3278931977	-0.421087295	0
## 91	-0.134684699	-0.0594470738	0.0242684446	-0.222789808	0
## 92	-0.134684699	-0.1125690937	-0.3435448262	-0.521258190	0
## 93	-0.134684699	-0.1113294792	-0.3670222690	-0.537612622	0
## 94	-0.134684699	-0.1169530965	-0.3200673834	-0.472194895	0
## 95	-0.134684699	-0.1012311555	-0.3591964548	-0.531479710	0
## 96	-0.134684699	-0.0558189336	0.2277396157	0.691014074	1
## 97	-0.134684699	0.0045896013	-0.3122415691	-0.525346798	0
## 98	-0.134684699	-0.1213975683	-0.3591964548	-0.523302494	0
## 99	-0.134684699	-0.1158344199	-0.2965899406	-0.104220177	1

## 100	-0.134684699	-0.1220324928	-0.3670222690	-0.504903759	1
## 101	-0.134684699	-0.1206719403	-0.2418092407	-0.245277152	1
## 102	0.063991014	0.1301232535	0.7911982433	1.267507799	1
## 103	-0.134684699	0.0057385124	-0.0696413267	-0.400644255	1
## 104	-0.134684699	-0.1105433821	-0.3513706405	-0.502859455	0
## 105	-0.134684699	-0.0709966535	-0.2574608692	-0.443574639	0
## 106	-0.134684699	-0.0400969925	0.3686042726	0.562222923	1
## 107	-0.134684699	-0.0930073710	-0.2026801693	0.525425451	0
## 108	-0.134684699	-0.0886233682	-0.1322478409	-0.216656896	1
## 109	-0.134684699	-0.0844510069	-0.2183317979	-0.312739184	1
## 110	0.173067875	0.3443951688	0.7598949862	0.239222893	1
## 111	1.739099961	0.0639701632	-0.0539896981	0.306684925	0
## 112	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 113	-0.134684699	-0.0059017708	0.0399200731	-0.410865775	0
## 114	-0.134684699	-0.1012311555	-0.3513706405	-0.531479710	0
## 115	2.354605109	1.4538199835	3.4754525388	2.729185150	1
## 116	-0.134684699	-0.0846021794	-0.0539896981	-0.083777137	0
## 117	5.584059335	0.0499413543	-0.1165962123	0.010260846	1
## 118	-0.134684699	-0.0972402012	-0.1557252837	-0.085821441	1
## 119	-0.134684699	-0.1177391936	-0.3513706405	-0.515125279	0
## 120	-0.134684699	-0.0878070366	-0.3122415691	-0.457884767	1
## 121	-0.134684699	-0.0915258804	-0.2183317979	-0.414954383	0
## 122	-0.134684699	-0.0945190961	-0.3278931977	-0.506948063	0
## 123	-0.134684699	-0.1104224441	-0.2731124978	-0.433353119	0
## 124	-0.134684699	-0.1245117220	-0.3591964548	-0.515125279	0
## 125	-0.134684699	-0.1221836654	-0.3670222690	-0.513080975	0
## 126	-0.134684699	-0.1156530129	-0.3044157549	-0.220745504	0
## 127	-0.134684699	-0.1020172526	-0.1244220266	-0.079688529	1
## 128	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 129	-0.134684699	-0.0398551165	-0.1713769122	-0.275941712	0
## 130	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 131	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 132	-0.134684699	-0.0902560313	-0.3513706405	-0.441530335	0
## 133	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 134	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 135	-0.134684699	-0.1015335005	-0.2809383120	-0.108308785	0
## 136	-0.134684699	0.0184974722	0.0320942589	0.999703976	1
## 137	-0.134684699	-0.0969680907	-0.0931187695	-0.114441697	1
## 138	-0.134684699	-0.1234232799	-0.3670222690	-0.508992367	0
## 139	-0.134684699	-0.1247535980	-0.3591964548	-0.502859455	0
## 140	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 141	-0.134684699	0.0031988142	0.1416556587	-0.179859425	1
## 142	-0.134684699	-0.1247535980	-0.3513706405	-0.480372111	0
## 143	-0.048981450	-0.0564236236	-0.3513706405	11.517647993	0
## 144	-0.134684699	0.0277492298	-0.0696413267	-0.355669567	1
## 145	-0.134684699	-0.1052523443	-0.2809383120	0.517248235	1
## 146	-0.134684699	-0.1036801502	-0.2887641263	-0.206435376	0
## 147	-0.134684699	-0.0928259640	-0.2026801693	0.738033066	0
## 148	-0.134684699	-0.0520698553	-0.0461638839	1.476026805	1
## 149	-0.134684699	-0.1206719403	-0.3513706405	-0.508992367	1
## 150	-0.013921030	-0.0476858525	0.1494814729	0.531558363	1
## 151	-0.134684699	-0.0548816640	1.0259726715	2.810957309	1
## 152	-0.134684699	-0.0374061219	-0.2339834264	-0.093998657	1
## 153	-0.134684699	-0.1173159105	-0.3278931977	-0.355669567	1

## 154	-0.134684699	-0.1115108862	-0.2339834264	0.772786234	0
## 155	-0.134684699	-0.1156530129	-0.3513706405	-0.482416415	0
## 156	-0.134684699	-0.0735061172	0.0790491445	-0.112397393	1
## 157	-0.134684699	-0.0999915409	-0.1478994694	-0.147150561	1
## 158	-0.134684699	-0.1012311555	-0.2418092407	-0.331137920	1
## 159	-0.134684699	0.1671605183	0.3373010155	0.541779883	1
## 160	-0.134684699	-0.0751690148	-0.2731124978	-0.378156911	0
## 161	-0.134684699	-0.0851766350	0.3059977584	0.104298830	1
## 162	-0.134684699	-0.0407621516	-0.2965899406	-0.490593631	1
## 163	0.075677820	0.2802980247	3.7180527813	1.334969830	1
## 164	-0.134684699	-0.1219417893	-0.3591964548	-0.496726543	0
## 165	-0.134684699	-0.0971494977	-0.2887641263	-0.290251840	0
## 166	-0.134684699	-0.1005357620	-0.1792027265	0.870912825	0
## 167	0.917127896	0.8058039031	0.1964363586	-0.220745504	1
## 168	-0.134684699	-0.1198556087	-0.3591964548	-0.511036671	0
## 169	-0.134684699	-0.0709966535	-0.2652866835	-0.480372111	1
## 170	-0.134684699	-0.0955773036	-0.2809383120	-0.404732863	0
## 171	-0.134684699	-0.0329314156	0.2746945013	6.235166489	1
## 172	-0.134684699	-0.0963331662	-0.3278931977	-0.384289823	1
## 173	-0.134684699	-0.0099531941	-0.2496350550	-0.014270802	1
## 174	0.013348185	-0.0673080443	0.1573072872	0.594931787	0
## 175	-0.134684699	-0.1028940531	-0.3357190120	-0.257542976	0
## 176	-0.134684699	-0.1035289776	-0.3200673834	-0.339315136	0
## 177	-0.134684699	-0.1131133148	-0.3435448262	-0.455840463	0
## 178	-0.134684699	-0.0844812414	-0.2731124978	-0.114441697	0
## 179	-0.134684699	-0.0056901293	0.4468624153	0.042969710	1
## 180	-0.037294644	0.0394197476	0.2042621729	0.744165978	1
## 181	-0.134684699	-0.1129923768	-0.3122415691	-0.488549327	0
## 182	0.083469025	-0.1074896974	-0.2261576121	-0.192125248	0
## 183	-0.037294644	0.0394197476	0.2042621729	0.744165978	1
## 184	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 185	0.025034992	0.0178323132	0.7755466148	1.612995173	1
## 186	-0.134684699	-0.1314656575	-0.3826738976	-0.529435406	0
## 187	-0.134684699	-0.0976937188	-0.2965899406	-0.327049312	0
## 188	-0.134684699	-0.1276863447	-0.3748480833	-0.529435406	0
## 189	-0.134684699	-0.0342617337	0.7364175434	0.813672313	1
## 190	-0.134684699	-0.1223953069	-0.3513706405	-0.494682239	0
## 191	-0.134684699	-0.1113294792	-0.3670222690	-0.527391102	0
## 192	-0.134684699	-0.0823345918	-0.0226864410	-0.376112607	0
## 193	-0.134684699	-0.0153651699	-0.2339834264	0.629684955	0
## 194	-0.134684699	-0.0306940624	-0.2887641263	-0.388378431	1
## 195	-0.134684699	-0.1276863447	-0.3748480833	-0.529435406	0
## 196	-0.134684699	-0.0239820030	0.0086168160	-0.296384752	1
## 197	0.371743588	-0.0566352651	-0.3357190120	-0.263675888	0
## 198	-0.134684699	-0.1166205170	-0.3044157549	-0.002004978	0
## 199	-0.134684699	-0.0817903707	-0.1244220266	-0.153283473	0
## 200	-0.134684699	-0.1273537652	-0.3513706405	-0.327049312	0
## 201	-0.134684699	-0.1120551072	-0.3591964548	-0.500815151	0
## 202	0.040617400	0.0837132930	0.3686042726	0.298507709	0
## 203	-0.134684699	-0.0848742899	-0.2965899406	-0.423131599	0
## 204	-0.134684699	-0.0876860986	-0.2652866835	-0.257542976	1
## 205	0.780781819	-0.0552444780	-0.0852929552	0.308729228	1
## 206	-0.134684699	-0.1108457271	-0.2183317979	-0.406777167	0
## 207	-0.134684699	-0.0615634889	-0.3044157549	-0.439486031	0

## 208	-0.134684699	-0.1067338349	-0.2887641263	0.396634300	1
## 209	0.200337091	0.7873003879	2.6772194830	0.607197611	1
## 210	-0.134684699	0.0553835646	1.0337984858	0.186070989	1
## 211	-0.134684699	-0.1247535980	-0.3591964548	-0.502859455	0
## 212	-0.134684699	-0.1098782231	-0.3435448262	-0.523302494	0
## 213	-0.134684699	-0.0806414597	-0.3044157549	-0.427220207	1
## 214	-0.134684699	-0.0386457365	-0.0148606268	0.625596347	1
## 215	-0.134684699	-0.1085479050	-0.3044157549	-0.443574639	0
## 216	-0.134684699	-0.1145343364	-0.3435448262	-0.468106287	0
## 217	-0.134684699	-0.1106945546	-0.3122415691	-0.492637935	0
## 218	-0.134684699	-0.0985100503	-0.3357190120	-0.500815151	0
## 219	-0.134684699	-0.1169530965	-0.3357190120	-0.396555647	0
## 220	-0.134684699	-0.1190392772	-0.2731124978	-0.351580960	0
## 221	-0.134684699	-0.0763481604	0.2746945013	-0.057201185	1
## 222	-0.134684699	-0.1151994954	-0.3044157549	-0.384289823	0
## 223	-0.134684699	-0.0428180977	0.0868749588	0.047058318	1
## 224	-0.134684699	-0.1165298135	-0.3122415691	-0.263675888	1
## 225	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 226	-0.134684699	-0.1087897810	-0.3670222690	-0.519213887	0
## 227	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	1
## 228	-0.134684699	0.0808107808	0.1260040301	0.977216632	0
## 229	-0.134684699	-0.1223953069	-0.3357190120	-0.335226528	0
## 230	-0.134684699	-0.0885628992	-0.1792027265	0.594931787	0
## 231	-0.134684699	-0.0903165003	-0.1557252837	-0.374068303	0
## 232	-0.037294644	-0.0930376055	-0.0070348125	0.325083660	1
## 233	0.484716052	0.0219139710	1.1198824428	5.672982892	1
## 234	-0.087937472	-0.1001124789	-0.2496350550	1.318615398	0
## 235	26.729388090	-0.0969378562	-0.3278931977	-0.425175903	0
## 236	-0.134684699	-0.0847533519	-0.2496350550	-0.204391072	0
## 237	-0.134684699	-0.0915863494	-0.2965899406	-0.325005008	0
## 238	-0.134684699	-0.0771342574	0.6033787008	0.498849499	0
## 239	-0.134684699	-0.0379503429	0.2903461299	-0.012226498	0
## 240	-0.134684699	-0.0751690148	-0.0226864410	-0.378156911	0
## 241	-0.134684699	-0.0744131523	-0.0383380696	1.240931847	0
## 242	0.383430394	0.0375452085	5.3927770357	4.221527061	1
## 243	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 244	-0.134684699	-0.0755318288	-0.2731124978	-0.431308815	0
## 245	-0.134684699	-0.0528559524	-0.2652866835	-0.400644255	1
## 246	-0.134684699	-0.1085479050	-0.3357190120	-0.443574639	0
## 247	-0.134684699	-0.1289561938	-0.3748480833	-0.521258190	0
## 248	-0.134684699	-0.0675196858	-0.2418092407	-0.382245519	1
## 249	-0.134684699	-0.0374061219	-0.2339834264	-0.093998657	1
## 250	-0.134684699	-0.1216092098	-0.3435448262	-0.423131599	0
## 251	-0.134684699	-0.0972402012	-0.1557252837	-0.085821441	1
## 252	-0.134684699	-0.1163484065	-0.2731124978	-0.376112607	0
## 253	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 254	-0.134684699	-0.0609285644	-0.3278931977	-0.527391102	0
## 255	0.079573422	-0.1107550236	-0.3435448262	-0.427220207	0
## 256	-0.134684699	-0.1118132312	-0.2731124978	-0.190080944	1
## 257	-0.134684699	-0.0392806610	-0.0148606268	0.627640651	1
## 258	-0.134684699	-0.0746852628	0.2668686870	0.423210252	1
## 259	-0.134684699	-0.0906188453	-0.1713769122	0.490672283	0
## 260	-0.013921030	0.0632143006	5.0014863220	2.083185090	1
## 261	-0.134684699	-0.0923724464	-0.1400736551	0.427298860	1

## 262	-0.134684699	-0.0790692656	-0.3357190120	-0.464017679	0
## 263	-0.134684699	-0.1094851745	-0.3513706405	-0.508992367	0
## 264	-0.134684699	-0.0936725300	-0.3591964548	-0.511036671	0
## 265	-0.134684699	-0.0914049424	-0.1557252837	-0.357713871	0
## 266	-0.134684699	-0.0377387014	-0.1948543550	-0.380201215	1
## 267	-0.134684699	-0.1235139834	-0.3122415691	-0.008137890	1
## 268	-0.134684699	-0.1200067812	-0.3278931977	-0.466061983	1
## 269	-0.134684699	-0.0275194397	-0.1713769122	2.700564894	0
## 270	-0.134684699	-0.0751690148	-0.2731124978	-0.378156911	0
## 271	-0.134684699	-0.0223795744	-0.1165962123	0.318950748	0
## 272	0.761303808	-0.0854789800	-0.1478994694	0.509071019	0
## 273	-0.134684699	-0.0914956459	-0.2652866835	-0.400644255	1
## 274	-0.134684699	0.0735545003	-0.1400736551	-0.038802449	1
## 275	0.262666726	-0.0799158316	0.1807847300	0.204469725	1
## 276	-0.134684699	-0.1148064469	-0.2887641263	-0.392467039	0
## 277	0.348369974	-0.0826671713	0.1260040301	-0.243232848	1
## 278	0.508089665	-0.1078827459	-0.2887641263	-0.249365760	0
## 279	-0.087937472	-0.0594470738	0.2120879871	0.897488777	1
## 280	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
## 281	-0.134684699	0.4429898797	0.9320629002	-0.179859425	1
## 282	0.176963478	0.0517251899	0.8538047575	0.419121644	1
## 283	-0.134684699	-0.1239070320	-0.3670222690	-0.506948063	0
## 284	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 285	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 286	0.223710704	5.0688686786	2.8806906541	0.513159627	1
## 287	-0.134684699	-0.0922515084	-0.2965899406	-0.327049312	1
## 288	-0.134684699	-0.0150628249	-0.0226864410	-0.151239169	1
## 289	-0.134684699	0.1417333022	1.4485666422	1.688634420	0
## 290	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 291	-0.134684699	-0.0686988314	-0.3044157549	-0.466061983	0
## 292	-0.134684699	-0.1187974011	-0.3513706405	-0.457884767	0
## 293	-0.010025428	-0.0501650817	0.1494814729	0.545868491	1
## 294	-0.134684699	-0.1055546893	-0.2731124978	-0.335226528	0
## 295	-0.134684699	-0.1314656575	-0.3826738976	-0.502859455	0
## 296	-0.134684699	-0.1153506679	-0.3513706405	-0.500815151	0
## 297	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 298	1.470303409	0.2318623525	1.0416243000	2.485912975	1
## 299	-0.068459461	-0.0431204427	3.4363234675	6.139084201	1
## 300	-0.006129826	-0.0677917963	-0.1244220266	0.049102622	1
## 301	-0.134684699	-0.0845719449	-0.2965899406	-0.396555647	1
## 302	0.687287366	0.6187128050	0.4233849725	0.296463405	0
## 303	-0.134684699	-0.1061896138	-0.2887641263	-0.341359440	0
## 304	-0.134684699	-0.1094851745	-0.3591964548	-0.508992367	0
## 305	-0.134684699	-0.1151390264	-0.2496350550	-0.122618913	1
## 306	-0.134684699	-0.1122667487	-0.3435448262	-0.263675888	0
## 307	0.165276671	-0.0843300689	0.1964363586	0.247400109	1
## 308	-0.134684699	-0.0827578748	-0.2965899406	-0.451751855	1
## 309	-0.134684699	-0.1314656575	-0.3826738976	-0.527391102	0
## 310	-0.134684699	-0.0898932173	-0.3591964548	-0.508992367	0
## 311	-0.134684699	-0.1005962310	-0.2652866835	-0.353625264	1
## 312	-0.134684699	-0.0763481604	-0.0931187695	-0.057201185	1
## 313	-0.134684699	-0.0741712763	-0.2652866835	-0.038802449	0
## 314	-0.134684699	-0.1223953069	-0.3513706405	-0.494682239	0
## 315	-0.134684699	-0.0644357666	-0.1557252837	-0.396555647	1

## 316	-0.134684699	-0.0586912112	-0.0696413267	0.545868491	0
## 317	0.235397511	-0.0348966582	0.2668686870	0.909754601	1
## 318	-0.134684699	-0.1247535980	-0.3670222690	-0.525346798	0
## 319	-0.134684699	-0.0756225323	0.0790491445	-0.053112577	0
## 320	-0.134684699	-0.1079734494	-0.2965899406	-0.384289823	0
## 321	-0.134684699	-0.1190090426	-0.3200673834	-0.365891087	0
## 322	-0.134684699	0.0839551690	0.1964363586	-0.149194865	0
## 323	-0.134684699	-0.0558794026	-0.0305122553	-0.333182224	1
## 324	-0.087937472	0.0662679853	4.8449700366	2.334634480	1
## 325	-0.134684699	-0.1135668323	-0.3278931977	-0.459929071	0
## 326	-0.134684699	0.0205231839	0.3216493869	-0.104220177	1
## 327	-0.134684699	-0.1161669995	-0.2965899406	-0.304561968	0
## 328	-0.134684699	-0.0818206052	-0.3200673834	-0.472194895	0
## 329	-0.134684699	-0.1199765467	-0.3591964548	-0.488549327	0
## 330	-0.134684699	-0.0621984135	-0.2261576121	-0.386334127	0
## 331	-0.134684699	0.1115895038	0.7677208005	1.799026835	1
## 332	-0.134684699	0.0045896013	-0.3200673834	-0.525346798	0
## 333	-0.134684699	-0.0541258015	-0.1948543550	-0.300473360	1
## 334	-0.134684699	-0.0361362728	-0.1244220266	-0.216656896	0
## 335	-0.134684699	-0.0963634007	-0.2418092407	-0.083777137	0
## 336	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 337	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 338	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 339	-0.134684699	-0.0537327529	-0.3044157549	-0.394511343	0
## 340	-0.134684699	-0.1165298135	-0.3122415691	-0.263675888	1
## 341	3.328505659	0.2148403279	0.4468624153	1.692723028	1
## 342	0.223710704	-0.0022433961	0.7520691719	1.457628070	1
## 343	-0.134684699	0.1615671355	0.1181782159	-0.263675888	1
## 344	-0.134684699	-0.0917072874	-0.2574608692	-0.367935391	0
## 345	-0.080146268	0.0480365806	4.8449700366	1.933950899	1
## 346	-0.134684699	-0.1052825788	-0.2574608692	-0.318872096	0
## 347	-0.134684699	-0.0478974941	0.2746945013	2.361210432	0
## 348	-0.134684699	-0.0631659175	-0.1557252837	-0.188036641	1
## 349	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 350	-0.134684699	-0.1012311555	-0.3513706405	-0.519213887	0
## 351	-0.134684699	-0.1114201827	-0.3122415691	-0.204391072	0
## 352	0.399012803	-0.0694244594	-0.2887641263	-0.310694880	0
## 353	0.352265577	0.0560487237	4.2658597804	4.385071380	1
## 354	-0.134684699	0.0079153966	-0.0618155124	0.128830478	0
## 355	-0.134684699	-0.0407621516	-0.3044157549	-0.408821471	0
## 356	-0.134684699	-0.1289561938	-0.3748480833	-0.521258190	0
## 357	-0.134684699	-0.0114044502	-0.0774671410	0.539735579	1
## 358	3.468747339	0.0153833185	-0.2652866835	-0.464017679	0
## 359	-0.134684699	-0.0374061219	-0.2339834264	-0.093998657	1
## 360	-0.134684699	-0.1055546893	-0.2652866835	-0.441530335	0
## 361	0.706765377	-0.0962122282	-0.3435448262	-0.468106287	0
## 362	-0.134684699	-0.1012311555	-0.3513706405	-0.531479710	0
## 363	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 364	-0.134684699	-0.1050104682	-0.3591964548	-0.517169583	0
## 365	0.660018151	-0.0975727808	-0.3122415691	-0.369979695	0
## 366	-0.134684699	-0.1127505007	-0.2965899406	-0.408821471	0
## 367	-0.134684699	-0.0558794026	-0.3200673834	-0.504903759	0
## 368	-0.134684699	-0.0834532684	-0.1635510980	-0.367935391	0
## 369	-0.134684699	-0.0343826717	0.2433912442	0.838203961	0



