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Type 'q()' to quit R.

```
> data=read.table(file="d:/R/andy/mywork.txt")
> data
  V1 V2 V3 V4 V5 V6 V7 V8
1 3+600 7 3 1 2 5 4 3
2 3+1000 3 5 6 4 2 6 5
3 5+450 1 1 5 1 1 1 1
4 5+600 2 2 2 3 7 2 7
5 5+1000 4 4 3 5 3 3 4
6 8+450 6 6 4 6 6 5 6
7 8+600 5 7 7 7 4 7 2
> Choice=data[["V1"]]
> R1=data[["V2"]]
> R2=data[["V3"]]
> R3=data[["V4"]]
> R4=data[["V5"]]
> R5=data[["V6"]]
> R6=data[["V7"]]
> R7=data[["V8"]]
> local({pkg <- select.list(sort(.packages(all.available = TRUE)))
+ if(nchar(pkg)) library(pkg, character.only=TRUE)})
Loading required package: MASS
MNP: R Package for Fitting the Multinomial Probit Model
Version: 2.3-6
> res<-mnp(choice~R1+R2+R3+R4+R5+R6+R7+R8, n.draws=50,burnin=0,thin=0,verbose=TRUE)
Error in eval(expr, envir, enclos) : object "choice" not found
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6+R7+R8, n.draws=50,burnin=0,thin=0,verbose=TRUE)
Error in eval(expr, envir, enclos) : object "R8" not found
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6+R7, n.draws=50,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000'.

The total number of alternatives is 7.

The dimension of beta is 48.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

```
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6 + R7, n.draws = 50, :
SWP: singular matrix.
```

```
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6+R7, n.draws=10,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000'.

The total number of alternatives is 7.

The dimension of beta is 48.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

```
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6 + R7, n.draws = 10, :
SWP: singular matrix.
```

```
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=50,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000`.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

10 percent done.

20 percent done.

30 percent done.

40 percent done.

```
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 50, burnin = 0, :  
  TruncNorm: lower bound is greater than upper bound
```

```
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=45,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000`.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

10 percent done.

20 percent done.

30 percent done.

40 percent done.

50 percent done.

```
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 45, burnin = 0, :  
  TruncNorm: lower bound is greater than upper bound
```

```
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=40,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000`.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

10 percent done.

20 percent done.

30 percent done.

40 percent done.

```
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 40, burnin = 0, :  
  TruncNorm: lower bound is greater than upper bound
```

```
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=35,burnin=0,thin=0,verbose=TRUE)
```

The base category is `3+1000`.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

10 percent done.

20 percent done.

30 percent done.

```

40 percent done.
50 percent done.
60 percent done.
70 percent done.
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 35, burnin = 0, :
  TruncNorm: lower bound is greater than upper bound
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=30,burnin=0,thin=0,verbose=TRUE)

```

The base category is `3+1000'.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

```

10 percent done.
20 percent done.
30 percent done.
40 percent done.
50 percent done.
60 percent done.
Error in mnp(Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 30, burnin = 0, :
  TruncNorm: lower bound is greater than upper bound
> res<-mnp(Choice~R1+R2+R3+R4+R5+R6, n.draws=25,burnin=0,thin=0,verbose=TRUE)

```

The base category is `3+1000'.

The total number of alternatives is 7.

The dimension of beta is 42.

The number of observations is 7.

Improper prior will be used for beta.

Starting Gibbs sampler...

```

10 percent done.
20 percent done.
30 percent done.
40 percent done.
50 percent done.
60 percent done.
70 percent done.
80 percent done.
90 percent done.
100 percent done.
110 percent done.
120 percent done.
> summary(res)

```

Call:

```

mnp(formula = Choice ~ R1 + R2 + R3 + R4 + R5 + R6, n.draws = 25,
    burnin = 0, thin = 0, verbose = TRUE)

```

Coefficients:

	mean	std.dev.	2.5%	97.5%
(Intercept):3+600	-263.0693	461.1035	-1395.4465	23.188
(Intercept):5+1000	-180.3856	205.5301	-700.2824	1.105
(Intercept):5+450	692.8960	982.4109	3.3068	2865.343
(Intercept):5+600	559.3435	895.6331	9.9546	2799.393
(Intercept):8+450	172.1607	159.3339	12.1827	572.260
(Intercept):8+600	-833.6153	1097.0416	-3423.1700	-19.275
R1:3+600	-68.3370	131.8405	-417.7923	20.317
R1:5+1000	191.1797	259.1239	1.6548	838.522
R1:5+450	-0.4170	47.2712	-98.8192	95.754
R1:5+600	-36.0729	81.8911	-265.1223	15.119
R1:8+450	21.3871	72.2722	-41.3114	190.821
R1:8+600	204.4293	267.7314	4.5612	832.009
R2:3+600	1270.1288	2201.2761	-5.9265	6994.590

R2:5+1000	-499.5972	665.2031	-2162.4754	-6.241
R2:5+450	-122.3431	407.0268	-1268.4461	473.257
R2:5+600	-9.5995	188.5574	-219.7686	509.449
R2:8+450	315.8033	354.6140	12.2644	1151.747
R2:8+600	-817.7127	1000.5186	-3122.6460	-21.195
R3:3+600	-204.4757	331.9738	-1072.6315	-0.530
R3:5+1000	63.3494	72.6029	0.4130	249.186
R3:5+450	-16.4783	46.7045	-126.5849	34.963
R3:5+600	-102.0586	168.6560	-535.6559	-1.316
R3:8+450	1.7557	33.9114	-42.7920	75.117
R3:8+600	193.1543	257.0272	4.3430	800.776
R4:3+600	-1149.3052	1966.4339	-6160.9193	2.232
R4:5+1000	465.0080	644.8774	5.5791	2057.619
R4:5+450	97.2637	218.3064	-123.0245	749.786
R4:5+600	51.4009	69.3273	-68.3780	187.151
R4:8+450	-153.5374	160.5817	-509.7968	-6.720
R4:8+600	386.3239	460.4790	10.7586	1436.440
R5:3+600	146.1842	260.1463	-0.6042	795.185
R5:5+1000	-90.6944	139.9063	-425.1279	-1.171
R5:5+450	-126.5152	176.1627	-531.7850	-1.386
R5:5+600	-43.5366	58.0515	-175.2552	-0.483
R5:8+450	-6.6361	15.1968	-44.1196	10.279
R5:8+600	10.4863	19.7683	-2.8893	60.538
R6:3+600	-77.4229	175.8354	-604.1993	10.323
R6:5+1000	-89.9406	148.4901	-453.7491	2.510
R6:5+450	-22.9866	178.7760	-500.8959	269.275
R6:5+600	-1.3309	64.9809	-166.4879	67.143
R6:8+450	-241.0535	341.2748	-1066.8109	-5.230
R6:8+600	208.9924	240.7676	6.0976	756.100

Covariances:

	mean	std.dev.	2.5%	97.5%
3+600:3+600	1.00000	0.00000	1.00000	1.000
3+600:5+1000	0.17440	0.31119	-0.43554	0.618
3+600:5+450	0.17938	0.47661	-0.56918	1.239
3+600:5+600	-0.06057	0.44702	-0.82673	0.679
3+600:8+450	-0.05717	0.30435	-0.68764	0.459
3+600:8+600	0.34184	0.31232	-0.04538	1.042
5+1000:5+1000	1.11423	0.74465	0.27808	2.625
5+1000:5+450	0.34133	0.98748	-1.36842	2.289
5+1000:5+600	0.20338	0.48767	-0.51902	1.198
5+1000:8+450	-0.12223	0.37808	-0.92137	0.461
5+1000:8+600	0.43305	0.71089	-0.36159	2.468
5+450:5+450	4.08866	4.99026	0.22647	13.813
5+450:5+600	0.45550	1.93843	-2.43312	5.581
5+450:8+450	-0.30304	1.10923	-3.12250	1.275
5+450:8+600	1.36988	2.72362	-0.38039	8.740
5+600:5+600	1.46010	1.04889	0.44992	3.742
5+600:8+450	-0.13476	0.46056	-1.11013	0.626
5+600:8+600	0.15252	0.96553	-1.35892	2.470
8+450:8+450	0.93900	0.52273	0.18841	1.897
8+450:8+600	-0.39437	0.82763	-2.49218	0.486
8+600:8+600	2.21028	3.02739	0.27079	10.873

Base category: 3+1000

Number of alternatives: 7

Number of observations: 7

Number of estimated parameters: 62

Number of stored MCMC draws: 25

>