## 370	-0.134684699	-0.0995380234	0.1181782159	0.196292509	0
## 371	-0.134684699	-0.1307400294	-0.3670222690	-0.286163232	0
## 372	-0.134684699	-0.0807926322	-0.2574608692	-0.361802479	1
## 373	-0.134684699	-0.0256449006	-0.1244220266	-0.235055632	0
## 374	-0.134684699	-0.0886233682	-0.0696413267	0.435476076	1
## 375	-0.134684699	-0.1119946382	-0.2887641263	-0.396555647	0
## 376	-0.134684699	-0.0862348425	-0.2652866835	0.110431742	0
## 377	-0.134684699	-0.1081548564	-0.3513706405	-0.421087295	0
## 378	0.769095012	-0.0669754648	0.5564238151	0.983349544	0
## 379	-0.134684699	-0.0823950608	-0.1165962123	-0.049023969	1
## 380	-0.134684699	-0.0856301525	-0.2574608692	-0.388378431	1
## 381	-0.134684699	-0.1228488244	-0.3591964548	-0.492637935	0
## 382	-0.134684699	-0.0861139045	-0.3200673834	-0.517169583	0
## 383	-0.134684699	2.0303012323	1.8555089844	0.045014014	1
## 384	0.878171874	-0.0966959802	-0.3357190120	-0.459929071	1
## 385	-0.134684699	-0.0981774708	-0.3044157549	-0.251410064	1
## 386	-0.134684699	-0.0314196905	-0.0931187695	-0.063334097	0
## 387	0.157485467	-0.0599005913	-0.2261576121	-0.210523984	0
## 388	-0.134684699	-0.0007619055	0.1416556587	-0.177815121	1
## 389	-0.134684699	-0.1209742853	-0.3591964548	-0.484460719	0
## 390	-0.134684699	-0.0996589614	-0.2261576121	-0.468106287	0
## 391	-0.134684699	-0.1165298135	-0.3122415691	-0.263675888	1
## 392	-0.134684699	-0.1000520099	-0.2496350550	0.298507709	1
## 393	-0.134684699	0.0357009039	1.7694250274	0.813672313	1
## 394	-0.134684699	-0.0854487455	-0.2809383120	-0.320916400	1
## 395	-0.134684699	-0.1259932126	-0.3748480833	-0.521258190	1
## 396	-0.134684699	0.0057385124	-0.0696413267	-0.400644255	1
## 397	-0.134684699	-0.0394620680	-0.1713769122	-0.167593601	0
## 398	-0.134684699	-0.0917072874	-0.2965899406	-0.277986016	1
## 399	-0.134684699	-0.0813368532	-0.2026801693	0.631729259	0
## 400	-0.095728677	0.0665400958	1.7850766559	7.122394419	1
## 401	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 402	-0.134684699	-0.0969076217	0.4468624153	5.928520891	0
## 403	-0.134684699	-0.1314656575	-0.3826738976	-0.480372111	0
## 404	-0.134684699	-0.0399760545	0.3920817154	0.695102682	0
## 405	0.184754682	0.3470255705	0.7677208005	0.243311501	1
## 406	-0.087937472	0.0013242751	0.5407721866	2.428672464	1
## 407	-0.134684699	-0.1168926275	-0.3591964548	-0.459929071	0
## 408	-0.134684699	-0.0174815851	-0.0696413267	0.173805165	1
## 409	-0.134684699	-0.1247535980	-0.3670222690	-0.525346798	0
## 410	-0.134684699	-0.0911630663	-0.1478994694	-0.390422735	0
## 411	-0.134684699	-0.0050552048	-0.1948543550	-0.431308815	1
## 412	-0.134684699	13.2422522954	9.9787041994	2.171090161	1
## 413	-0.134684699	-0.1028335841	-0.3357190120	-0.396555647	0
## 414	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 415	-0.134684699	-0.0446624023	-0.1870285408	-0.239144240	1
## 416	-0.134684699	-0.1264467301	-0.3670222690	-0.504903759	0
## 417	-0.134684699	-0.1244210185	-0.3591964548	-0.472194895	0
## 418	-0.134684699	-0.1127505007	-0.3122415691	-0.408821471	0
## 419	-0.134684699	-0.0672173408	-0.2731124978	-0.445618943	0
## 420	-0.134684699	-0.1005962310	-0.2965899406	-0.353625264	1
## 421	-0.134684699	-0.1084572015	-0.3513706405	-0.472194895	0
## 422	-0.134684699	-0.1257211021	-0.3670222690	-0.496726543	0
## 423	-0.134684699	-0.1002334169	-0.2652866835	-0.302517664	1

## 424	-0.134684699	-0.0855394490	-0.0305122553	-0.280030320	0
## 425	-0.134684699	-0.0969680907	-0.0931187695	-0.114441697	1
## 426	-0.084041870	0.0240001516	4.1719500091	2.189488897	1
## 427	-0.134684699	-0.1163484065	-0.3591964548	-0.511036671	0
## 428	-0.134684699	-0.0415180141	-0.0226864410	0.443653292	1
## 429	-0.134684699	-0.1314656575	-0.3826738976	-0.525346798	0
## 430	-0.134684699	-0.1190695117	-0.3513706405	-0.386334127	0
## 431	-0.134684699	-0.1167414550	-0.3591964548	-0.423131599	0
## 432	-0.134684699	-0.0741712763	-0.2652866835	-0.038802449	0
## 433	0.095155831	-0.0858115595	-0.2965899406	-0.296384752	0
## 434	-0.134684699	-0.1223953069	-0.3591964548	-0.521258190	0
## 435	-0.134684699	-0.0528559524	-0.2652866835	-0.400644255	1
## 436	-0.134684699	-0.1175275521	-0.3670222690	-0.508992367	1
## 437	-0.134684699	-0.1055546893	-0.3513706405	-0.521258190	0
## 438	-0.134684699	-0.0650706912	-0.1400736551	0.484539371	0
## 439	-0.134684699	-0.0863557805	-0.2965899406	-0.196213856	1
## 440	-0.134684699	-0.0697570390	-0.1244220266	-0.249365760	0
## 441	-0.134684699	-0.0294242134	0.0399200731	-0.404732863	0
## 442	1.310583718	0.0050431189	-0.1244220266	-0.175770817	0
## 443	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 444	-0.134684699	-0.1314656575	-0.3826738976	-0.484460719	1
## 445	0.079573422	-0.1107550236	-0.3435448262	-0.427220207	0
## 446	0.348369974	-0.0436646638	-0.1713769122	-0.212568288	0
## 447	-0.134684699	-0.1166507515	-0.2418092407	-0.380201215	1
## 448	0.527567676	-0.0824252953	-0.0226864410	-0.263675888	1
## 449	-0.134684699	0.1427008063	0.6346819579	0.049102622	1
## 450	-0.134684699	-0.1185252906	-0.3591964548	-0.527391102	0
## 451	-0.134684699	-0.0795530176	-0.2026801693	0.102254526	1
## 452	-0.134684699	-0.1145948054	-0.3044157549	-0.439486031	1
## 453	-0.134684699	-0.1117225277	-0.3513706405	-0.372023999	0
## 454	-0.134684699	-0.0522210278	0.1025265873	0.155406429	1
## 455	-0.134684699	0.0110597848	0.4468624153	-0.138973345	1
## 456	-0.134684699	-0.0850556970	-0.2965899406	-0.402688559	0
## 457	-0.134684699	-0.0946702686	-0.3122415691	-0.443574639	1
## 458	-0.080146268	-0.1032266326	-0.2418092407	0.235134285	0
## 459	-0.134684699	-0.0777691820	0.1964363586	-0.116486001	1
## 460	-0.134684699	-0.0623798205	-0.2418092407	-0.359758175	1
## 461	-0.134684699	-0.0770435539	-0.2496350550	-0.461973375	0
## 462	-0.126893494	-0.0968471527	0.1651331015	5.491039837	0
## 463	-0.134684699	-0.1179508351	-0.3591964548	-0.435397423	1
## 464	-0.134684699	-0.0458113134	-0.3200673834	-0.500815151	1
## 465	-0.134684699	-0.1209440508	-0.1635510980	-0.247321456	1
## 466	-0.134684699	-0.1146855089	-0.3591964548	-0.461973375	0
## 467	-0.134684699	-0.1183741181	-0.2965899406	-0.392467039	0
## 468	-0.134684699	-0.0185397927	-0.0305122553	-0.218701200	1
## 469	-0.134684699	-0.1095456435	-0.2887641263	-0.406777167	0
## 470	-0.134684699	-0.0742619798	0.1651331015	0.280108973	0
## 471	-0.134684699	-0.0093787386	0.0790491445	-0.280030320	1
## 472	-0.134684699	-0.1169530965	-0.3357190120	-0.396555647	0
## 473	-0.134684699	-0.0834835029	0.0399200731	0.028659582	0
## 474	-0.134684699	-0.0964843387	-0.3044157549	-0.464017679	1
## 475	-0.134684699	-0.1163484065	-0.3591964548	-0.517169583	0
## 476	-0.095728677	-0.0980262983	0.0633975160	5.640274028	0
## 477	-0.134684699	-0.0729921307	0.0790491445	-0.271853104	1

## 478	-0.134684699	-0.0853882765	-0.2496350550	-0.016315106	0
## 479	-0.134684699	-0.1046174197	-0.3513706405	-0.513080975	0
## 480	-0.033399041	-0.0342617337	0.2512170585	1.933950899	1
## 481	0.309413952	0.0342798823	0.7051142863	4.315565044	1
## 482	-0.134684699	-0.1221836654	-0.3591964548	-0.513080975	0
## 483	-0.134684699	0.0374847395	0.1416556587	-0.318872096	1
## 484	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 485	-0.134684699	-0.0930073710	-0.2026801693	0.525425451	0
## 486	-0.033399041	0.0158368361	4.1562983806	2.189488897	1
## 487	-0.134684699	-0.0861139045	-0.3357190120	-0.527391102	0
## 488	0.418490814	0.0131157309	0.4155591582	1.083520440	1
## 489	-0.134684699	-0.0654335052	-0.0931187695	-0.053112577	1
## 490	-0.134684699	-0.1250559430	-0.3513706405	-0.466061983	0
## 491	0.075677820	-0.0084112345	0.1573072872	0.042969710	0
## 492	-0.134684699	-0.0163326740	-0.2339834264	0.680792554	0
## 493	0.075677820	-0.1158948889	-0.3122415691	-0.253454368	1
## 494	0.180859080	1.7858855185	5.1501767932	1.032412840	1
## 495	-0.134684699	-0.1220324928	-0.3435448262	-0.419042991	0
## 496	-0.134684699	-0.1186764631	-0.3122415691	-0.472194895	0
## 497	-0.134684699	4.0711301142	1.7929024702	0.024570974	1
## 498	-0.134684699	-0.1190392772	-0.2731124978	-0.351580960	0
## 499	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 500	-0.134684699	-0.0656149122	-0.2731124978	-0.365891087	0
## 501	-0.134684699	-0.0430297392	0.0086168160	-0.331137920	1
## 502	-0.134684699	-0.1314656575	-0.3826738976	-0.515125279	0
## 503	-0.045085848	-0.1187671666	-0.1792027265	-0.036758145	1
## 504	-0.134684699	-0.0407621516	0.2199138014	-0.024492321	1
## 505	-0.017816633	33.1718382449	16.8575949451	3.959856150	1
## 506	-0.134684699	-0.1223348379	-0.3200673834	0.059324142	0
## 507	-0.134684699	-0.0359246313	-0.0148606268	1.782672404	1
## 508	-0.134684699	-0.0361362728	-0.1870285408	-0.437441727	1
## 509	1.567693464	0.1160339755	0.5955528865	1.367678694	1
## 510	-0.134684699	-0.1213975683	-0.3670222690	-0.531479710	0
## 511	-0.134684699	-0.1183741181	-0.3513706405	-0.372023999	0
## 512	-0.134684699	-0.0906188453	-0.1713769122	0.490672283	0
## 513	0.909336692	-0.0924026809	-0.2965899406	-0.355669567	0
## 514	-0.134684699	-0.0651916292	-0.1244220266	-0.208479680	1
## 515	-0.134684699	-0.1117225277	-0.3513706405	-0.372023999	0
## 516	-0.134684699	-0.0847231174	-0.0931187695	0.680792554	0
## 517	-0.134684699	-0.0592051978	0.0868749588	0.020482366	1
## 518	-0.134684699	-0.1254792261	-0.3513706405	-0.251410064	0
## 519	-0.134684699	-0.0758946429	0.0164426303	3.700229544	0
## 520	-0.134684699	-0.0744131523	-0.0383380696	1.240931847	0
## 521	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 522	-0.076250666	0.0968048323	4.8449700366	2.214020545	1
## 523	-0.134684699	-0.0997194304	-0.3435448262	-0.464017679	1
## 524	-0.134684699	-0.0774366025	-0.0226864410	1.680457204	0
## 525	-0.134684699	-0.0659777262	-0.2418092407	-0.314783488	1
## 526	0.067886616	-0.1152297299	-0.3122415691	-0.255498672	1
## 527	-0.017816633	-0.0870209396	-0.1792027265	0.320995052	1
## 528	-0.134684699	-0.0827881093	-0.2026801693	0.081811486	0
## 529	-0.134684699	-0.0861139045	-0.3044157549	-0.445618943	0
## 530	-0.134684699	-0.0838463169	-0.2731124978	-0.337270832	0
## 531	-0.134684699	-0.1113294792	-0.3513706405	-0.517169583	1

## 532	-0.134684699	-0.1113294792	-0.3591964548	-0.517169583	0
## 533	-0.134684699	-0.1314656575	-0.3826738976	-0.545789838	0
## 534	-0.134684699	-0.0409133241	0.0399200731	1.101919176	0
## 535	-0.134684699	-0.0709966535	-0.3513706405	-0.517169583	0
## 536	-0.134684699	-0.1314656575	-0.3826738976	-0.521258190	1
## 537	-0.134684699	-0.0407621516	-0.2965899406	-0.490593631	1
## 538	-0.134684699	-0.1060384413	-0.3122415691	-0.167593601	1
## 539	-0.134684699	-0.1252978191	-0.3435448262	-0.427220207	1
## 540	2.132555783	-0.0918886944	-0.1165962123	0.047058318	1
## 541	-0.134684699	-0.0609285644	-0.3357190120	-0.506948063	0
## 542	-0.134684699	-0.0646171736	-0.1400736551	0.443653292	0
## 543	-0.076250666	0.0968048323	4.8449700366	2.214020545	1
## 544	-0.064563859	-0.0685778934	0.1025265873	0.308729228	0
## 545	-0.134684699	-0.0440577123	-0.0226864410	-0.253454368	1
## 546	-0.134684699	-0.0645869391	-0.0461638839	0.811628009	0
## 547	-0.134684699	-0.0955773036	-0.3513706405	-0.476283503	0
## 548	-0.134684699	-0.1195532637	-0.2965899406	-0.439486031	0
## 549	-0.134684699	-0.1052523443	-0.2809383120	0.517248235	1
## 550	-0.134684699	-0.0916165839	-0.1948543550	-0.443574639	0
## 551	-0.134684699	-0.0338082161	-0.1948543550	-0.435397423	1
## 552	-0.134684699	-0.1163484065	-0.3357190120	-0.480372111	0
## 553	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 554	-0.134684699	0.0096085287	0.0477458874	0.008216542	1
## 555	-0.134684699	-0.1005962310	-0.2965899406	-0.353625264	1
## 556	-0.134684699	-0.1190392772	-0.3513706405	-0.498770847	0
## 557	0.788573023	-0.0983588778	-0.3357190120	-0.457884767	1
## 558	-0.134684699	-0.1228488244	-0.3670222690	-0.511036671	0
## 559	-0.134684699	17.6464214915	8.8204836871	1.860355955	1
## 560	-0.134684699	-0.0283357713	-0.2418092407	0.065457054	0
## 561	1.657292315	0.0287772029	-0.1009445838	1.938039507	1
## 562	0.995039940	-0.1096363470	-0.3357190120	-0.484460719	0
## 563	-0.134684699	-0.0991752094	-0.3044157549	0.259665933	0
## 564	-0.134684699	-0.0911630663	-0.3122415691	-0.504903759	0
## 565	0.106842638	-0.0747457318	-0.0931187695	0.310773532	0
## 566	0.165276671	-0.0055087223	0.0633975160	-0.167593601	1
## 567	0.274353533	-0.0844510069	-0.2965899406	-0.406777167	0
## 568	-0.134684699	-0.1239977355	-0.3513706405	-0.280030320	0
## 569	-0.134684699	-0.1031359291	-0.2731124978	-0.421087295	0
## 570	0.153589864	-0.0314499250	-0.1713769122	0.051146926	0
## 571	-0.134684699	-0.1095456435	-0.2887641263	-0.406777167	0
## 572	-0.134684699	-0.0386457365	-0.0148606268	0.625596347	1
## 573	-0.134684699	-0.1072780559	-0.3435448262	-0.511036671	0
## 574	0.153589864	-0.0326593051	-0.1713769122	0.036836798	0
## 575	-0.134684699	-0.1125690937	-0.3200673834	-0.494682239	0
## 576	-0.134684699	-0.0881698507	-0.2026801693	0.590843179	0
## 577	-0.134684699	-0.1254187571	-0.3591964548	-0.437441727	0
## 578	-0.134684699	-0.1047383577	0.0086168160	-0.247321456	0
## 579	-0.134684699	0.0213697499	0.1025265873	-0.325005008	1
## 580	0.753512604	-0.0709966535	-0.2965899406	-0.406777167	1
## 581	1.287210105	-0.1258118056	-0.3044157549	-0.314783488	0
## 582	-0.134684699	-0.1239070320	-0.3748480833	-0.537612622	0
## 583	-0.134684699	-0.0386155020	-0.1635510980	-0.314783488	1
## 584	-0.134684699	-0.0416389521	-0.1244220266	-0.263675888	0
## 585	-0.099624279	-0.0128254718	0.3529526440	2.130204081	1

## 586	-0.134684699	-0.1174066140	-0.3278931977	-0.374068303	0
## 587	-0.134684699	0.0247257796	-0.1322478409	-0.018359410	1
## 588	-0.134684699	-0.1072780559	-0.3513706405	-0.474239199	0
## 589	-0.134684699	-0.1012311555	-0.2652866835	-0.474239199	1
## 590	-0.134684699	0.0850436110	-0.1478994694	-0.030625233	1
## 591	-0.134684699	-0.0609285644	-0.3044157549	-0.486505023	0
## 592	-0.134684699	-0.1169228620	-0.3513706405	-0.466061983	0
## 593	-0.134684699	-0.1245419565	-0.3435448262	-0.394511343	0
## 594	-0.134684699	-0.1178601316	-0.3591964548	-0.488549327	0
## 595	-0.134684699	-0.1018963145	-0.2965899406	-0.361802479	0
## 596	0.289935941	0.0527229285	0.1338298444	0.394589996	1
## 597	5.330845192	-0.0808531012	-0.2574608692	-0.312739184	0
## 598	-0.134684699	-0.0679732033	0.0868749588	-0.167593601	1
## 599	-0.134684699	-0.1253280536	-0.3513706405	-0.173726513	0
## 600	-0.134684699	-0.1239070320	-0.3748480833	-0.527391102	0
## 601	-0.134684699	-0.0091066280	0.7051142863	-0.114441697	1
## 602	-0.134684699	-0.0749876078	-0.0461638839	-0.190080944	1
## 603	-0.134684699	-0.1177391936	-0.3513706405	-0.482416415	0
## 604	-0.134684699	-0.1185252906	-0.3591964548	-0.486505023	0
## 605	-0.134684699	-0.0516768068	0.0868749588	0.092033006	1
## 606	-0.134684699	-0.1023195976	-0.2965899406	-0.322960704	0
## 607	-0.134684699	-0.1198556087	-0.3591964548	-0.511036671	0
## 608	-0.134684699	0.0060710919	0.1651331015	0.609241915	1
## 609	-0.134684699	-0.0349571272	-0.0148606268	0.609241915	1
## 610	-0.134684699	-0.1094851745	-0.3513706405	-0.431308815	0
## 611	-0.134684699	-0.0863557805	-0.2965899406	-0.196213856	1
## 612	-0.134684699	-0.1061291448	-0.2887641263	0.406855820	1
## 613	-0.134684699	-0.1252978191	-0.3435448262	-0.427220207	1
## 614	-0.134684699	-0.1072780559	-0.3200673834	-0.474239199	0
## 615	-0.134684699	-0.0392806610	-0.0148606268	0.627640651	1
## 616	-0.134684699	-0.0330523536	-0.1244220266	-0.138973345	0
## 617	-0.134684699	-0.1005659965	-0.2418092407	0.374146956	0
## 618	0.839215852	-0.0241029410	-0.1400736551	-0.277986016	1
## 619	-0.134684699	-0.0887443062	-0.2652866835	-0.261631584	1
## 620	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 621	-0.134684699	-0.0945190961	-0.3513706405	-0.506948063	0
## 622	-0.134684699	-0.1177391936	-0.3200673834	-0.482416415	0
## 623	-0.134684699	-0.1045569507	-0.3044157549	-0.265720192	0
## 624	0.235397511	-0.0358339278	0.2668686870	0.907710297	1
## 625	-0.134684699	-0.0105276496	0.3529526440	-0.200302464	1
## 626	-0.134684699	0.1427008063	0.6346819579	0.049102622	1
## 627	-0.134684699	-0.1012311555	-0.3591964548	-0.515125279	0
## 628	-0.134684699	0.3825208758	1.1746631427	0.224912765	0
## 629	-0.134684699	-0.1046174197	-0.2183317979	-0.339315136	0
## 630	-0.134684699	-0.0858720285	-0.2574608692	-0.255498672	0
## 631	-0.134684699	-0.1199765467	-0.3591964548	-0.488549327	0
## 632	-0.134684699	-0.1125690937	-0.3435448262	-0.521258190	0
## 633	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 634	-0.134684699	-0.0597494188	0.1964363586	0.155406429	0
## 635	-0.064563859	-0.0685778934	0.1025265873	0.308729228	0
## 636	-0.134684699	-0.0044807492	0.0399200731	-0.335226528	0
## 637	-0.134684699	-0.1314656575	-0.3826738976	-0.543745534	0
## 638	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 639	-0.134684699	-0.1294097113	-0.3748480833	-0.451751855	0

## 640	-0.134684699	-0.1039824952	-0.3435448262	-0.504903759	0
## 641	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 642	-0.134684699	-0.1062803173	-0.3278931977	-0.502859455	0
## 643	-0.134684699	-0.1283515038	-0.3670222690	-0.482416415	1
## 644	-0.134684699	-0.1093340020	-0.0539896981	0.985393848	1
## 645	-0.134684699	-0.0958191796	-0.2496350550	-0.374068303	1
## 646	-0.134684699	-0.0749271388	-0.2731124978	-0.049023969	0
## 647	-0.134684699	-0.0866883601	-0.3044157549	-0.273897408	1
## 648	0.200337091	1.5476981121	4.5867181656	0.954729289	1
## 649	-0.134684699	-0.1213975683	-0.3670222690	-0.498770847	0
## 650	-0.134684699	-0.1276863447	-0.3748480833	-0.529435406	0
## 651	-0.134684699	-0.0690011764	-0.1087703980	-0.265720192	1
## 652	-0.134684699	-0.1094851745	-0.3513706405	-0.508992367	0
## 653	-0.134684699	-0.1031359291	-0.2731124978	-0.421087295	0
## 654	-0.134684699	0.0499413543	0.4312107868	0.353703916	1
## 655	-0.134684699	-0.1012311555	-0.2809383120	-0.183948033	1
## 656	-0.134684699	-0.1098782231	-0.3591964548	-0.523302494	0
## 657	-0.134684699	-0.1029847566	-0.3278931977	-0.408821471	0
## 658	-0.068459461	-0.0576632382	-0.1165962123	0.472273548	0
## 659	0.091260229	0.0192533348	0.0633975160	0.320995052	1
## 660	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 661	0.383430394	0.0375452085	5.3927770357	4.221527061	1
## 662	-0.134684699	-0.0756225323	0.0790491445	-0.053112577	0
## 663	-0.134684699	0.0357009039	1.7694250274	0.813672313	1
## 664	-0.134684699	-0.1030149911	-0.2965899406	-0.480372111	1
## 665	-0.134684699	-0.1057360963	-0.2887641263	-0.343403744	0
## 666	-0.134684699	-0.0966959802	-0.3044157549	-0.459929071	0
## 667	0.044513003	-0.0065064609	0.6425077721	1.498514149	1
## 668	-0.134684699	-0.0947307376	-0.2183317979	-0.316827792	0
## 669	-0.134684699	-0.1072780559	-0.2965899406	-0.419042991	1
## 670	-0.134684699	-0.0751690148	-0.0226864410	-0.378156911	0
## 671	-0.134684699	-0.0996589614	-0.2261576121	-0.468106287	0
## 672	0.056199809	-0.0469904590	0.1494814729	0.887267257	1
## 673	-0.134684699	-0.1113294792	-0.3670222690	-0.537612622	0
## 674	0.044513003	-0.0099229596	0.6425077721	1.453539462	1
## 675	-0.134684699	-0.0592959013	-0.2731124978	-0.333182224	0
## 676	0.180859080	0.2966548902	0.7677208005	0.226957069	1
## 677	0.173067875	0.3443951688	0.7598949862	0.239222893	1
## 678	0.188650284	0.0285957959	0.6425077721	1.420830598	1
## 679	-0.064563859	0.1317256821	0.7677208005	2.547242095	1
## 680	-0.134684699	-0.0995682579	-0.2183317979	-0.320916400	1
## 681	-0.134684699	-0.1083967325	-0.3200673834	-0.410865775	0
## 682	-0.134684699	-0.0654032707	-0.1400736551	0.435476076	0
## 683	0.017243787	-0.0510721168	0.1573072872	0.132919086	0
## 684	0.788573023	-0.0983588778	-0.3357190120	-0.457884767	1
## 685	-0.134684699	-0.0898932173	-0.2652866835	-0.275941712	1
## 686	-0.134684699	-0.1111783066	-0.2887641263	-0.329093616	0
## 687	-0.134684699	-0.0903165003	-0.1557252837	-0.374068303	0
## 688	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 689	-0.134684699	-0.0963936352	-0.3044157549	-0.437441727	0
## 690	-0.134684699	-0.0996589614	-0.2261576121	-0.468106287	0
## 691	-0.134684699	-0.0934911230	-0.2261576121	0.116564654	1
## 692	-0.134684699	-0.0764993329	-0.2418092407	-0.421087295	1
## 693	-0.134684699	-0.0800367696	-0.2339834264	-0.177815121	0

## 694	-0.134684699	-0.0256449006	-0.1948543550	-0.437441727	1
## 695	-0.134684699	-0.0293032754	1.2372696569	0.490672283	0
## 696	-0.134684699	-0.1185252906	-0.3513706405	-0.384289823	0
## 697	-0.134684699	-0.1093642365	-0.2652866835	-0.310694880	0
## 698	-0.134684699	-0.1094851745	-0.3513706405	-0.431308815	0
## 699	-0.134684699	-0.0754108908	0.1416556587	-0.226878416	0
## 700	-0.134684699	-0.1123574522	-0.3044157549	0.079767182	0
## 701	-0.134684699	-0.1096968160	-0.3044157549	-0.459929071	0
## 702	0.071782218	-0.0953354276	0.0007910018	-0.134884737	1
## 703	-0.134684699	-0.0629542760	-0.1478994694	-0.147150561	0
## 704	-0.134684699	-0.0508604752	0.2512170585	-0.210523984	1
## 705	-0.134684699	0.2363672933	-0.1713769122	-0.386334127	1
## 706	-0.134684699	-0.1175275521	-0.3591964548	-0.470150591	0
## 707	-0.134684699	-0.1314656575	-0.3826738976	-0.508992367	1
## 708	-0.134684699	-0.1099689266	-0.2731124978	-0.390422735	0
## 709	-0.134684699	-0.0883512577	0.2042621729	-0.141017649	0
## 710	1.170342039	0.0859808806	2.1607157410	2.232419281	1
## 711	-0.134684699	-0.1314656575	-0.3826738976	-0.515125279	0
## 712	-0.134684699	-0.0453275614	0.5564238151	0.026615278	1
## 713	-0.134684699	0.0024127172	-0.2261576121	0.073634270	1
## 714	-0.134684699	0.0247257796	-0.1322478409	-0.018359410	1
## 715	-0.134684699	-0.0270356877	0.0399200731	1.355412870	0
## 716	-0.134684699	-0.0609285644	-0.3044157549	-0.486505023	0
## 717	-0.134684699	-0.0174513506	-0.1870285408	-0.206435376	0
## 718	-0.134684699	0.0442875024	3.4754525388	2.432761072	1
## 719	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 720	-0.134684699	-0.1258118056	-0.3591964548	-0.508992367	0
## 721	-0.134684699	-0.1128109697	-0.3044157549	-0.435397423	0
## 722	-0.134684699	-0.1169228620	-0.3513706405	-0.466061983	0
## 723	-0.134684699	-0.1059779723	-0.3044157549	-0.306606272	0
## 724	-0.134684699	-0.0824857643	-0.3044157549	-0.392467039	0
## 725	0.200337091	1.5476981121	4.5867181656	0.954729289	1
## 726	-0.134684699	-0.1092432985	-0.3122415691	-0.427220207	0
## 727	-0.134684699	-0.1012311555	-0.2809383120	-0.183948033	1
## 728	-0.134684699	-0.0981774708	-0.3044157549	-0.251410064	1
## 729	1.228776072	0.0883694063	0.1494814729	1.261374887	1
## 730	-0.134684699	-0.1152599644	-0.3278931977	-0.419042991	0
## 731	-0.134684699	-0.1220324928	-0.3670222690	-0.504903759	1
## 732	-0.134684699	-0.1226371829	-0.3591964548	-0.376112607	0
## 733	-0.134684699	-0.0263705287	-0.2339834264	-0.355669567	1
## 734	-0.134684699	-0.0079274825	-0.1322478409	-0.308650576	1
## 735	0.952188316	-0.0199305797	0.7442433577	1.829691395	1
## 736	-0.134684699	-0.1135668323	-0.2731124978	-0.300473360	0
## 737	-0.134684699	0.0285957959	0.1025265873	-0.329093616	1
## 738	-0.134684699	-0.1307702639	-0.3670222690	-0.372023999	1
## 739	-0.134684699	-0.1069152419	-0.3122415691	-0.429264511	0
## 740	-0.134684699	-0.0441484158	-0.3278931977	-0.476283503	0
## 741	26.729388090	-0.0969378562	-0.3278931977	-0.425175903	0
## 742	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 743	0.262666726	-0.0799158316	0.1807847300	0.204469725	1
## 744	-0.134684699	-0.1291678353	-0.3748480833	-0.490593631	0
## 745	-0.134684699	0.1583320438	0.5799012579	0.339393788	1
## 746	-0.134684699	-0.0505278957	-0.1713769122	-0.314783488	0
## 747	-0.134684699	-0.0926143224	-0.2809383120	-0.384289823	0

## 748	-0.134684699	-0.0395225370	0.0320942589	-0.151239169	1
## 749	-0.134684699	-0.1226674174	-0.3513706405	-0.484460719	0
## 750	-0.134684699	-0.0589028528	0.0868749588	-0.165549297	1
## 751	0.426282019	0.0131459654	1.1198824428	6.014381658	1
## 752	-0.134684699	-0.1106038511	-0.3044157549	-0.402688559	1
## 753	-0.134684699	-0.1120853417	-0.3122415691	-0.369979695	0
## 754	-0.134684699	-0.0437553673	-0.1322478409	0.265798845	0
## 755	-0.134684699	-0.0919491634	-0.3278931977	-0.486505023	0
## 756	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
## 757	-0.134684699	-0.1042546057	-0.2731124978	-0.431308815	0
## 758	-0.134684699	-0.1108759616	-0.3122415691	-0.472194895	0
## 759	-0.134684699	-0.0876256296	-0.2731124978	-0.447663247	0
## 760	-0.134684699	-0.0902257968	0.1807847300	-0.083777137	0
## 761	-0.134684699	-0.0609285644	-0.2965899406	-0.486505023	1
## 762	-0.134684699	-0.1165298135	-0.3122415691	-0.263675888	1
## 763	-0.134684699	-0.0450856854	-0.1948543550	-0.382245519	1
## 764	-0.134684699	-0.1209742853	-0.3670222690	-0.484460719	0
## 765	-0.134684699	-0.1036801502	-0.2887641263	-0.206435376	0
## 766	-0.134684699	-0.1268397787	-0.3670222690	-0.517169583	0
## 767	-0.134684699	-0.0926143224	-0.2809383120	-0.384289823	0
## 768	0.621062129	-0.0810949772	-0.2887641263	-0.335226528	0
## 769	-0.134684699	-0.0672173408	-0.2965899406	-0.343403744	1
## 770	0.410699610	-0.0137929758	0.6972884720	0.012305150	1
## 771	-0.134684699	-0.1079734494	-0.3435448262	-0.449707551	0
## 772	-0.134684699	-0.1169530965	-0.3200673834	-0.472194895	0
## 773	-0.134684699	-0.1094851745	-0.3513706405	-0.431308815	0
## 774	-0.134684699	-0.0764388639	-0.2105059836	-0.322960704	1
## 775	-0.134684699	-0.0268240462	-0.1713769122	0.045014014	0
## 776	0.293831544	-0.0540653325	0.0320942589	1.453539462	1
## 777	-0.134684699	-0.1314656575	-0.3826738976	-0.543745534	0
## 778	-0.134684699	-0.0950633171	-0.3200673834	-0.128751825	0
## 779	-0.134684699	-0.0709966535	-0.2574608692	-0.443574639	0
## 780	0.106842638	-0.0732340067	-0.0148606268	0.104298830	0
## 781	-0.134684699	-0.1022288941	-0.2496350550	-0.302517664	0
## 782	-0.134684699	-0.1314656575	-0.3826738976	-0.523302494	0
## 783	-0.134684699	-0.0907397833	-0.3122415691	-0.437441727	0
## 784	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 785	-0.134684699	-0.1242698460	-0.3591964548	-0.494682239	0
## 786	-0.134684699	-0.0619867720	-0.2652866835	0.038881102	1
## 787	-0.134684699	0.0279911059	0.3138235727	0.106343134	1
## 788	-0.134684699	-0.1133249563	-0.3591964548	-0.531479710	0
## 789	0.180859080	-0.0908607213	-0.2887641263	-0.241188544	0
## 790	-0.134684699	-0.0472021005	0.0633975160	0.179938077	1
## 791	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
## 792	0.009452583	-0.1074594629	-0.3122415691	-0.173726513	0
## 793	-0.134684699	-0.0854487455	-0.2809383120	-0.320916400	1
## 794	-0.134684699	-0.0373456529	0.0164426303	0.789140666	0
## 795	-0.134684699	-0.0654637397	0.0399200731	-0.157372081	0
## 796	-0.134684699	-0.1246024255	-0.3278931977	-0.382245519	1
## 797	-0.134684699	-0.0650706912	-0.1400736551	0.484539371	0
## 798	-0.134684699	-0.1161669995	-0.3044157549	-0.316827792	0
## 799	-0.134684699	-0.1249954740	-0.3670222690	-0.478327807	0
## 800	-0.134684699	-0.0558794026	-0.2261576121	-0.461973375	0
## 801	-0.134684699	-0.0901350933	-0.2965899406	-0.126707521	0



## 802	-0.134684699	-0.0810949772	-0.3513706405	-0.515125279	0
## 803	2.888302611	0.0659958748	-0.0539896981	0.175849469	0
## 804	-0.134684699	-0.0973006702	-0.2731124978	-0.447663247	0
## 805	-0.134684699	-0.0926747914	-0.2183317979	-0.300473360	1
## 806	-0.134684699	0.0180137202	0.0320942589	0.995615368	1
## 807	0.515880869	-0.0815182602	-0.3044157549	-0.423131599	0
## 808	0.060095411	-0.1003241204	-0.1400736551	-0.008137890	1
## 809	-0.134684699	-0.0379503429	0.2903461299	-0.012226498	0
## 810	-0.134684699	-0.1141110533	-0.3591964548	-0.396555647	0
## 811	-0.134684699	-0.1055546893	-0.2731124978	-0.468106287	0
## 812	-0.134684699	0.0008102886	0.1494814729	-0.284118928	0
## 813	-0.134684699	-0.1046174197	-0.3513706405	-0.513080975	0
## 814	-0.134684699	-0.0210492563	-0.1478994694	-0.329093616	1
## 815	-0.134684699	-0.0609285644	-0.3044157549	-0.486505023	0
## 816	-0.134684699	-0.0679732033	-0.3044157549	-0.484460719	0
## 817	-0.134684699	-0.0041784042	-0.1087703980	-0.345448048	1
## 818	-0.134684699	-0.0751690148	-0.2731124978	-0.378156911	0
## 819	-0.134684699	-0.1097572851	-0.2965899406	-0.298429056	0
## 820	-0.134684699	-0.1287445523	-0.3670222690	-0.498770847	0
## 821	-0.134684699	-0.0872023466	-0.2731124978	-0.124663217	0
## 822	-0.134684699	-0.0070809164	0.4468624153	-0.181903729	1
## 823	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 824	-0.134684699	-0.0180862751	-0.3278931977	-0.508992367	0
## 825	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 826	-0.134684699	-0.0210492563	-0.1478994694	-0.329093616	1
## 827	-0.134684699	-0.1255396951	-0.3513706405	-0.410865775	0
## 828	-0.134684699	-0.0627728690	-0.2105059836	-0.474239199	1
## 829	-0.134684699	-0.1096968160	-0.3044157549	-0.459929071	0
## 830	-0.134684699	-0.1058267998	-0.2887641263	-0.298429056	0
## 831	-0.134684699	-0.0698175080	-0.2887641263	-0.230967024	0
## 832	-0.134684699	-0.0386457365	-0.0148606268	0.625596347	1
## 833	-0.134684699	-0.1113294792	-0.3591964548	-0.496726543	0
## 834	-0.134684699	-0.1201881882	-0.3044157549	-0.202346768	0
## 835	-0.134684699	-0.0280636608	1.1120566285	0.075678574	1
## 836	-0.134684699	-0.1255699296	-0.3435448262	-0.435397423	0
## 837	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 838	-0.134684699	-0.0936725300	-0.2026801693	0.924064729	0
## 839	-0.134684699	-0.1012311555	-0.3591964548	-0.535568318	0
## 840	0.340578770	-0.0921003359	-0.2261576121	-0.345448048	1
## 841	-0.134684699	-0.0757737049	-0.3122415691	-0.437441727	1
## 842	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 843	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 844	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 845	-0.134684699	-0.1235139834	-0.3591964548	-0.155327777	0
## 846	-0.134684699	-0.1045569507	-0.2887641263	-0.161460689	0
## 847	-0.134684699	-0.0160303290	-0.1948543550	-0.439486031	1
## 848	-0.134684699	-0.0169978331	0.7990240576	0.049102622	1
## 849	-0.134684699	-0.0634380281	-0.3044157549	-0.468106287	0
## 850	-0.134684699	-0.1189485736	-0.2887641263	-0.310694880	0
## 851	-0.134684699	-0.1079734494	-0.2965899406	-0.416998687	1
## 852	-0.134684699	-0.0963634007	-0.1792027265	0.627640651	0
## 853	-0.134684699	-0.1133249563	-0.3200673834	-0.498770847	0
## 854	-0.134684699	-0.1154111369	-0.3357190120	-0.247321456	0
## 855	-0.134684699	-0.1199160777	-0.3513706405	-0.451751855	0

## 856	-0.134684699	-0.0993566164	-0.2965899406	-0.345448048	1
## 857	-0.134684699	-0.1233628109	-0.3591964548	-0.441530335	0
## 858	0.169172273	0.2942361301	0.7598949862	0.222868461	1
## 859	-0.134684699	-0.0889861822	0.0007910018	0.204469725	1
## 860	-0.134684699	-0.0286683508	-0.2652866835	-0.502859455	0
## 861	-0.076250666	0.0899416004	4.8449700366	2.242640801	1
## 862	-0.134684699	-0.0908002523	-0.2183317979	-0.284118928	1
## 863	-0.134684699	-0.1012311555	-0.3357190120	-0.490593631	0
## 864	-0.134684699	-0.1268397787	-0.3670222690	-0.517169583	0
## 865	-0.134684699	-0.1080339184	-0.2339834264	-0.224834112	1
## 866	-0.134684699	-0.0148511834	-0.2965899406	-0.478327807	1
## 867	-0.134684699	-0.1072780559	-0.3122415691	-0.382245519	0
## 868	-0.134684699	-0.1170740345	-0.3278931977	-0.421087295	0
## 869	-0.134684699	-0.1113294792	-0.3357190120	-0.496726543	0
## 870	0.025034992	-0.1045569507	-0.2496350550	-0.087865745	1
## 871	0.118529445	-0.0721455646	-0.3044157549	-0.226878416	0
## 872	-0.134684699	-0.0847231174	-0.0931187695	0.680792554	0
## 873	0.671704957	-0.0834532684	-0.0774671410	-0.277986016	0
## 874	-0.048981450	-0.1159251234	-0.2261576121	-0.222789808	0
## 875	-0.087937472	0.0074316445	0.5407721866	2.643324382	1
## 876	-0.134684699	-0.1290166628	-0.3670222690	-0.439486031	0
## 877	-0.134684699	-0.1062803173	-0.2496350550	1.363590086	0
## 878	3.768708708	0.0786943656	0.1886105443	0.460007724	1
## 879	0.574314902	-0.0766505054	0.5564238151	0.930197641	0
## 880	-0.006129826	0.2701392320	4.9701830649	2.547242095	1
## 881	-0.134684699	-0.0828788128	-0.2887641263	-0.398599951	0
## 882	-0.033399041	0.0307122110	0.7755466148	1.377900214	1
## 883	-0.134684699	-0.1072780559	-0.2965899406	-0.419042991	1
## 884	-0.134684699	-0.0902560313	-0.3513706405	-0.441530335	0
## 885	-0.134684699	-0.0359246313	-0.0148606268	1.782672404	1
## 886	-0.134684699	-0.0928561985	-0.2965899406	-0.464017679	0
## 887	-0.134684699	-0.1304981534	-0.3748480833	-0.482416415	0
## 888	-0.134684699	-0.1124481557	-0.3357190120	-0.457884767	0
## 889	-0.134684699	-0.0659172572	-0.2731124978	0.145184909	1
## 890	0.176963478	0.0374242705	0.6425077721	1.404476166	1
## 891	-0.134684699	-0.1075804009	-0.3513706405	-0.320916400	0
## 892	-0.134684699	-0.1143831638	-0.3591964548	-0.474239199	0
## 893	-0.134684699	-0.1012311555	-0.3513706405	-0.531479710	0
## 894	-0.134684699	-0.0589028528	-0.2965899406	-0.339315136	1
## 895	-0.134684699	-0.0258565421	-0.0852929552	0.977216632	1
## 896	0.687287366	0.6187128050	0.4233849725	0.296463405	0
## 897	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 898	-0.037294644	0.0394197476	0.2042621729	0.744165978	1
## 899	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 900	-0.134684699	-0.0844812414	-0.2731124978	-0.114441697	0
## 901	-0.080146268	0.0899416004	4.8449700366	2.344856000	1
## 902	-0.134684699	-0.1064617243	-0.3513706405	-0.439486031	0
## 903	-0.134684699	-0.1156530129	-0.3513706405	-0.482416415	0
## 904	-0.134684699	-0.1024103011	-0.2809383120	0.069545662	1
## 905	-0.134684699	-0.1023800666	-0.3513706405	-0.331137920	0
## 906	-0.134684699	-0.1156530129	-0.3435448262	-0.482416415	0
## 907	-0.134684699	-0.0974518428	-0.2965899406	-0.478327807	1
## 908	-0.134684699	-0.0729921307	0.1103524016	0.633773563	1
## 909	-0.134684699	-0.1138389428	-0.3278931977	-0.508992367	0

## 910	-0.134684699	-0.1190695117	-0.3513706405	-0.386334127	0
## 911	1.310583718	-0.1098782231	-0.3044157549	-0.498770847	0
## 912	-0.134684699	-0.0609285644	-0.0539896981	-0.302517664	1
## 913	-0.134684699	-0.1239070320	-0.3748480833	-0.527391102	0
## 914	-0.134684699	-0.0810949772	-0.3044157549	-0.498770847	1
## 915	-0.134684699	-0.0833323303	-0.1400736551	-0.404732863	1
## 916	-0.134684699	-0.1158948889	-0.3513706405	-0.445618943	0
## 917	-0.134684699	-0.0695453975	-0.1635510980	-0.292296144	1
## 918	0.360056781	0.0237582756	0.8068498719	3.916925767	1
## 919	-0.134684699	0.0136599519	-0.0305122553	-0.310694880	1
## 920	-0.134684699	-0.0810949772	-0.2887641263	-0.351580960	0
## 921	0.212023897	-0.0497720332	0.0242684446	-0.192125248	1
## 922	-0.134684699	-0.1012311555	-0.3357190120	-0.502859455	0
## 923	-0.134684699	2.9423552182	1.9885478270	0.081811486	1
## 924	-0.134684699	0.5250463180	0.7755466148	-0.222789808	1
## 925	-0.134684699	-0.1028638186	-0.2183317979	-0.173726513	1
## 926	-0.134684699	-0.0221074639	-0.1792027265	-0.104220177	1
## 927	-0.134684699	-0.1207626438	-0.3278931977	-0.461973375	0
## 928	-0.134684699	-0.0967564492	-0.2105059836	0.725767242	0
## 929	0.009452583	-0.1074594629	-0.3122415691	-0.173726513	0
## 930	-0.134684699	-0.0941260475	-0.2731124978	-0.470150591	1
## 931	-0.076250666	0.0899416004	4.8449700366	2.242640801	1
## 932	-0.134684699	-0.0492882811	0.0868749588	-0.008137890	1
## 933	-0.134684699	-0.0910723628	0.1260040301	-0.008137890	1
## 934	-0.134684699	-0.1314656575	-0.3826738976	-0.545789838	0
## 935	-0.134684699	-0.0934608885	-0.2574608692	-0.224834112	1
## 936	-0.134684699	-0.0978751258	-0.2496350550	-0.431308815	1
## 937	-0.134684699	-0.1271723582	-0.3670222690	-0.367935391	0
## 938	-0.134684699	-0.0918886944	-0.1948543550	0.320995052	0
## 939	-0.134684699	-0.1053430478	-0.1400736551	1.312482486	1
## 940	-0.134684699	-0.1129923768	-0.2965899406	-0.488549327	0
## 941	-0.025607837	0.1134338084	0.1181782159	0.940419161	1
## 942	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
## 943	-0.134684699	-0.0964541042	-0.2339834264	-0.269808800	0
## 944	-0.134684699	-0.0670359338	-0.2887641263	-0.304561968	1
## 945	-0.134684699	-0.0160303290	-0.1948543550	-0.439486031	1
## 946	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 947	-0.068459461	-0.0906793143	-0.1478994694	0.427298860	1
## 948	4.084252487	0.0758523224	-0.0383380696	0.351659612	1
## 949	0.243188715	-0.0924329154	-0.2965899406	0.079767182	0
## 950	-0.134684699	0.0280213404	-0.0305122553	-0.175770817	1
## 951	-0.134684699	-0.0044807492	0.2355654299	-0.069467009	1
## 952	-0.134684699	0.1141896709	0.1025265873	-0.398599951	0
## 953	-0.134684699	-0.1179810696	-0.3435448262	-0.355669567	0
## 954	-0.134684699	-0.0093787386	0.0790491445	-0.280030320	1
## 955	-0.134684699	-0.1134156598	-0.2339834264	0.124741870	1
## 956	-0.134684699	-0.0849649934	-0.2183317979	-0.345448048	0
## 957	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 958	-0.134684699	-0.0206259733	0.1103524016	-0.147150561	0
## 959	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 960	-0.103519881	-0.0519791518	0.6033787008	0.713501418	1
## 961	-0.134684699	-0.1081246219	-0.3591964548	-0.468106287	0
## 962	-0.134684699	-0.0840881929	-0.2731124978	-0.196213856	0
## 963	-0.134684699	-0.0543072085	-0.1009445838	0.214691245	0

## 964	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 965	-0.134684699	-0.0919491634	-0.2652866835	-0.486505023	1
## 966	-0.134684699	-0.0588726183	0.3451268298	1.426963510	1
## 967	-0.134684699	-0.1109061961	-0.2574608692	-0.224834112	1
## 968	0.071782218	-0.1007776380	-0.1400736551	-0.020403714	1
## 969	-0.134684699	-0.0834835029	0.0399200731	0.028659582	0
## 970	-0.134684699	-0.1129621423	-0.2965899406	-0.445618943	1
## 971	-0.134684699	-0.1271723582	-0.3748480833	-0.531479710	0
## 972	-0.134684699	-0.0355920518	0.2042621729	0.049102622	1
## 973	-0.134684699	-0.1251164120	-0.3591964548	-0.453796159	0
## 974	-0.134684699	-0.1101503336	-0.3435448262	-0.488549327	0
## 975	-0.134684699	-0.0828788128	-0.3044157549	-0.100131569	0
## 976	-0.134684699	-0.0256449006	-0.1870285408	-0.455840463	1
## 977	-0.134684699	-0.1155018404	-0.2887641263	-0.382245519	0
## 978	1.400182569	-0.0547607260	-0.2183317979	-0.063334097	1
## 979	-0.134684699	-0.1153506679	-0.3513706405	-0.500815151	0
## 980	-0.134684699	-0.0702407910	-0.2261576121	-0.306606272	1
## 981	-0.134684699	-0.0789785621	-0.1557252837	0.408900124	1
## 982	-0.134684699	0.1615671355	0.1181782159	-0.263675888	1
## 983	-0.134684699	-0.0783134030	-0.0226864410	1.645704036	0
## 984	-0.134684699	-0.1125690937	-0.3200673834	-0.468106287	0
## 985	-0.134684699	-0.0353199412	-0.0383380696	0.400722908	1
## 986	-0.134684699	-0.0817903707	-0.1244220266	-0.153283473	0
## 987	-0.068459461	-0.0906793143	-0.1478994694	0.427298860	1
## 988	-0.134684699	0.2389069915	-0.0148606268	-0.439486031	0
## 989	-0.134684699	-0.0465369415	-0.1713769122	-0.384289823	1
## 990	0.005556981	-0.0636799041	-0.0931187695	0.161539341	0
## 991	-0.134684699	-0.0849649934	-0.2183317979	-0.345448048	0
## 992	-0.134684699	-0.1170438000	-0.3278931977	-0.414954383	1
## 993	-0.029503439	-0.0339593887	0.6346819579	1.715210372	1
## 994	-0.134684699	-0.1114806517	-0.3435448262	-0.306606272	1
## 995	3.122038743	0.0959885007	0.0633975160	1.281817927	1
## 996	-0.134684699	-0.1159855925	-0.3357190120	-0.421087295	1
## 997	0.118529445	1.6132162778	6.1988359057	1.492381237	1
## 998	-0.134684699	-0.1314656575	-0.3826738976	-0.529435406	0
## 999	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1000	-0.134684699	-0.1113294792	-0.3670222690	-0.537612622	0
## 1001	-0.134684699	-0.0174815851	-0.0696413267	0.173805165	1
## 1002	0.180859080	1.9464609583	5.1345251647	1.020147016	1
## 1003	-0.134684699	0.0146576905	-0.1557252837	-0.333182224	1
## 1004	0.687287366	0.6187128050	0.4233849725	0.296463405	0
## 1005	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 1006	-0.134684699	-0.0962122282	-0.2105059836	-0.414954383	1
## 1007	-0.134684699	-0.1271723582	-0.3748480833	-0.531479710	0
## 1008	-0.134684699	-0.0407621516	-0.3044157549	-0.408821471	0
## 1009	-0.134684699	-0.0799763006	0.0007910018	0.159495037	0
## 1010	-0.134684699	-0.0355920518	0.2042621729	0.049102622	1
## 1011	-0.134684699	-0.0696965700	-0.2731124978	-0.404732863	0
## 1012	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 1013	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 1014	-0.134684699	-0.0445414643	-0.3044157549	-0.484460719	1
## 1015	-0.134684699	-0.0256449006	-0.1870285408	-0.455840463	1
## 1016	-0.134684699	-0.1314656575	-0.3826738976	-0.529435406	0
## 1017	-0.134684699	-0.1150785574	-0.2731124978	-0.327049312	0

##	1018	-0.134684699	-0.1018056110	-0.2965899406	-0.333182224	0
##	1019	-0.134684699	-0.1314656575	-0.3826738976	-0.543745534	0
##	1020	3.328505659	0.2148403279	0.4468624153	1.692723028	1
##	1021	-0.134684699	0.1795868986	1.1198824428	1.529178709	1
##	1022	0.025034992	-0.0927352605	-0.2026801693	-0.249365760	0
##	1023	-0.134684699	0.0153833185	-0.2496350550	-0.464017679	0
##	1024	-0.134684699	-0.0903467348	-0.2418092407	-0.253454368	1
##	1025	-0.134684699	-0.1149878539	-0.3513706405	-0.513080975	0
##	1026	-0.134684699	-0.0609285644	0.0086168160	-0.363846783	0
##	1027	-0.134684699	-0.0992961474	-0.2105059836	0.110431742	0
##	1028	-0.134684699	-0.0374061219	-0.2339834264	-0.093998657	1
##	1029	-0.134684699	-0.1189485736	-0.2887641263	-0.310694880	0
##	1030	-0.134684699	-0.1020172526	-0.2652866835	-0.390422735	0
##	1031	-0.134684699	-0.0921608049	-0.3200673834	-0.500815151	1
##	1032	-0.134684699	-0.1106038511	-0.3044157549	-0.402688559	1
##	1033	-0.134684699	-0.1012311555	-0.3278931977	-0.474239199	0
##	1034	-0.134684699	-0.0753201873	-0.3044157549	-0.466061983	1
##	1035	-0.099624279	-0.0131580513	0.3529526440	2.134292689	1
##	1036	-0.134684699	-0.0223795744	-0.1165962123	0.318950748	0
##	1037	-0.134684699	-0.0640427181	-0.0931187695	-0.290251840	1
##	1038	-0.134684699	-0.1012311555	-0.2652866835	-0.474239199	1
##	1039	-0.134684699	-0.0664614783	0.2042621729	0.353703916	1
##	1040	-0.134684699	-0.0777389475	-0.2965899406	-0.496726543	1
##	1041	-0.134684699	0.0569859932	0.1651331015	-0.104220177	1
##	1042	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
##	1043	-0.134684699	-0.0930980745	-0.1322478409	-0.306606272	1
##	1044	-0.134684699	-0.1243605495	-0.3513706405	-0.504903759	0
##	1045	-0.134684699	-0.0858720285	-0.2574608692	-0.255498672	0
##	1046	-0.134684699	-0.1291678353	-0.3748480833	-0.519213887	0
##	1047	0.153589864	-0.0025457411	0.0242684446	1.970748370	0
##	1048	1.224880470	-0.0609285644	-0.3122415691	-0.486505023	1
##	1049	-0.134684699	-0.1012311555	-0.3591964548	-0.527391102	0
##	1050	-0.134684699	-0.0903467348	-0.2418092407	-0.253454368	1
##	1051	-0.134684699	-0.0528559524	-0.2652866835	-0.400644255	1
##	1052	-0.134684699	-0.1106945546	-0.3122415691	-0.492637935	0
##	1053	-0.134684699	-0.0733247102	0.0399200731	-0.314783488	1
##	1054	-0.134684699	-0.0917072874	-0.3357190120	-0.457884767	0
##	1055	-0.134684699	-0.1216394443	-0.3513706405	-0.439486031	1
##	1056	-0.134684699	0.1781961116	0.6425077721	0.969039416	1
##	1057	-0.134684699	-0.0990240369	-0.3044157549	-0.200302464	1
##	1058	-0.134684699	-0.0834835029	0.0399200731	0.028659582	0
##	1059	0.188650284	0.3312431605	0.7677208005	0.218779853	1
##	1060	-0.134684699	-0.0618053650	-0.0226864410	-0.392467039	0
##	1061	-0.134684699	-0.0386457365	-0.0148606268	0.625596347	1
##	1062	-0.134684699	-0.0956680071	-0.1948543550	-0.208479680	1
##	1063	-0.134684699	-0.0059924743	0.2512170585	0.641950778	0
##	1064	-0.134684699	-0.0898932173	-0.3591964548	-0.508992367	0
##	1065	-0.134684699	-0.0765598019	-0.1400736551	0.735988762	0
##	1066	-0.134684699	-0.0988728643	-0.0226864410	-0.331137920	0
##	1067	-0.134684699	-0.0017898786	0.0164426303	1.733609108	1
##	1068	-0.134684699	-0.0962122282	-0.3513706405	-0.521258190	0
##	1069	-0.076250666	0.0968048323	4.8449700366	2.214020545	1
##	1070	0.145798660	-0.0882907887	-0.1713769122	-0.235055632	1
##	1071	-0.134684699	-0.1087897810	-0.3435448262	-0.447663247	0

## 1072	-0.134684699	-0.1210649888	-0.3591964548	-0.468106287	0
## 1073	-0.134684699	-0.1259932126	-0.3670222690	-0.521258190	0
## 1074	0.850902659	0.0767593575	0.5955528865	2.741450974	1
## 1075	-0.134684699	-0.1015939695	-0.2026801693	-0.181903729	0
## 1076	-0.134684699	-0.1314656575	-0.3826738976	-0.513080975	0
## 1077	-0.045085848	-0.0766505054	-0.1870285408	4.583368867	1
## 1078	-0.134684699	-0.0963936352	-0.3044157549	-0.437441727	0
## 1079	-0.134684699	-0.0593866048	-0.1009445838	-0.277986016	1
## 1080	-0.134684699	-0.1223953069	-0.3670222690	-0.521258190	0
## 1081	-0.134684699	-0.0717222816	-0.2026801693	-0.286163232	0
## 1082	-0.134684699	0.3810696197	1.1746631427	0.222868461	0
## 1083	0.180859080	0.3286127588	0.7598949862	0.214691245	1
## 1084	1.879341640	-0.0357432243	-0.2496350550	-0.292296144	1
## 1085	-0.134684699	-0.1055546893	-0.3044157549	-0.494682239	0
## 1086	-0.134684699	0.0075525825	0.2199138014	0.905665993	1
## 1087	-0.134684699	-0.1079734494	-0.3435448262	-0.449707551	0
## 1088	0.348369974	0.0230326475	0.5172947438	3.986432102	1
## 1089	-0.134684699	-0.1185252906	-0.2339834264	-0.302517664	1
## 1090	-0.134684699	-0.1032568671	-0.3278931977	-0.488549327	0
## 1091	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 1092	-0.134684699	0.0032592833	0.1729589158	2.140425601	1
## 1093	-0.134684699	-0.0783134030	-0.0226864410	1.645704036	0
## 1094	-0.134684699	-0.1295306493	-0.3670222690	-0.480372111	1
## 1095	1.057369575	-0.0065366954	-0.1009445838	0.323039356	1
## 1096	0.075677820	0.2802980247	3.7180527813	1.334969830	1
## 1097	-0.134684699	-0.0470811625	-0.1870285408	0.196292509	1
## 1098	-0.134684699	-0.0966052767	0.0242684446	0.539735579	1
## 1099	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 1100	-0.064563859	-0.0685778934	0.1025265873	0.308729228	0
## 1101	-0.134684699	0.0735545003	-0.1400736551	-0.038802449	1
## 1102	-0.134684699	-0.0493487501	-0.0226864410	0.417077340	0
## 1103	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 1104	1.742995563	0.0137204209	-0.0539896981	0.294419101	0
## 1105	-0.134684699	-0.0598098878	0.2903461299	2.815045917	1
## 1106	-0.134684699	-0.1112085411	-0.2809383120	-0.216656896	1
## 1107	-0.134684699	-0.0044807492	-0.2574608692	-0.494682239	0
## 1108	-0.134684699	-0.1083967325	-0.3200673834	-0.410865775	0
## 1109	-0.134684699	-0.0672173408	-0.2574608692	-0.496726543	0
## 1110	-0.134684699	-0.0963936352	-0.3200673834	-0.327049312	0
## 1111	-0.134684699	-0.1143831638	-0.3591964548	-0.474239199	0
## 1112	-0.134684699	-0.0626216965	-0.1322478409	-0.185992337	0
## 1113	-0.134684699	-0.1201277192	-0.3591964548	-0.525346798	0
## 1114	-0.134684699	0.0224581920	0.2590428728	0.535646971	1
## 1115	1.407973774	-0.0494092192	-0.3044157549	-0.494682239	1
## 1116	-0.134684699	-0.0927050259	-0.2261576121	-0.365891087	0
## 1117	-0.134684699	-0.0753201873	-0.2418092407	-0.302517664	0
## 1118	0.071782218	-0.1012311555	-0.1400736551	-0.016315106	1
## 1119	-0.134684699	-0.1225767139	-0.3513706405	-0.457884767	0
## 1120	0.399012803	-0.0694244594	-0.2887641263	-0.310694880	0
## 1121	-0.134684699	0.0226093645	-0.2261576121	-0.161460689	0
## 1122	-0.134684699	-0.0765900364	-0.1870285408	-0.329093616	1
## 1123	-0.134684699	-0.0738991657	-0.2339834264	0.194248205	0
## 1124	0.761303808	-0.0854789800	-0.1478994694	0.509071019	0
## 1125	-0.134684699	0.0045896013	-0.3200673834	-0.525346798	0

## 1126	-0.134684699	13.2422522954	9.9787041994	2.171090161	1
## 1127	0.656122548	-0.0882303197	0.5564238151	0.813672313	0
## 1128	-0.134684699	-0.0625309930	-0.2731124978	-0.380201215	0
## 1129	-0.134684699	-0.0997194304	-0.3435448262	-0.464017679	1
## 1130	-0.134684699	-0.0733851792	0.0868749588	-0.320916400	0
## 1131	-0.134684699	-0.0634380281	-0.3122415691	-0.521258190	0
## 1132	-0.134684699	-0.1188881046	-0.3435448262	-0.478327807	0
## 1133	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
## 1134	-0.134684699	-0.0841486619	-0.3122415691	-0.427220207	0
## 1135	-0.134684699	-0.1025614736	-0.2183317979	-0.363846783	0
## 1136	-0.134684699	-0.1152599644	-0.3278931977	-0.331137920	0
## 1137	0.075677820	0.2802980247	3.7180527813	1.334969830	1
## 1138	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 1139	-0.134684699	-0.0394620680	-0.1713769122	-0.167593601	0
## 1140	1.567693464	0.1160339755	0.5955528865	1.367678694	1
## 1141	-0.134684699	-0.0353199412	-0.0383380696	0.400722908	1
## 1142	-0.134684699	-0.0210190218	0.2199138014	-0.053112577	1
## 1143	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 1144	-0.134684699	-0.0113137467	0.7051142863	-0.151239169	1
## 1145	-0.134684699	-0.1064012553	-0.3357190120	-0.394511343	0
## 1146	0.387325996	0.0128738549	0.0477458874	0.184026685	1
## 1147	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1148	-0.134684699	-0.1113294792	-0.3357190120	-0.517169583	0
## 1149	-0.134684699	-0.0407621516	-0.0383380696	-0.261631584	0
## 1150	-0.134684699	-0.1155018404	-0.2887641263	-0.382245519	0
## 1151	-0.045085848	-0.1147762124	-0.3122415691	-0.243232848	0
## 1152	-0.134684699	-0.1108759616	-0.3122415691	-0.472194895	0
## 1153	0.044513003	0.0127226824	0.1729589158	0.372102652	1
## 1154	-0.134684699	-0.0911630663	-0.2731124978	-0.190080944	0
## 1155	-0.134684699	-0.1166507515	-0.2418092407	-0.380201215	1
## 1156	-0.134684699	-0.0496208607	-0.2809383120	-0.237099936	1
## 1157	-0.134684699	-0.0785552790	-0.3122415691	-0.435397423	1
## 1158	-0.134684699	-0.1136273013	-0.1009445838	0.008216542	0
## 1159	-0.134684699	-0.0654335052	-0.1244220266	-0.300473360	1
## 1160	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1161	-0.134684699	-0.0833020958	-0.2496350550	-0.208479680	0
## 1162	-0.134684699	-0.1244814875	-0.3435448262	-0.341359440	0
## 1163	-0.134684699	-0.0440577123	-0.0226864410	-0.253454368	1
## 1164	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1165	-0.134684699	-0.0306940624	-0.2887641263	-0.388378431	1
## 1166	-0.134684699	-0.0679732033	0.0868749588	-0.167593601	1
## 1167	-0.134684699	-0.0017898786	0.0164426303	1.733609108	1
## 1168	-0.134684699	-0.0029690241	-0.2339834264	-0.461973375	1
## 1169	-0.134684699	-0.0785552790	-0.3044157549	-0.480372111	0
## 1170	-0.134684699	-0.0838160824	-0.2809383120	-0.410865775	0
## 1171	-0.134684699	-0.0960005867	-0.3044157549	-0.316827792	0
## 1172	-0.134684699	-0.0986914573	-0.3200673834	-0.296384752	0
## 1173	-0.134684699	-0.1016544385	-0.3044157549	-0.247321456	0
## 1174	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1175	0.145798660	-0.0005200295	0.2355654299	1.555754661	0
## 1176	-0.134684699	-0.1163484065	-0.3513706405	-0.498770847	0
## 1177	-0.134684699	-0.0334454021	0.0164426303	-0.261631584	0
## 1178	-0.134684699	-0.1012311555	-0.3357190120	-0.523302494	0
## 1179	0.858693863	-0.0777691820	0.5564238151	0.723722938	0

## 1180	-0.134684699	-0.0217144154	0.1103524016	-0.112397393	1
## 1181	0.348369974	-0.0826671713	0.1260040301	-0.243232848	1
## 1182	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 1183	-0.134684699	-0.0994775544	-0.3513706405	-0.476283503	1
## 1184	0.683391764	0.0809619533	1.8242057273	2.537020575	1
## 1185	-0.134684699	-0.1083664980	-0.3435448262	-0.486505023	0
## 1186	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 1187	-0.134684699	0.3195121737	0.1651331015	-0.157372081	1
## 1188	-0.134684699	-0.1314656575	-0.3826738976	-0.515125279	0
## 1189	-0.134684699	-0.0667033543	-0.3044157549	-0.367935391	0
## 1190	-0.134684699	-0.0922817429	-0.2261576121	0.419121644	0
## 1191	-0.134684699	-0.0733549447	0.4938173009	0.760520410	1
## 1192	-0.134684699	-0.1144738674	-0.3513706405	-0.496726543	0
## 1193	-0.134684699	-0.0861139045	-0.3591964548	-0.537612622	0
## 1194	-0.134684699	-0.0962424627	-0.2339834264	0.363925436	0
## 1195	-0.134684699	-0.1203998297	-0.3513706405	-0.464017679	0
## 1196	-0.048981450	-0.1033173361	-0.3200673834	-0.204391072	0
## 1197	-0.134684699	0.0053454639	0.3920817154	0.333260876	0
## 1198	-0.033399041	0.0348241033	3.7180527813	1.206178679	1
## 1199	-0.134684699	-0.0314196905	-0.0931187695	-0.063334097	0
## 1200	-0.134684699	-0.1041336677	-0.3044157549	-0.384289823	0
## 1201	-0.134684699	0.1197830538	1.4485666422	1.717254676	0
## 1202	-0.134684699	-0.1016544385	-0.3044157549	-0.247321456	0
## 1203	-0.134684699	-0.0942167510	-0.2418092407	-0.351580960	1
## 1204	-0.134684699	-0.1231511694	-0.3591964548	-0.443574639	0
## 1205	0.297727146	-0.0668242923	0.0320942589	1.351324262	1
## 1206	-0.134684699	-0.1165600480	-0.3278931977	0.801406490	1
## 1207	-0.134684699	-0.0870814086	-0.2731124978	-0.149194865	0
## 1208	-0.134684699	-0.0813368532	-0.2026801693	0.631729259	0
## 1209	-0.134684699	-0.1186462286	-0.3278931977	-0.451751855	0
## 1210	-0.134684699	-0.0609285644	-0.3278931977	-0.527391102	0
## 1211	0.652226946	-0.0478370250	-0.0539896981	3.109425692	0
## 1212	-0.134684699	-0.0829695163	-0.2183317979	-0.292296144	1
## 1213	-0.134684699	-0.1213975683	-0.3513706405	-0.515125279	1
## 1214	2.171511805	0.0586488908	-0.0539896981	0.122697566	0
## 1215	0.274353533	-0.0934306540	-0.2731124978	-0.155327777	0
## 1216	-0.134684699	-0.0486231221	0.0242684446	-0.341359440	0
## 1217	-0.134684699	-0.1185252906	-0.3670222690	-0.506948063	0
## 1218	-0.134684699	-0.0673382788	-0.2731124978	-0.337270832	0
## 1219	-0.134684699	-0.0732340067	-0.2339834264	-0.057201185	1
## 1220	-0.134684699	-0.0178443991	-0.2809383120	0.016393758	0
## 1221	-0.134684699	-0.1264467301	-0.3748480833	-0.533524014	0
## 1222	-0.134684699	-0.0953354276	-0.2574608692	-0.363846783	0
## 1223	-0.134684699	-0.0985100503	-0.3357190120	-0.500815151	0
## 1224	-0.134684699	-0.0488952326	-0.2261576121	-0.235055632	0
## 1225	-0.134684699	-0.1002031824	-0.2887641263	-0.427220207	0
## 1226	-0.134684699	-0.1087897810	-0.3044157549	-0.476283503	0
## 1227	1.310583718	-0.1098782231	-0.3044157549	-0.498770847	0
## 1228	-0.134684699	-0.1284422073	-0.3748480833	-0.525346798	1
## 1229	-0.134684699	-0.1082153255	-0.3278931977	-0.500815151	0
## 1230	-0.134684699	0.0285957959	0.1025265873	-0.329093616	1
## 1231	-0.134684699	-0.1208835818	-0.3591964548	-0.492637935	0
## 1232	-0.134684699	-0.1277770482	-0.3670222690	-0.435397423	0
## 1233	0.075677820	-0.0790087966	-0.2809383120	-0.251410064	0



##	1234	-0.134684699	-0.1089107190	-0.2887641263	-0.251410064	0
##	1235	-0.134684699	-0.1213975683	-0.3513706405	-0.515125279	1
##	1236	-0.134684699	-0.0640427181	-0.0931187695	-0.290251840	1
##	1237	-0.134684699	-0.1249350050	-0.3591964548	-0.455840463	1
##	1238	-0.013921030	-0.0501650817	0.1494814729	0.545868491	1
##	1239	-0.134684699	-0.0476556180	-0.0383380696	-0.038802449	0
##	1240	0.044513003	-0.0099229596	0.6425077721	1.453539462	1
##	1241	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
##	1242	-0.134684699	-0.0258565421	-0.0852929552	0.977216632	1
##	1243	-0.134684699	-0.0605959849	0.4468624153	-0.151239169	0
##	1244	-0.134684699	-0.1012311555	-0.1557252837	-0.331137920	1
##	1245	-0.134684699	-0.0504069577	-0.1165962123	-0.382245519	1
##	1246	-0.037294644	0.0394197476	0.2042621729	0.744165978	1
##	1247	-0.134684699	-0.1064919588	-0.3278931977	-0.461973375	0
##	1248	-0.134684699	-0.1234232799	-0.3670222690	-0.508992367	0
##	1249	-0.134684699	-0.1087897810	-0.3591964548	-0.533524014	0
##	1250	-0.134684699	-0.0132789893	0.2199138014	-0.327049312	1
##	1251	-0.134684699	-0.1239070320	-0.3748480833	-0.517169583	0
##	1252	0.671704957	-0.0834532684	-0.0774671410	-0.277986016	0
##	1253	-0.134684699	-0.0952749586	-0.2731124978	-0.228922720	0
##	1254	-0.134684699	-0.1099689266	-0.2731124978	-0.390422735	0
##	1255	0.309413952	0.0342798823	0.7051142863	4.315565044	1
##	1256	-0.134684699	-0.0709966535	-0.3513706405	-0.517169583	0
##	1257	-0.134684699	-0.0973006702	-0.2965899406	-0.081732833	1
##	1258	-0.134684699	-0.0960610557	-0.2965899406	-0.392467039	0
##	1259	-0.134684699	-0.1295004148	-0.3357190120	-0.249365760	0
##	1260	-0.134684699	-0.0729921307	0.0790491445	-0.271853104	1
##	1261	-0.134684699	0.1031843122	0.2120879871	-0.171682209	0
##	1262	-0.134684699	-0.1082153255	-0.3278931977	-0.500815151	0
##	1263	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1264	-0.134684699	-0.0810949772	-0.3513706405	-0.515125279	0
##	1265	-0.134684699	-0.0912840044	-0.1713769122	-0.085821441	1
##	1266	-0.134684699	-0.1247535980	-0.3670222690	-0.525346798	0
##	1267	-0.076250666	0.0968048323	4.8449700366	2.214020545	1
##	1268	-0.134684699	-0.0496208607	-0.2809383120	-0.237099936	1
##	1269	-0.134684699	-0.1058872688	-0.2965899406	-0.400644255	1
##	1270	0.286040339	-0.0784343410	-0.1948543550	-0.226878416	0
##	1271	-0.134684699	-0.0041784042	-0.1087703980	-0.345448048	1
##	1272	1.559902259	0.0269026638	-0.1009445838	1.964615458	1
##	1273	7.196838647	0.0277492298	-0.0696413267	-0.355669567	1
##	1274	-0.134684699	-0.0911630663	-0.2809383120	-0.304561968	1
##	1275	-0.134684699	-0.0885628992	-0.1792027265	0.594931787	0
##	1276	-0.134684699	-0.0751992493	-0.1087703980	-0.167593601	1
##	1277	-0.134684699	-0.1012311555	-0.3122415691	-0.511036671	0
##	1278	-0.084041870	0.0645748532	4.8449700366	2.328501568	1
##	1279	26.729388090	-0.0969378562	-0.3278931977	-0.425175903	0
##	1280	0.706765377	-0.0565445616	-0.3357190120	-0.384289823	0
##	1281	-0.134684699	-0.1073989939	-0.2965899406	0.392545692	1
##	1282	-0.134684699	-0.0949423791	-0.2887641263	-0.331137920	0
##	1283	0.126320649	0.3946146765	2.6850452973	0.956773593	1
##	1284	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
##	1285	-0.134684699	-0.1281096277	-0.3200673834	0.122697566	0
##	1286	-0.134684699	-0.0701198530	-0.2965899406	-0.337270832	1
##	1287	-0.134684699	-0.0483207771	-0.2731124978	-0.425175903	1

##	1288	-0.134684699	-0.0898932173	-0.3044157549	-0.470150591	1
##	1289	0.075677820	-0.1158948889	-0.3122415691	-0.253454368	1
##	1290	-0.134684699	-0.0829997508	-0.2652866835	-0.212568288	0
##	1291	-0.045085848	-0.1147762124	-0.3122415691	-0.243232848	0
##	1292	-0.134684699	-0.0844510069	-0.0226864410	-0.359758175	0
##	1293	-0.134684699	-0.1109968996	-0.3122415691	-0.228922720	0
##	1294	-0.134684699	-0.0600819983	0.0320942589	-0.224834112	1
##	1295	-0.134684699	-0.0901350933	-0.2965899406	-0.126707521	0
##	1296	-0.134684699	0.0045896013	-0.3200673834	-0.525346798	0
##	1297	-0.134684699	-0.1153506679	-0.3357190120	-0.453796159	0
##	1298	-0.134684699	-0.0852975730	-0.0226864410	-0.361802479	0
##	1299	-0.134684699	-0.0761667534	-0.0226864410	1.118273608	0
##	1300	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1301	-0.006129826	0.0549602816	0.0320942589	0.331216572	1
##	1302	-0.134684699	-0.0479881976	-0.2105059836	-0.386334127	1
##	1303	-0.134684699	-0.1278375172	-0.3670222690	-0.433353119	0
##	1304	-0.134684699	-0.0924329154	-0.2183317979	-0.435397423	0
##	1305	0.282144737	-0.0454182649	-0.1557252837	-0.241188544	1
##	1306	-0.134684699	-0.0572701897	-0.2574608692	-0.470150591	1
##	1307	-0.134684699	-0.0621077100	-0.2574608692	-0.318872096	0
##	1308	-0.134684699	-0.0664312438	-0.1009445838	0.089988702	0
##	1309	-0.134684699	-0.1151087919	-0.3513706405	-0.472194895	1
##	1310	-0.134684699	-0.1005659965	-0.2418092407	0.374146956	0
##	1311	-0.134684699	-0.0558794026	-0.1713769122	-0.461973375	1
##	1312	-0.134684699	-0.1023800666	-0.3122415691	-0.439486031	0
##	1313	-0.134684699	-0.1239070320	-0.3748480833	-0.537612622	0
##	1314	-0.134684699	-0.0879279746	-0.2496350550	0.674659642	0
##	1315	0.176963478	0.0374242705	0.6425077721	1.404476166	1
##	1316	-0.134684699	-0.1314656575	-0.3826738976	-0.511036671	1
##	1317	-0.134684699	-0.1314656575	-0.3826738976	-0.545789838	0
##	1318	-0.134684699	-0.1015939695	-0.2026801693	-0.181903729	0
##	1319	-0.134684699	-0.0465974105	0.0868749588	0.059324142	1
##	1320	-0.134684699	-0.1235139834	-0.3591964548	-0.155327777	0
##	1321	-0.134684699	-0.0946702686	-0.3200673834	-0.130796129	0
##	1322	-0.134684699	-0.1200067812	-0.3278931977	-0.466061983	1
##	1323	-0.134684699	-0.1142622258	-0.3357190120	-0.316827792	0
##	1324	-0.134684699	-0.0881698507	-0.2026801693	0.556090011	0
##	1325	-0.134684699	-0.0548816640	-0.1244220266	-0.222789808	0
##	1326	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
##	1327	-0.134684699	-0.0361665073	-0.0696413267	0.173805165	1
##	1328	-0.134684699	-0.1012311555	-0.3357190120	-0.490593631	0
##	1329	-0.134684699	-0.1281096277	-0.3200673834	0.122697566	0
##	1330	-0.134684699	-0.0719339231	-0.2652866835	-0.153283473	0
##	1331	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1332	-0.134684699	-0.1051918753	-0.2261576121	-0.108308785	1
##	1333	-0.134684699	-0.1259932126	-0.3670222690	-0.521258190	0
##	1334	-0.134684699	-0.0991752094	-0.2965899406	-0.302517664	0
##	1335	-0.134684699	-0.1000520099	-0.2496350550	0.298507709	1
##	1336	-0.134684699	-0.1133249563	-0.3591964548	-0.515125279	0
##	1337	-0.134684699	-0.1163484065	-0.3513706405	-0.498770847	0
##	1338	-0.134684699	-0.1108759616	-0.3122415691	-0.472194895	0
##	1339	-0.134684699	-0.0644357666	-0.1557252837	-0.396555647	1
##	1340	-0.134684699	-0.1087897810	-0.3670222690	-0.533524014	0
##	1341	1.150864028	0.0583163113	1.8946380558	3.632767512	1

## 1342	-0.134684699	-0.1177089591	-0.2965899406	-0.312739184	0
## 1343	-0.134684699	-0.0722060336	-0.2418092407	-0.093998657	1
## 1344	-0.134684699	-0.0847533519	-0.2496350550	-0.204391072	0
## 1345	0.017243787	-0.1288654903	-0.3670222690	-0.341359440	0
## 1346	-0.134684699	-0.1092432985	-0.2183317979	-0.359758175	0
## 1347	-0.134684699	-0.0823345918	-0.0226864410	-0.376112607	0
## 1348	-0.134684699	-0.0701198530	-0.3044157549	-0.337270832	0
## 1349	-0.134684699	0.0226093645	-0.2261576121	-0.161460689	0
## 1350	-0.134684699	-0.1093037675	-0.2965899406	0.355748220	1
## 1351	-0.134684699	-0.1120853417	-0.2965899406	-0.322960704	0
## 1352	-0.134684699	-0.0683964864	0.0399200731	-0.257542976	0
## 1353	-0.134684699	-0.1264467301	-0.2887641263	-0.161460689	1
## 1354	-0.134684699	-0.1032871016	-0.1478994694	-0.136929041	1
## 1355	-0.134684699	-0.0982984088	-0.2809383120	-0.063334097	0
## 1356	0.909336692	-0.0924026809	-0.2965899406	-0.355669567	0
## 1357	-0.134684699	-0.0807623977	0.0633975160	0.300552013	0
## 1358	0.348369974	-0.0436646638	-0.1713769122	-0.212568288	0
## 1359	3.768708708	0.0786943656	0.1886105443	0.460007724	1
## 1360	-0.134684699	-0.1295004148	-0.3357190120	-0.249365760	0
## 1361	-0.134684699	-0.0288799923	-0.1322478409	-0.251410064	0
## 1362	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1363	0.262666726	-0.0721455646	0.1807847300	0.269887453	1
## 1364	-0.134684699	-0.1201277192	-0.3670222690	-0.525346798	1
## 1365	-0.134684699	-0.1107550236	-0.3357190120	-0.130796129	0
## 1366	-0.134684699	-0.0244052860	-0.1478994694	-0.325005008	1
## 1367	-0.134684699	-0.0160303290	-0.1948543550	-0.439486031	1
## 1368	-0.134684699	0.0061315609	0.5407721866	-0.218701200	1
## 1369	-0.134684699	-0.0458113134	-0.2574608692	-0.406777167	1
## 1370	-0.134684699	-0.0453275614	0.5564238151	0.026615278	1
## 1371	-0.134684699	-0.1142924603	-0.3200673834	-0.406777167	0
## 1372	-0.134684699	-0.1245419565	-0.3435448262	-0.394511343	0
## 1373	-0.134684699	-0.1213975683	-0.3670222690	-0.531479710	0
## 1374	-0.134684699	-0.1026824116	-0.3122415691	-0.464017679	0
## 1375	-0.134684699	-0.0674592168	0.0164426303	2.115893954	0
## 1376	-0.134684699	-0.0969378562	-0.3122415691	-0.394511343	0
## 1377	-0.134684699	-0.0955470691	-0.2183317979	0.494760891	0
## 1378	-0.134684699	-0.1004752930	-0.3357190120	-0.382245519	0
## 1379	-0.134684699	-0.1178601316	-0.3357190120	-0.396555647	0
## 1380	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1381	-0.021712235	-0.0934608885	-0.2887641263	-0.224834112	1
## 1382	-0.134684699	-0.1113294792	-0.3670222690	-0.537612622	0
## 1383	0.176963478	0.0517251899	0.8538047575	0.419121644	1
## 1384	-0.134684699	-0.1097572851	-0.3044157549	-0.435397423	0
## 1385	-0.134684699	-0.0544281465	0.0320942589	0.431387468	1
## 1386	-0.134684699	-0.0197189382	0.5799012579	2.140425601	0
## 1387	-0.134684699	-0.1050104682	-0.3278931977	-0.486505023	0
## 1388	-0.134684699	-0.1075804009	-0.2731124978	-0.163504993	0
## 1389	-0.134684699	-0.1051616408	-0.2026801693	-0.192125248	0
## 1390	-0.134684699	-0.0784041065	0.1260040301	-0.271853104	1
## 1391	-0.134684699	-0.1050104682	-0.3278931977	-0.486505023	0
## 1392	-0.134684699	0.0163205881	-0.1635510980	-0.439486031	0
## 1393	-0.134684699	-0.1058872688	-0.3044157549	-0.449707551	0
## 1394	-0.134684699	-0.1015335005	-0.2809383120	-0.108308785	0
## 1395	2.424725948	-0.0697570390	-0.2809383120	-0.100131569	0

##	1396	-0.134684699	-0.1235139834	-0.3122415691	-0.008137890	1
##	1397	-0.134684699	-0.0740201037	-0.1400736551	-0.310694880	1
##	1398	-0.134684699	-0.1087897810	-0.3670222690	-0.519213887	0
##	1399	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
##	1400	-0.134684699	-0.1076408699	-0.3435448262	-0.357713871	0
##	1401	-0.134684699	-0.0639520146	0.1260040301	2.287615489	0
##	1402	0.309413952	-0.0513139928	-0.1713769122	-0.226878416	0
##	1403	-0.134684699	-0.0675196858	-0.2418092407	-0.382245519	1
##	1404	-0.134684699	0.0227303025	0.0555717017	-0.173726513	1
##	1405	-0.134684699	-0.0799460661	-0.0226864410	-0.304561968	0
##	1406	-0.134684699	-0.1151994954	-0.3122415691	-0.466061983	0
##	1407	-0.134684699	-0.1314656575	-0.3826738976	-0.531479710	0
##	1408	-0.134684699	-0.1085176705	-0.2261576121	0.276020365	0
##	1409	-0.134684699	0.7188797100	1.3546568709	-0.071511313	1
##	1410	-0.134684699	-0.0926143224	-0.2809383120	-0.384289823	0
##	1411	-0.134684699	-0.0275496742	-0.1792027265	-0.257542976	0
##	1412	-0.134684699	-0.1237256250	-0.3513706405	-0.347492352	0
##	1413	-0.134684699	-0.1314656575	-0.3826738976	-0.527391102	0
##	1414	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
##	1415	-0.134684699	3.0854853505	2.8337357685	0.549957099	1
##	1416	-0.134684699	2.4596311600	7.7326955032	2.996988972	1
##	1417	-0.134684699	0.0045896013	-0.3122415691	-0.525346798	0
##	1418	-0.134684699	-0.0393411300	-0.1635510980	-0.374068303	1
##	1419	-0.134684699	0.0429874188	0.2199138014	0.116564654	1
##	1420	-0.134684699	-0.0878070366	-0.3278931977	-0.457884767	1
##	1421	0.040617400	0.0837132930	0.3686042726	0.298507709	0
##	1422	-0.134684699	-0.0878070366	0.2042621729	-0.143061953	0
##	1423	-0.134684699	-0.0900443898	0.3607784583	0.654216602	1
##	1424	-0.134684699	-0.0972402012	-0.2183317979	-0.316827792	1
##	1425	0.289935941	-0.1101503336	-0.3200673834	-0.429264511	0
##	1426	1.559902259	0.0269026638	-0.1009445838	1.964615458	1
##	1427	0.184754682	0.3470255705	0.7677208005	0.243311501	1
##	1428	-0.134684699	-0.1314656575	-0.3826738976	-0.529435406	0
##	1429	-0.134684699	-0.1010195140	-0.1400736551	1.549621749	0
##	1430	0.414595212	0.0131459654	1.1198824428	6.014381658	1
##	1431	-0.134684699	-0.1196137327	-0.3591964548	-0.468106287	0
##	1432	-0.134684699	-0.0976937188	-0.2965899406	-0.327049312	0
##	1433	-0.134684699	0.0008102886	0.1494814729	-0.284118928	0
##	1434	-0.134684699	-0.1030452256	-0.2965899406	-0.349536656	1
##	1435	-0.134684699	-0.1195834982	-0.3200673834	-0.453796159	0
##	1436	-0.134684699	-0.0969680907	-0.0931187695	-0.114441697	1
##	1437	0.305518350	-0.0531280629	0.0320942589	1.426963510	1
##	1438	-0.134684699	-0.1087897810	-0.3670222690	-0.533524014	0
##	1439	-0.134684699	-0.0334454021	0.0164426303	-0.261631584	0
##	1440	-0.134684699	-0.0572701897	-0.2574608692	-0.470150591	1
##	1441	-0.134684699	-0.0659172572	-0.1087703980	0.067501358	1
##	1442	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1443	-0.134684699	-0.1055546893	-0.2731124978	-0.335226528	0
##	1444	-0.134684699	-0.1055546893	-0.2731124978	-0.335226528	0
##	1445	0.106842638	-0.0747457318	-0.0931187695	0.310773532	0
##	1446	-0.134684699	-0.1228488244	-0.3513706405	-0.511036671	0
##	1447	-0.134684699	-0.1046174197	-0.3435448262	-0.408821471	1
##	1448	1.361226547	-0.0653428017	-0.3357190120	-0.443574639	0
##	1449	-0.134684699	0.0213697499	0.1025265873	-0.325005008	1

## 1450	-0.134684699	-0.1241791425	-0.3670222690	-0.474239199	0
## 1451	-0.134684699	-0.1200067812	-0.3591964548	-0.466061983	0
## 1452	-0.013921030	-0.0476858525	0.1494814729	0.531558363	1
## 1453	-0.134684699	-0.1304981534	-0.3748480833	-0.482416415	0
## 1454	-0.134684699	-0.1086386085	-0.3044157549	-0.386334127	0
## 1455	-0.134684699	-0.1121155762	-0.2965899406	-0.464017679	0
## 1456	-0.134684699	-0.0160303290	-0.1948543550	-0.439486031	1
## 1457	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1458	-0.107415483	-0.1101805681	-0.1948543550	1.371767302	0
## 1459	-0.134684699	-0.0483207771	-0.2731124978	-0.425175903	1
## 1460	-0.134684699	-0.1129923768	-0.2965899406	-0.488549327	0
## 1461	-0.134684699	0.0499413543	0.6816368435	1.140760951	1
## 1462	-0.134684699	-0.0386457365	-0.0148606268	0.625596347	1
## 1463	-0.134684699	0.2055885703	1.7381217703	0.619463435	1
## 1464	-0.134684699	-0.0718129851	-0.1165962123	0.139051998	1
## 1465	-0.134684699	-0.1129621423	-0.2965899406	-0.445618943	1
## 1466	-0.134684699	-0.1304981534	-0.3748480833	-0.482416415	0
## 1467	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1468	-0.134684699	-0.1204905332	-0.3513706405	-0.486505023	0
## 1469	-0.134684699	0.0926022365	0.0399200731	-0.255498672	1
## 1470	-0.134684699	-0.1185252906	-0.3591964548	-0.527391102	0
## 1471	-0.134684699	-0.1165298135	-0.3122415691	-0.263675888	1
## 1472	-0.134684699	-0.0306940624	-0.3044157549	-0.335226528	1
## 1473	-0.134684699	0.3810696197	1.1746631427	0.222868461	0
## 1474	0.106842638	-0.0437251328	0.0712233302	-0.220745504	1
## 1475	-0.134684699	-0.0048737978	0.2355654299	-0.038802449	1
## 1476	-0.134684699	-0.1201277192	-0.3591964548	-0.525346798	0
## 1477	-0.134684699	-0.1149878539	-0.3591964548	-0.513080975	0
## 1478	-0.134684699	-0.0410947311	-0.1322478409	0.960862201	0
## 1479	-0.134684699	0.5250463180	0.7755466148	-0.222789808	1
## 1480	-0.134684699	-0.0810949772	-0.3357190120	-0.498770847	0
## 1481	-0.134684699	-0.1028638186	-0.2183317979	-0.173726513	1
## 1482	-0.134684699	0.1915899959	1.9259413129	0.288286189	1
## 1483	-0.134684699	-0.1072780559	-0.3200673834	-0.511036671	1
## 1484	-0.134684699	-0.0998706029	-0.3435448262	-0.455840463	0
## 1485	-0.134684699	-0.1093037675	-0.2965899406	0.355748220	1
## 1486	0.484716052	0.0427153083	1.1355340713	6.224944969	1
## 1487	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1488	-0.134684699	0.0285957959	0.1025265873	-0.329093616	1
## 1489	-0.134684699	-0.0853882765	-0.2496350550	-0.016315106	0
## 1490	-0.068459461	-0.0906793143	-0.1478994694	0.427298860	1
## 1491	-0.134684699	-0.1180415386	-0.3513706405	-0.335226528	0
## 1492	-0.134684699	-0.0234982510	-0.1948543550	-0.416998687	0
## 1493	-0.134684699	-0.0755318288	-0.2731124978	-0.431308815	0
## 1494	0.180859080	0.3286127588	0.7598949862	0.214691245	1
## 1495	-0.134684699	0.1023377462	-0.0618155124	-0.280030320	1
## 1496	-0.134684699	-0.0918584599	-0.2731124978	-0.410865775	0
## 1497	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 1498	0.850902659	0.0767593575	0.5955528865	2.741450974	1
## 1499	-0.134684699	-0.1136273013	-0.3513706405	-0.476283503	0
## 1500	-0.134684699	-0.1093944710	-0.3357190120	-0.455840463	0
## 1501	-0.134684699	-0.0483207771	-0.2809383120	-0.455840463	1
## 1502	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 1503	-0.134684699	-0.1314656575	-0.3826738976	-0.511036671	0

## 1504	-0.134684699	-0.0829695163	-0.2183317979	-0.292296144	1
## 1505	-0.134684699	-0.0956075381	-0.2731124978	-0.212568288	0
## 1506	-0.134684699	-0.1128109697	-0.2496350550	-0.280030320	1
## 1507	0.192545886	1.5686203874	4.5867181656	0.973128024	1
## 1508	-0.134684699	-0.0806112252	-0.2887641263	-0.322960704	0
## 1509	0.309413952	-0.0513139928	-0.1713769122	-0.226878416	0
## 1510	3.827142741	0.0811735948	0.1729589158	0.421165948	1
## 1511	-0.134684699	-0.1151994954	-0.3044157549	-0.384289823	0
## 1512	-0.134684699	0.0374847395	0.1416556587	-0.318872096	1
## 1513	-0.134684699	0.0163205881	-0.1635510980	-0.439486031	0
## 1514	-0.134684699	0.0024127172	-0.2261576121	0.073634270	1
## 1515	-0.134684699	-0.1076106354	-0.2965899406	-0.408821471	0
## 1516	-0.134684699	-0.0970587942	-0.2965899406	-0.390422735	0
## 1517	-0.134684699	-0.1146855089	-0.3591964548	-0.519213887	0
## 1518	-0.134684699	-0.0659172572	-0.1087703980	0.067501358	1
## 1519	-0.134684699	-0.0249495071	0.2199138014	0.034792494	1
## 1520	-0.134684699	-0.1098782231	-0.3670222690	-0.523302494	0
## 1521	-0.134684699	-0.0718432196	-0.2496350550	-0.322960704	1
## 1522	-0.134684699	-0.1314656575	-0.3826738976	-0.535568318	0
## 1523	-0.134684699	-0.1314656575	-0.3826738976	-0.541701230	0
## 1524	-0.134684699	-0.0454182649	-0.0852929552	-0.343403744	0
## 1525	0.067886616	-0.1087293120	-0.3044157549	-0.171682209	1
## 1526	-0.134684699	-0.1118132312	-0.2965899406	-0.480372111	0
## 1527	-0.002234224	0.2030488722	5.0171379506	2.904995293	1
## 1528	-0.134684699	0.0074014100	-0.0618155124	0.126786174	0
## 1529	-0.134684699	-0.1120853417	-0.2965899406	-0.322960704	0
## 1530	-0.134684699	-0.0975425463	-0.2652866835	-0.300473360	1
## 1531	-0.134684699	-0.1288957248	-0.3670222690	-0.365891087	0
## 1532	-0.134684699	-0.0993263819	-0.0226864410	-0.349536656	0
## 1533	-0.134684699	-0.0099531941	-0.2496350550	-0.014270802	1
## 1534	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 1535	-0.134684699	1.3500249383	0.3842559011	-0.343403744	0
## 1536	-0.134684699	-0.0041784042	-0.1087703980	-0.345448048	1
## 1537	-0.134684699	-0.0983891123	-0.1870285408	-0.320916400	0
## 1538	-0.064563859	-0.0431204427	3.4363234675	6.139084201	1
## 1539	-0.134684699	-0.1183438836	-0.3435448262	-0.480372111	1
## 1540	-0.134684699	-0.0563329201	-0.1948543550	-0.298429056	1
## 1541	-0.134684699	-0.0989333334	-0.3200673834	-0.327049312	0
## 1542	-0.006129826	0.0549602816	0.0320942589	0.331216572	1
## 1543	-0.134684699	-0.1249954740	-0.3670222690	-0.513080975	1
## 1544	-0.134684699	-0.0904676728	-0.2261576121	0.762564714	0
## 1545	-0.134684699	-0.1002636514	-0.3122415691	-0.419042991	0
## 1546	-0.134684699	-0.1314656575	-0.3826738976	-0.521258190	0
## 1547	-0.134684699	-0.0379503429	0.2903461299	-0.012226498	0
## 1548	-0.134684699	-0.1073989939	-0.2418092407	-0.132840433	1
## 1549	-0.134684699	-0.0542165050	-0.2496350550	-0.416998687	0
## 1550	-0.134684699	-0.1239070320	-0.3670222690	-0.527391102	0
## 1551	-0.134684699	-0.0886233682	-0.1322478409	-0.216656896	1
## 1552	-0.134684699	-0.0594470738	0.0242684446	-0.222789808	0
## 1553	-0.134684699	-0.1087897810	-0.3670222690	-0.533524014	0
## 1554	-0.134684699	0.0896090208	-0.1635510980	-0.275941712	1
## 1555	-0.134684699	-0.0583888662	-0.0070348125	0.004127934	1
## 1556	-0.134684699	-0.1139296463	-0.3357190120	-0.386334127	1
## 1557	-0.134684699	-0.1047383577	-0.3200673834	-0.347492352	0

##	1558	-0.134684699	-0.0777389475	-0.2809383120	-0.496726543	0
##	1559	-0.134684699	-0.0153651699	-0.0618155124	0.194248205	1
##	1560	-0.134684699	-0.1101503336	-0.2574608692	-0.369979695	0
##	1561	1.458616602	-0.1061593793	-0.2965899406	-0.408821471	0
##	1562	-0.134684699	-0.1314656575	-0.3826738976	-0.519213887	0
##	1563	-0.134684699	0.0224581920	0.2590428728	0.535646971	1
##	1564	-0.134684699	-0.1109061961	-0.2574608692	-0.224834112	1
##	1565	-0.134684699	-0.0830904543	-0.2731124978	-0.468106287	1
##	1566	-0.134684699	-0.0651613947	-0.3044157549	-0.345448048	0
##	1567	-0.134684699	-0.0305126554	0.0790491445	-0.051068273	1
##	1568	-0.134684699	-0.1175880211	-0.3122415691	-0.437441727	0
##	1569	-0.134684699	0.0553835646	1.0337984858	0.186070989	1
##	1570	-0.134684699	-0.0465369415	-0.1713769122	-0.384289823	1
##	1571	-0.134684699	-0.1007474035	-0.2418092407	-0.292296144	0
##	1572	-0.134684699	-0.0928561985	-0.3044157549	-0.464017679	0
##	1573	0.138007456	-0.0072623234	0.5172947438	6.658337414	1
##	1574	-0.134684699	-0.0643752976	0.5016431152	0.472273548	1
##	1575	-0.134684699	-0.0934004195	-0.2731124978	-0.423131599	0
##	1576	-0.134684699	-0.1039824952	-0.3513706405	-0.461973375	0
##	1577	-0.134684699	-0.0824555298	0.1573072872	0.314862140	0
##	1578	-0.134684699	-0.0915258804	-0.2183317979	-0.414954383	0
##	1579	-0.134684699	-0.0163326740	-0.2339834264	0.680792554	0
##	1580	-0.134684699	-0.0515861033	-0.3278931977	-0.443574639	1
##	1581	-0.134684699	-0.0793111416	-0.0931187695	1.803115443	0
##	1582	-0.134684699	-0.0483207771	-0.3200673834	-0.517169583	0
##	1583	-0.134684699	-0.0764993329	-0.2418092407	-0.421087295	1
##	1584	-0.134684699	-0.0575725347	-0.2731124978	-0.484460719	0
##	1585	-0.134684699	-0.0919491634	-0.2652866835	-0.486505023	1
##	1586	-0.134684699	-0.1055546893	-0.2965899406	-0.335226528	0
##	1587	-0.134684699	0.1117104418	2.4502708691	1.171425511	1
##	1588	-0.134684699	-0.1228488244	-0.3670222690	-0.511036671	0
##	1589	-0.134684699	-0.0939748750	-0.2183317979	-0.433353119	0
##	1590	-0.134684699	0.2791188791	0.3686042726	0.376191260	1
##	1591	-0.134684699	-0.0980867673	-0.1635510980	0.231045677	1
##	1592	-0.134684699	-0.1136273013	-0.3513706405	-0.476283503	0
##	1593	-0.134684699	0.0826853199	0.2433912442	-0.349536656	1
##	1594	-0.134684699	-0.1216394443	-0.3513706405	-0.439486031	1
##	1595	-0.134684699	0.0060710919	0.1651331015	0.609241915	1
##	1596	2.537698412	0.2580756657	0.4468624153	2.404140816	1
##	1597	0.371743588	-0.0566352651	-0.3357190120	-0.263675888	0
##	1598	-0.134684699	-0.0728409582	0.0086168160	-0.349536656	0
##	1599	0.379534792	0.0403570172	5.8545000777	4.411647332	1
##	1600	-0.134684699	-0.1163484065	-0.3513706405	-0.517169583	0
##	1601	0.352265577	0.0560487237	4.2658597804	4.385071380	1
##	1602	-0.134684699	-0.0646171736	-0.1400736551	0.443653292	0
##	1603	-0.134684699	-0.0535211114	-0.2339834264	-0.408821471	0
##	1604	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1605	-0.134684699	-0.1020172526	-0.2183317979	-0.237099936	0
##	1606	-0.134684699	-0.1246628945	-0.3513706405	-0.447663247	0
##	1607	-0.134684699	-0.1156530129	-0.3044157549	-0.220745504	0
##	1608	-0.134684699	-0.1213975683	-0.3357190120	-0.449707551	1
##	1609	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
##	1610	-0.134684699	-0.1300446359	-0.3748480833	-0.502859455	0
##	1611	-0.134684699	-0.0306940624	-0.2339834264	-0.494682239	0

## 1612	-0.033399041	0.0394197476	0.2042621729	0.744165978	1
## 1613	-0.134684699	-0.0743224488	0.0399200731	-0.222789808	0
## 1614	-0.134684699	-0.1241186735	-0.3044157549	-0.171682209	1
## 1615	-0.134684699	-0.1175275521	-0.3670222690	-0.508992367	1
## 1616	-0.134684699	-0.0898932173	-0.2418092407	-0.042891057	1
## 1617	-0.134684699	-0.0731130687	-0.1635510980	-0.116486001	1
## 1618	-0.134684699	-0.0439367743	0.0868749588	-0.014270802	1
## 1619	-0.134684699	-0.0814880257	-0.2731124978	-0.406777167	0
## 1620	-0.134684699	-0.0988123953	-0.2965899406	-0.335226528	1
## 1621	0.515880869	-0.0575120657	0.1886105443	1.439229334	1
## 1622	-0.134684699	-0.0014572991	-0.0774671410	-0.439486031	0
## 1623	-0.134684699	-0.0044807492	0.2355654299	-0.069467009	1
## 1624	-0.006129826	-0.0661591332	0.0477458874	1.590507829	1
## 1625	-0.134684699	-0.0830904543	-0.2731124978	-0.468106287	1
## 1626	-0.134684699	-0.0910723628	0.1260040301	-0.008137890	1
## 1627	-0.134684699	-0.1173763795	-0.3435448262	-0.502859455	0
## 1628	-0.134684699	-0.1087897810	-0.3513706405	-0.490593631	0
## 1629	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 1630	-0.134684699	-0.0614123164	0.1964363586	0.028659582	0
## 1631	-0.134684699	-0.0861139045	-0.3591964548	-0.537612622	0
## 1632	-0.134684699	-0.1134156598	-0.2339834264	0.124741870	1
## 1633	-0.134684699	-0.1222743689	-0.3435448262	-0.486505023	1
## 1634	-0.134684699	-0.1190695117	-0.3513706405	-0.386334127	0
## 1635	-0.134684699	-0.0450856854	-0.1948543550	-0.382245519	1
## 1636	0.169172273	0.2942361301	0.7598949862	0.222868461	1
## 1637	-0.134684699	-0.0760458154	-0.3044157549	-0.443574639	0
## 1638	-0.134684699	-0.0942772200	-0.2965899406	-0.488549327	1
## 1639	-0.134684699	-0.0985100503	-0.3357190120	-0.500815151	0
## 1640	-0.134684699	-0.1245419565	-0.3357190120	-0.394511343	1
## 1641	-0.134684699	-0.1314656575	-0.3826738976	-0.525346798	0
## 1642	0.192545886	1.5686203874	4.5867181656	0.973128024	1
## 1643	-0.134684699	0.0078246930	-0.1948543550	-0.226878416	1
## 1644	-0.134684699	-0.0788576241	0.1103524016	-0.245277152	0
## 1645	-0.134684699	-0.0813368532	0.0555717017	0.343482396	0
## 1646	-0.134684699	-0.1083967325	-0.3200673834	-0.410865775	0
## 1647	3.944010807	0.1185434392	0.3059977584	0.437520380	1
## 1648	-0.134684699	0.1141896709	0.1025265873	-0.398599951	0
## 1649	0.071782218	-0.0025759756	0.1573072872	0.065457054	0
## 1650	-0.134684699	-0.1056756273	-0.2887641263	-0.392467039	0
## 1651	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 1652	-0.134684699	-0.1264467301	-0.2887641263	-0.161460689	1
## 1653	-0.134684699	-0.0584191007	0.0242684446	-0.212568288	1
## 1654	-0.134684699	-0.0873837536	-0.2183317979	-0.306606272	1
## 1655	0.017243787	0.1848779365	3.7180527813	1.725431892	1
## 1656	-0.134684699	-0.0774970715	-0.1400736551	0.488627979	0
## 1657	-0.134684699	-0.0974518428	-0.3513706405	-0.513080975	0
## 1658	-0.134684699	-0.1047383577	0.0086168160	-0.247321456	0
## 1659	0.056199809	-0.0575120657	2.0981092268	1.502602757	1
## 1660	0.761303808	-0.0854789800	-0.1478994694	0.509071019	0
## 1661	-0.134684699	-0.0941260475	-0.2965899406	-0.470150591	0
## 1662	-0.134684699	-0.0503767232	0.0086168160	-0.239144240	0
## 1663	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 1664	-0.134684699	-0.0073530269	0.7051142863	-0.151239169	1
## 1665	-0.134684699	-0.0468090520	-0.2731124978	-0.508992367	1



## 1666	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 1667	-0.134684699	-0.0872023466	0.2355654299	-0.049023969	0
## 1668	-0.134684699	-0.1111783066	-0.3591964548	-0.318872096	1
## 1669	-0.134684699	-0.1187974011	-0.3513706405	-0.457884767	0
## 1670	-0.134684699	-0.0878977401	-0.2418092407	-0.038802449	1
## 1671	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1672	-0.134684699	-0.0914049424	-0.1557252837	-0.357713871	0
## 1673	-0.134684699	-0.1201277192	-0.3513706405	-0.435397423	0
## 1674	-0.134684699	-0.1223953069	-0.3513706405	-0.494682239	0
## 1675	-0.013921030	-0.0310871110	-0.0070348125	1.245020455	1
## 1676	-0.134684699	-0.0997194304	-0.3435448262	-0.464017679	1
## 1677	-0.134684699	-0.0810949772	-0.2965899406	-0.416998687	0
## 1678	0.352265577	0.0560487237	4.2658597804	4.385071380	1
## 1679	-0.134684699	-0.0888652442	-0.3044157549	-0.439486031	0
## 1680	-0.134684699	-0.1112387756	-0.2731124978	-0.165549297	0
## 1681	-0.134684699	-0.1261443851	-0.3670222690	-0.506948063	0
## 1682	0.831424648	0.0550812196	-0.0618155124	0.053191230	1
## 1683	-0.134684699	-0.0943679236	-0.3044157549	-0.447663247	0
## 1684	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 1685	-0.134684699	-0.1314656575	-0.3826738976	-0.539656926	0
## 1686	-0.134684699	-0.1149878539	-0.2731124978	-0.408821471	0
## 1687	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 1688	-0.134684699	-0.0725083786	-0.3044157549	-0.427220207	1
## 1689	-0.134684699	-0.0899536863	-0.2965899406	-0.145106257	1
## 1690	-0.084041870	0.0645748532	4.8449700366	2.328501568	1
## 1691	-0.134684699	-0.0609285644	0.0086168160	-0.363846783	0
## 1692	0.289935941	0.0527229285	0.1338298444	0.394589996	1
## 1693	-0.134684699	0.0045896013	-0.3200673834	-0.525346798	0
## 1694	-0.134684699	0.0438944539	3.4754525388	2.371431952	1
## 1695	-0.134684699	-0.1015335005	-0.2809383120	-0.108308785	0
## 1696	-0.134684699	-0.0094089731	-0.2105059836	-0.269808800	1
## 1697	-0.134684699	-0.0729921307	0.1103524016	0.633773563	1
## 1698	-0.134684699	-0.1314656575	-0.3826738976	-0.533524014	0
## 1699	-0.134684699	-0.0949423791	-0.2887641263	-0.331137920	0
## 1700	-0.134684699	-0.0746852628	0.2668686870	0.423210252	1
## 1701	-0.134684699	-0.0313289870	-0.1322478409	-0.265720192	0
## 1702	-0.134684699	-0.0902560313	-0.3513706405	-0.441530335	0
## 1703	-0.134684699	-0.0953958966	-0.2496350550	-0.269808800	0
## 1704	-0.134684699	-0.1072780559	-0.3513706405	-0.529435406	0
## 1705	-0.134684699	-0.0263705287	-0.2339834264	-0.355669567	1
## 1706	-0.134684699	-0.0917072874	-0.2965899406	-0.277986016	1
## 1707	-0.134684699	0.3397995245	0.8146756861	18.034889105	1
## 1708	-0.134684699	-0.1002938859	-0.2183317979	1.437185030	0
## 1709	-0.134684699	-0.0678824998	0.0086168160	-0.363846783	0
## 1710	-0.134684699	-0.1213975683	-0.3748480833	-0.539656926	0
## 1711	-0.134684699	-0.1314656575	-0.3826738976	-0.537612622	0
## 1712	-0.134684699	-0.1025917081	-0.2887641263	-0.275941712	0
## 1713	-0.134684699	-0.1054942203	-0.2496350550	-0.331137920	0
## 1714	-0.134684699	-0.1201277192	-0.3670222690	-0.525346798	1
## 1715	-0.134684699	-0.1087897810	-0.3670222690	-0.504903759	0
## 1716	-0.134684699	0.0163205881	-0.1635510980	-0.439486031	0
## 1717	-0.068459461	-0.0128557063	0.4155591582	1.555754661	1
## 1718	-0.033399041	0.0394197476	0.2042621729	0.744165978	1
## 1719	-0.134684699	-0.0155768115	-0.1635510980	-0.369979695	1

```
## 1720 -0.134684699 -0.1082153255 -0.3435448262 -0.500815151 0
## 1721 -0.029503439 -0.0132185203 0.5407721866 2.062742050 1
## 1722 -0.134684699 -0.1070966489 -0.3044157549 -0.433353119 0
## 1723 -0.134684699 -0.1149273849 -0.3044157549 -0.316827792 0
## 1724 -0.134684699 -0.0519186828 -0.2574608692 -0.406777167 0
## [ reached 'max' / getOption("max.print") -- omitted 1343 rows ]
```

## Standardizing Test Data

```
test_Standardized = data.frame(scale(test))
test_Standardized$V58 = test$V58
head(test_Standardized)
```

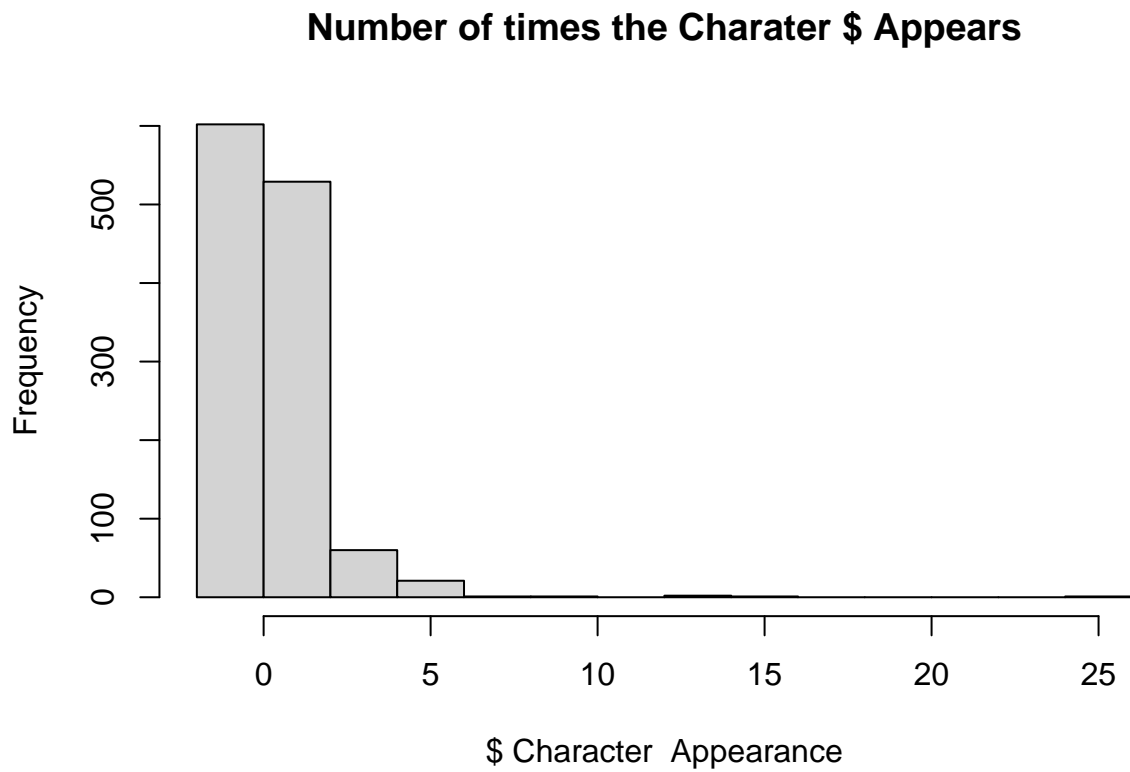
```
##          V1          V2          V3          V4          V5          V6
## 1  0.07485039 -0.0576849 -0.10401124 -0.04742051  1.5562245  0.06394306
## 2 -0.34689615 -0.1614636  0.05786903 -0.04742051  0.4979197  1.73408373
## 3 -0.34689615 -0.1614636 -0.58965203 -0.04742051 -0.4696733 -0.32147402
## 4 -0.34689615 -0.1614636  0.21974929 -0.04742051  0.1350723  0.32088777
## 5  1.44552664  0.2104101 -0.00283607 -0.04742051 -0.2580123 -0.22511975
## 6 -0.34689615 -0.1614636 -0.58965203 -0.04742051 -0.4696733 -0.32147402
##          V7          V8          V9          V10          V11          V12          V13
## 1 -0.3277633  0.03652007 -0.3128101 -0.3994284  1.7735659  0.4143739 -0.3050458
## 2  1.5704487  0.55001036  0.7189188 -0.3994284 -0.3083872 -0.2453752  0.7448832
## 3 -0.3277633 -0.27157410 -0.3128101 -0.3994284 -0.3083872 -0.6437142 -0.3050458
## 4 -0.3277633 -0.27157410 -0.3128101  1.1651426  0.8482534 -0.1457904 -0.3050458
## 5 -0.3277633  0.19056716  1.4282323  0.5610013  1.3687417  0.1654120  1.8276223
## 6 -0.3277633 -0.27157410 -0.3128101 -0.3994284 -0.3083872  0.8874015 -0.3050458
##          V14          V15          V16          V17          V18          V19
## 1 -0.1624653 -0.2128542 -0.006571992  0.2171750 -0.38011509  0.3627604
## 2 -0.1624653 -0.2128542  0.091783474  0.3935947  0.17887501  0.3174647
## 3 -0.1624653 -0.2128542 -0.301638388 -0.3120840 -0.38011509 -0.9564764
## 4 -0.1624653 -0.2128542 -0.055749724  0.5700144 -0.03074628 -0.5035195
## 5  3.9309671 -0.1038937 -0.043455291  0.6361718 -0.32770977  0.7590976
## 6 -0.1624653 -0.2128542 -0.301638388 -0.3120840 -0.38011509  0.0909863
##          V20          V21          V22          V23          V24          V25          V26
## 1 -0.1590293 -0.07702727 -0.1324636 -0.3072921 -0.2285315 -0.3327942 -0.3255686
## 2 -0.1590293  1.97663028 -0.1324636 -0.3072921  0.5495345 -0.3327942 -0.3255686
## 3 -0.1590293 -0.68153131 -0.1324636 -0.3072921 -0.2285315  0.8836259  7.3891039
## 4 -0.1590293 -0.35029622 -0.1324636  0.3076930 -0.2285315 -0.3327942 -0.3255686
## 5 -0.1590293  0.43638711 -0.1324636  1.2609198  1.0844549 -0.3327942 -0.3255686
## 6 -0.1590293 -0.17639780 -0.1324636 -0.3072921  1.2546569 -0.3327942 -0.3255686
##          V27          V28          V29          V30          V31          V32          V33
## 1 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 2 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 3 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 4 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 5 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
## 6 -0.2172399 -0.2434616 -0.1648326 -0.2344916 -0.1784777 -0.1414031 -0.2160987
##          V34          V35          V36          V37          V38          V39          V40
## 1 -0.1437275 -0.2215117  2.0786000 -0.3262825 -0.05147839 -0.2160424  0.1232674
## 2 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424 -0.1910567
## 3 -0.1437275 -0.2215117 -0.2414809  4.6722887 -0.05147839 -0.2160424 -0.1910567
## 4 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424  0.3328167
```

```
## 5 -0.1437275 -0.2215117 -0.2414809 -0.3262825 -0.05147839 -0.2160424 -0.1910567
## 6 -0.1437275 -0.2215117 -0.2414809 1.1119856 -0.05147839 -0.2160424 -0.1910567
##      V41      V42      V43      V44      V45      V46      V47
## 1 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.1811794 -0.1994938 -0.05346003
## 2 -0.1293373 -0.1815671 -0.2201468 -0.1073966 0.3562613 -0.1994938 -0.05346003
## 3 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.3052042 -0.1994938 -0.05346003
## 4 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.3052042 -0.1994938 -0.05346003
## 5 -0.1293373 -0.1815671 -0.2201468 -0.1073966 -0.2741980 -0.1994938 -0.05346003
## 6 -0.1293373 1.5865197 -0.2201468 -0.1073966 0.9660498 2.0354888 -0.05346003
##      V48      V49      V50      V51      V52      V53      V54
## 1 -0.1171922 0.0852166 -0.55177374 -0.1636925 -0.3142514 -0.1271942 -0.1051366
## 2 -0.1171922 -0.1842956 0.08437623 -0.1636925 -0.3669454 0.3411686 -0.1051366
## 3 -0.1171922 -0.1842956 -0.64532520 -0.1636925 -0.3669454 -0.2941757 -0.1051366
## 4 -0.1171922 -0.1842956 -0.50499801 -0.1636925 -0.3669454 0.9357857 -0.1051366
## 5 -0.1171922 -0.1312768 -0.28047449 -0.1636925 0.2024071 1.7829114 0.1556432
## 6 -0.1171922 -0.1842956 -0.18692302 -0.1636925 -0.2409939 -0.2941757 -0.1051366
##      V55      V56      V57 V58
## 1 -0.097670106 0.05930975 -0.07587656 1
## 2 -0.110805982 -0.24996062 -0.22013679 1
## 3 -0.112691934 -0.33037091 -0.38363171 0
## 4 -0.111354224 -0.29944387 -0.16380661 1
## 5 -0.004710206 4.20353264 2.78047594 1
## 6 -0.113547192 -0.27470224 -0.32867544 0
```

## A) Visualizing Standardized columns

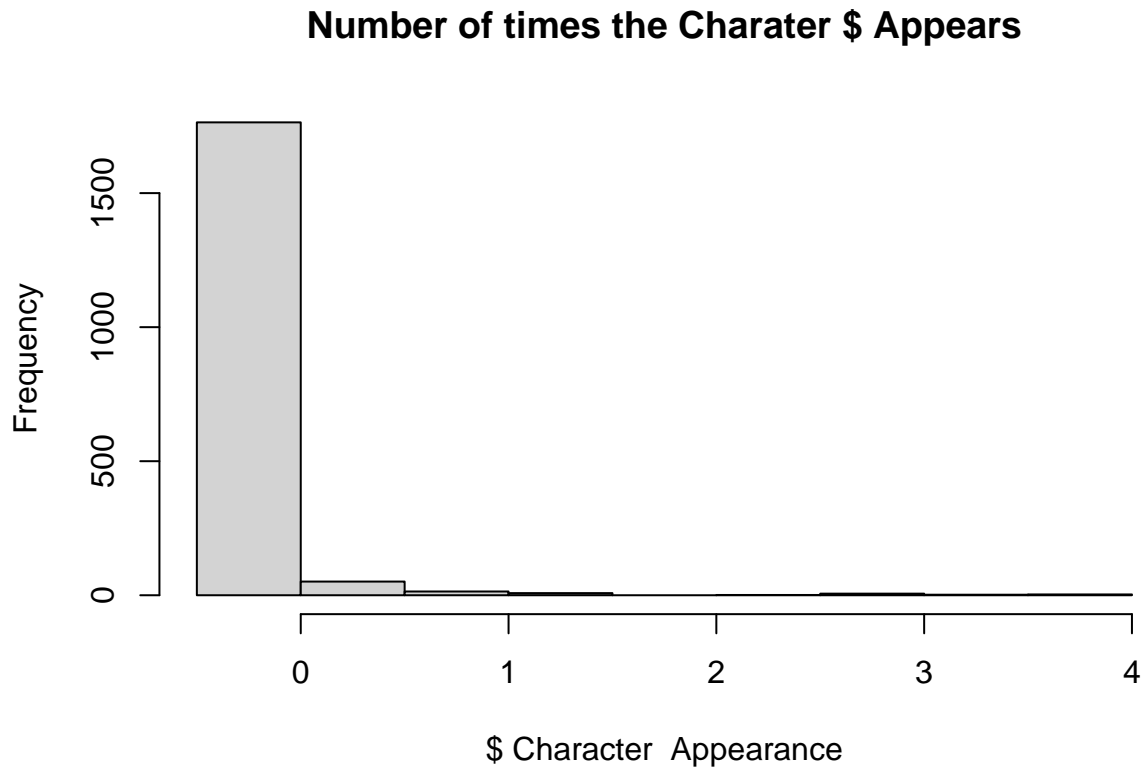
Training Standardized Spam Data V\$58 == 1

```
spamStandTrain = train_Standardized[train_Standardized$V58 == 1,]
hist(spamStandTrain$V53,main="Number of times the Charater $ Appears", xlab="$ Character Appearance")
```



Training Standardized Not Spam Data V\$58 == 0

```
NotspamStandTrain = train_Standardized[train_Standardized$V58 == 0,]  
hist(NotspamStandTrain$V53,main="Number of times the Charater $ Appears", xlab="$ Character Appearance")
```



# Log Transformation

Log Transformation on Train Data

```
train_Log = data.frame(log(train+1))
train_Log$V58 = train$V58
head(train_Log)
```

```
##           V1 V2           V3           V4           V5           V6 V7           V8           V9
## 1 0.00000000 0 0.0000000 0.000000 0.0000000 0.0000000 0 0.0000000 0.000000
## 2 0.00000000 0 0.4637340 0.10436 0.0000000 0.0000000 0 0.0000000 0.10436
## 3 0.05826891 0 0.3364722 0.000000 0.1222176 0.1222176 0 0.1222176 0.000000
## 4 0.00000000 0 0.0000000 0.000000 0.0000000 0.0000000 0 0.0000000 0.000000
## 5 0.00000000 0 0.0000000 0.000000 0.0000000 0.3646431 0 0.0000000 0.000000
## 6 0.00000000 0 0.4252677 0.000000 0.0000000 0.4252677 0 0.0000000 0.000000
##           V10 V11           V12           V13           V14 V15           V16           V17 V18
## 1 0.00000000 0 0.0000000 0.0000000 0.00000000 0 0.000000 0.0000000 0
## 2 0.2070142 0 0.1043600 0.0000000 0.00000000 0 0.10436 0.0000000 0
## 3 0.00000000 0 0.8754687 0.1823216 0.05826891 0 0.000000 0.1823216 0
## 4 0.00000000 0 0.0000000 0.0000000 0.00000000 0 0.000000 0.0000000 0
## 5 0.00000000 0 0.3646431 0.3646431 0.00000000 0 0.000000 0.0000000 0
## 6 0.4252677 0 0.0000000 0.4252677 0.00000000 0 0.000000 0.0000000 0
##           V19 V20           V21 V22 V23 V24           V25           V26           V27           V28 V29
## 1 1.20896035 0 0.0000000 0 0 0 0.7747272 0.000000 0.7747272 1.20896 0
## 2 0.66782937 0 0.3852624 0 0 0 0.2070142 0.000000 0.5364934 0.00000 0
## 3 0.05826891 0 0.0000000 0 0 0 1.2641267 0.000000 0.0000000 0.00000 0
## 4 0.00000000 0 0.0000000 0 0 0 1.2697605 1.269761 1.2697605 0.00000 0
```

```
## 5 0.84156719 0 0.0000000 0 0 0 0.0000000 0.000000 0.6312718 0.00000 0
## 6 1.14740245 0 0.4252677 0 0 0 0.0000000 0.000000 0.0000000 0.00000 0
##      V30 V31 V32      V33      V34      V35      V36      V37 V38 V39 V40 V41
## 1 0 0 0 0.7747272 0.00000 0.7747272 0.00000000 0.00000000 0 0 0 0
## 2 0 0 0 0.0000000 0.10436 0.0000000 0.38526240 0.00000000 0 0 0 0
## 3 0 0 0 0.0000000 0.00000 0.0000000 0.05826891 0.05826891 0 0 0 0
## 4 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
## 5 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
## 6 0 0 0 0.0000000 0.00000 0.0000000 0.00000000 0.00000000 0 0 0 0
##      V42 V43 V44      V45      V46 V47 V48      V49      V50      V51
## 1 0 0 0 0.00000000 0.0000000 0 0 0.00000000 0.47623418 0.0000000
## 2 0 0 0 0.00000000 0.0000000 0 0 0.20457217 0.27914574 0.1070591
## 3 0 0 0 0.05826891 0.0000000 0 0 0.02761517 0.08157999 0.0000000
## 4 0 0 0 1.26976054 0.0000000 0 0 0.00000000 0.00000000 0.0000000
## 5 0 0 0 0.36464311 0.3646431 0 0 0.00000000 0.13976194 0.0000000
## 6 0 0 0 0.72754861 0.0000000 0 0 0.00000000 0.09621886 0.0000000
##      V52      V53 V54      V55      V56      V57 V58
## 1 0.18481844 0.00000000 0 1.2644092 2.772589 4.127134 0
## 2 0.05448819 0.07232066 0 1.2658202 3.663562 6.400257 0
## 3 0.00000000 0.00000000 0 1.2062702 3.135494 6.501290 0
## 4 0.00000000 0.00000000 0 0.9162907 1.609438 3.218876 0
## 5 0.00000000 0.00000000 0 0.9604990 2.484907 4.276666 0
## 6 0.00000000 0.00000000 0 1.0497721 2.833213 3.970292 0
```

Log Transformation on Test Data

```
test_Log = data.frame(log(test+1))
test_Log$V58 = test$V58
head(test_Log)
```

```
##      V1      V2      V3 V4      V5      V6      V7      V8
## 1 0.1133287 0.1133287 0.2151114 0 0.8501509 0.1133287 0.0000000 0.1133287
## 2 0.0000000 0.0000000 0.2776317 0 0.4946962 0.4946962 0.4946962 0.2776317
## 3 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
## 4 0.0000000 0.0000000 0.3364722 0 0.3364722 0.1823216 0.0000000 0.0000000
## 5 0.4121097 0.3576744 0.2546422 0 0.1310283 0.0295588 0.0000000 0.1655144
## 6 0.0000000 0.0000000 0.0000000 0 0.0000000 0.0000000 0.0000000 0.0000000
##      V9      V10      V11      V12      V13      V14      V15
## 1 0.0000000 0.0000000 0.3074847 0.6151856 0.0000000 0.0000000 0.0000000
## 2 0.2776317 0.0000000 0.0000000 0.2776317 0.2776317 0.0000000 0.0000000
## 3 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000
## 4 0.0000000 0.6981347 0.1823216 0.3364722 0.0000000 0.0000000 0.0000000
## 5 0.4317824 0.4824261 0.2546422 0.5007753 0.5007753 0.7884574 0.0295588
## 6 0.0000000 0.0000000 0.0000000 0.8020016 0.0000000 0.0000000 0.0000000
##      V16      V17      V18      V19 V20      V21 V22      V23      V24
## 1 0.2151114 0.2151114 0.0000000 1.2029723 0 0.5481214 0 0.0000000 0.0000000
## 2 0.2776317 0.2776317 0.2776317 1.1786550 0 1.4374626 0 0.0000000 0.2776317
## 3 0.0000000 0.0000000 0.0000000 0.0000000 0 0.0000000 0 0.0000000 0.0000000
## 4 0.1823216 0.3364722 0.1823216 0.5877867 0 0.3364722 0 0.1823216 0.0000000
## 5 0.1906204 0.3576744 0.0295588 1.3937664 0 0.8544153 0 0.4121097 0.4317824
## 6 0.0000000 0.0000000 0.0000000 1.0473190 0 0.4762342 0 0.0000000 0.4762342
##      V25      V26 V27 V28 V29 V30 V31 V32 V33 V34 V35      V36      V37 V38
## 1 0.0000000 0.000000 0 0 0 0 0 0 0 0 0 0.6830968 0.0000000 0
```

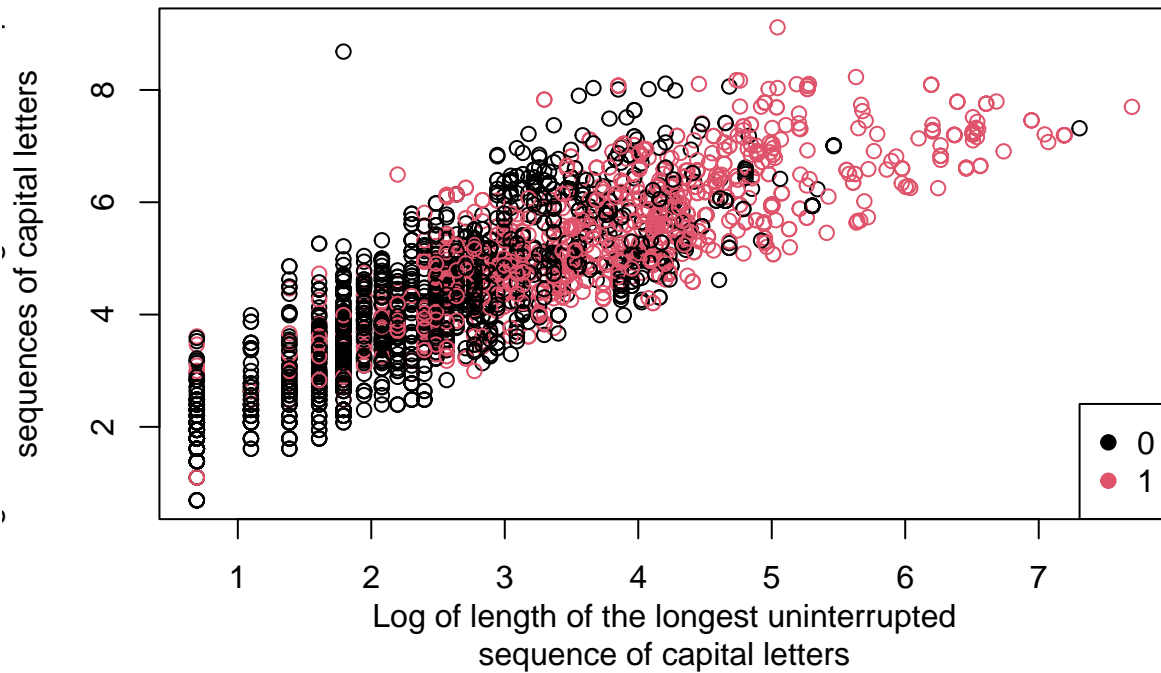
```
## 2 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 3 1.137833 1.998774 0 0 0 0 0 0 0 0 0 0.000000 1.137833 0
## 4 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 5 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.000000 0
## 6 0.000000 0.000000 0 0 0 0 0 0 0 0 0 0.000000 0.4762342 0
## V39 V40 V41 V42 V43 V44 V45 V46 V47 V48 V49
## 1 0 0.1133287 0 0.0000000 0 0 0.1133287 0.000000 0 0 0.05921186
## 2 0 0.0000000 0 0.0000000 0 0 0.4946962 0.000000 0 0 0.00000000
## 3 0 0.0000000 0 0.0000000 0 0 0.0000000 0.000000 0 0 0.00000000
## 4 0 0.1823216 0 0.0000000 0 0 0.0000000 0.000000 0 0 0.00000000
## 5 0 0.0000000 0 0.0000000 0 0 0.0295588 0.000000 0 0 0.01192857
## 6 0 0.0000000 0 0.8020016 0 0 0.8020016 1.047319 0 0 0.00000000
## V50 V51 V52 V53 V54 V55 V56 V57 V58
## 1 0.01980263 0 0.04018179 0.04018179 0.000000 1.2092588 4.248495 5.541264 1
## 2 0.14496577 0 0.00000000 0.14496577 0.000000 1.0123279 2.995732 5.010635 1
## 3 0.00000000 0 0.00000000 0.00000000 0.000000 0.9805792 1.945910 3.433987 0
## 4 0.02955880 0 0.00000000 0.26390154 0.000000 1.0032021 2.484907 5.252273 1
## 5 0.07510747 0 0.36672428 0.41210965 0.124869 2.0268316 6.606650 7.755339 1
## 6 0.09349034 0 0.09349034 0.00000000 0.000000 0.9658425 2.772589 4.262680 0
```

## Visualizing Log Transformation

0 = Not Spam, 1 = Spam

```
plot(train_Log$V56, train_Log$V57, col=factor(train_Log$V58),xlab="Log of length of the longest uninter-
sequence of capital letters", ylab="Log of sum of the lengths of uninterrupted
sequences of capital letters",main="Log of Longest Capital Letters vs. Sum of number of capital letters",
legend("bottomright",
      legend = levels(factor(train_Log$V58)),
      pch = 19,
      col = factor(levels(factor(train_Log$V58))))
```

## Log of Longest Capital Letters vs. Sum of number of capital letters



## Discretize Transformation

Discretize Transformation on Train Data

```
train_Discretize = data.frame(train>0)
train_Discretize$V58 = train$V58
train_Discretize = train_Discretize*1
head(train_Discretize)
```

```
##   V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21
## 1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0
## 2  0  0  1  1  0  0  0  0  1  1  0  1  0  0  0  1  0  0  1  0  1
## 3  1  0  1  0  1  1  0  1  0  0  0  1  1  1  0  0  1  0  1  0  0
## 4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 5  0  0  0  0  0  1  0  0  0  0  0  1  1  0  0  0  0  0  1  0  0
## 6  0  0  1  0  0  1  0  0  0  1  0  0  1  0  0  0  0  0  1  0  1
##   V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38 V39 V40
## 1  0  0  0  1  0  1  1  0  0  0  0  0  1  0  1  0  0  0  0
## 2  0  0  0  1  0  1  0  0  0  0  0  0  0  1  0  1  0  0  0
## 3  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0
## 4  0  0  0  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
## 5  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0
## 6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
##   V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56 V57 V58
```



```
## 1  0  0  0  0  0  0  0  0  0  0  1  0  1  0  0  1  1  1  0
## 2  0  0  0  0  0  0  0  0  0  1  1  1  1  1  0  1  1  1  0
## 3  0  0  0  0  1  0  0  0  0  1  1  0  0  0  0  1  1  1  0
## 4  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  1  1  1  0
## 5  0  0  0  0  1  1  0  0  0  0  1  0  0  0  0  1  1  1  0
## 6  0  0  0  0  1  0  0  0  0  0  1  0  0  0  0  1  1  1  0
```

Discretize Transformation on Test Data

```
test_Discretize = data.frame(test>0)
test_Discretize$V58 = test$V58
test_Discretize = test_Discretize*1
head(test_Discretize)
```

```
##   V1 V2 V3 V4 V5 V6 V7 V8 V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20 V21
## 1  1  1  1  0  1  1  0  1  0  0  1  1  0  0  0  1  1  0  1  0  1
## 2  0  0  1  0  1  1  1  1  1  0  0  1  1  0  0  1  1  1  1  0  1
## 3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 4  0  0  1  0  1  1  0  0  0  1  1  1  0  0  0  1  1  1  1  0  1
## 5  1  1  1  0  1  1  0  1  1  1  1  1  1  1  1  1  1  1  1  0  1
## 6  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  1  0  1
##   V22 V23 V24 V25 V26 V27 V28 V29 V30 V31 V32 V33 V34 V35 V36 V37 V38 V39 V40
## 1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  1
## 2  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 3  0  0  0  1  1  0  0  0  0  0  0  0  0  0  0  1  0  0  0
## 4  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1
## 5  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
## 6  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0
##   V41 V42 V43 V44 V45 V46 V47 V48 V49 V50 V51 V52 V53 V54 V55 V56 V57 V58
## 1  0  0  0  0  1  0  0  0  1  1  0  1  1  0  1  1  1  1
## 2  0  0  0  0  1  0  0  0  0  1  0  0  1  0  1  1  1  1
## 3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0
## 4  0  0  0  0  0  0  0  0  0  1  0  0  1  0  1  1  1  1
## 5  0  0  0  0  1  0  0  0  1  1  0  1  1  1  1  1  1  1
## 6  0  1  0  0  1  1  0  0  0  1  0  1  0  0  1  1  1  0
```

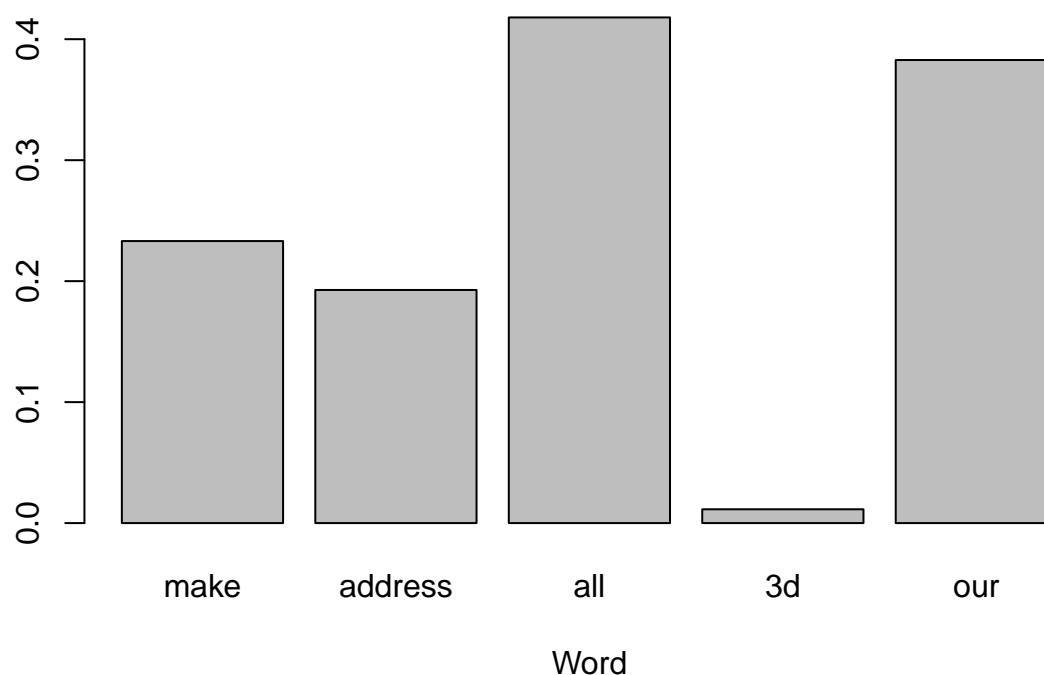
## Visualization of Discretized Transformed Data

First five columns are if the words “make”, “address”, “all”, “3d”, “our” are present in the email.

```
discLabels = c("make", "address", "all", "3d", "our")
means = c(mean(train_Discretize$V1),mean(train_Discretize$V2),mean(train_Discretize$V3),mean(train_Discretize$V4),mean(train_Discretize$V5))

barplot(means, main="Ratio of a word being present in all of the training emails",names.arg = discLabels,
        xlab="Word")
```

**Ratio of a word being present in all of the training emails**



## C) LDA and QDA

LDA on the standardized data

```
stan_model <- lda(V58~., data=train_Standardized)
stan_predictions <- predict(stan_model, test_Standardized)
stan_class = stan_predictions$class
stan_true_val = test_Standardized$V58
stan_test_error = mean(stan_class!=stan_true_val)
stan_test_error
```

```
## [1] 0.1029987
```

LDA on the log transformed data

```
log_model <- lda(V58~., data=train_Log)
log_predictions <- predict(log_model, test_Log)
log_class = log_predictions$class
log_true_val = test_Log$V58
log_test_error = mean(log_class!=log_true_val)
log_test_error
```

```
## [1] 0.06518905
```

QDA on the standardized data

```
stan_qda <- qda(V58~., data=train_Standardized)
stan_qdaPred <- predict(stan_qda, test_Standardized)
stan_qdaClass = stan_qdaPred$class
stan_qdaTrue = test_Standardized$V58
stan_qdaTest = mean(stan_qdaClass != stan_qdaTrue)
stan_qdaTest
```

```
## [1] 0.1747066
```

QDA on the transformed data

```
log_qda = qda(V58~., data=train_Log)
log_qdaPred = predict(log_qda, test_Log)
log_qdaTest = mean(log_qdaPred$class != test_Log$V58)
log_qdaTest
```

```
## [1] 0.1571056
```

Test error rates in a table

```
tab <- matrix(c(stan_test_error, stan_qdaTest,
                log_test_error, log_qdaTest), nrow=4, ncol=1)
colnames(tab) <- c('Test Error Rate')
rownames(tab) <- c('LDA on Standardized Data',
                  'QDA on Standardized Data',
                  'LDA on Log Transformed Data',
                  'QDA on Log Transformed Data')
tab <- as.table(tab)
tab
```

```
##                                Test Error Rate
## LDA on Standardized Data        0.10299870
## QDA on Standardized Data        0.17470665
## LDA on Log Transformed Data     0.06518905
## QDA on Log Transformed Data     0.15710561
```

Comment: LDA performed on the log transformed data has the lowest test error rate, while LDA performed on the standardized data has the highest test error rate. Both LDA and QDA are performed considering all the features.