**Pregunta 1**: ¿Qué significan los números enteros que aparecen en el antecedente y en el consecuente de las reglas generadas por el algoritmo apriori en Weka?

Las veces que se repítete el ítem-sets en la base de datos

PREGUNTA 1:

El número que aparece en el antecedente (parte izquierda de la regla) es el número de ejemplos que cumplen el antecedente.

El número que aparece en el consecuente (parte derecha de la regla) es el número de ejemplos que cumplen a la vez el antecedente y el consecuente de la regla.

¿Se pueden utilizar para calcular el valor de la confianza mostrado a continuación de cada regla? En caso afirmativo indica cómo se utilizarían estos números para calcular la confianza de la tercera regla.

Si se puede utilizar para calcular la confianza. En este caso mi tercera regla tiene en el antecedente 770 y en mi consecuente 705 con lo que la **confianza** sería 705/770 = 0.9155   
**Pregunta 2:** ¿Cuál es el soporte de la segunda regla obtenida?

El soporte de la segunda regla es 696/4627 = 0.1504

Por defecto, ¿qué mínimo soporte está considerando el algoritmo apriori en weka para considerar los *ítem-sets*?

Por defecto se considera el 0.15 de soporte para considerar los ítem-sets

PREGUNTA 2:

El mínimo soporte establecido por defecto por Weka es 0.1, el valor indicado en el parámetro lowerBoundMinSupport.



**Pregunta 3:** ¿Cuál es el criterio que se está utilizando para considerar las mejores reglas?

Tener un mínimo de confianza del 0.9 y una cobertura de 694

**Pregunta 4:** Explica qué conclusión se puede extraer de la primera regla mostrada. ¿Qué utilidad puede tener este tipo de conclusiones?

En el caso que el carro de compras tenga: galletas, comida congelada, frutas y han pagado más de $100 es probable que puedan llevar pan y pastel

PREGUNTA 4:

Este tipo de conclusiones nos  pueden servir para definir estrategias de marketing, conocer qué productos adquieren conjuntamente nuestros clientes, posicionamiento de productos en el supermercado, etc. Por ejemplo, podemos decidir colocar los productos estratégicamente tal que los clientes tengan que pasar por determinados pasillos A y B para realizar las compras habituales (indicadas en la regla),  promoviendo la adquisición adicional de los productos en los pasillos A y B. Además si existe una serie de clientes que adquieren tanto los productos marcados en el antecedente como en el consecuente de la regla, y otros cuantos clientes que adquieren los productos del antecedente pero no los del consecuente, quizás el motivo sea desconocimiento del producto en el consecuente (porque hay clientes con cestas similares de la compra que sí les satisfacen dichos productos). Por tanto podemos intentar marcar alguna estrategia para conseguir que los clientes que no compran el producto indicado en el consecuente, lo conozcan y lo acaben adquiriendo.

**Pregunta 5:** A partir de la salida obtenida en el paso 4, localiza e indica el *ítem-set* correspondiente a la primera regla y describe brevemente cómo el algoritmo ha determinado esa regla como la mejor regla de las posibles a partir del *ítem-set*.

La primera regla se encuentra en el 5to itemset, a partir de ahí se realiza un conjunto de reglas donde se valida que cumpla con la confianza de 0.9 y a cobertura de 0.15 y fue determinado como la mejor regla por ser la primera en cumplir con el mínimo de confianza y soporte.

PREGUNTA 5:

El itemset asociado a la primera regla se encuentra entre los 105 itemsets de cinco elementos L(5) y es:

bread and cake=t biscuits=t frozen foods=t fruit=t total=high 723

El algoritmo genera todas las posibles reglas a partir de este itemset. Por ejemplo, tres posibles combinaciones serían:

biscuits=t frozen foods=t fruit=t total=high ==> bread and cake=t

bread and cake=t biscuits=t frozen foods=t fruit=t ==>  total=high

bread and cake=t biscuits=t total=high ==>   frozen foods=t fruit=t

Entonces Weka ordena las reglas en base a una métrica establecida (metricType), por defecto en base a la confianza. Finalmente se consideran sólo aquellas reglas que superan un valor mínimo de la métrica (parámetro minMetric), establecido por defecto en 0.9. Por tanto las reglas que tienen una confianza mínima de 0.9 son las que muestra Weka en la salida.

**Pregunta 6:** ¿Por qué en el paso 5 Weka no muestra ninguna salida? ¿Qué parámetro se puede modificar para que se visualicen reglas? Ten en cuenta que las reglas generadas deben contener el atributo «cheese» en el consecuente por lo que no vale establecer de nuevo el parámetro car a *false*. Modifica el parámetro, indica el valor que estableces, ejecuta de nuevo el algoritmo e incluye en esta respuesta las mejores reglas encontradas por Weka. ¿Encuentras alguna utilidad en obligar a que un atributo esté presente en el consecuente de las reglas?

No se muestra ninguna salida porque ninguna regla cumple con el mínimo de confianza establecido

Se puede modificar el minMetric con 0.6, la utilidad que se puede dar a este atributo es cuando se necesita analizar el consecuente y que confianza hay atreves del antecedente

Best rules found:

1. biscuits=t frozen foods=t margarine=t total=high 721 ==> cheese=t 485 conf:(0.67)

2. party snack foods=t margarine=t total=high 742 ==> cheese=t 496 conf:(0.67)

3. biscuits=t margarine=t total=high 856 ==> cheese=t 569 conf:(0.66)

4. juice-sat-cord-ms=t margarine=t total=high 768 ==> cheese=t 510 conf:(0.66)

5. bread and cake=t biscuits=t margarine=t total=high 762 ==> cheese=t 506 conf:(0.66)

6. baking needs=t biscuits=t margarine=t total=high 720 ==> cheese=t 477 conf:(0.66)

7. sauces-gravy-pkle=t margarine=t total=high 767 ==> cheese=t 508 conf:(0.66)

8. bread and cake=t tissues-paper prd=t margarine=t total=high 713 ==> cheese=t 471 conf:(0.66)

9. tissues-paper prd=t margarine=t total=high 816 ==> cheese=t 539 conf:(0.66)

10. margarine=t fruit=t vegetables=t total=high 711 ==> cheese=t 468 <conf:(0.66)>

ANEXOS

=== Run information ===

Scheme: weka.associations.Apriori -I -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1

Relation: supermarket

Instances: 4627

Attributes: 217

[list of attributes omitted]

=== Associator model (full training set) ===

Apriori

=======

Minimum support: 0.15 (694 instances)

Minimum metric <confidence>: 0.9

Number of cycles performed: 17

Generated sets of large itemsets:

Size of set of large itemsets L(1): 44

Large Itemsets L(1):

department1=t 1047

bread and cake=t 3330

baking needs=t 2795

juice-sat-cord-ms=t 2463

tea=t 896

biscuits=t 2605

canned fish-meat=t 941

canned fruit=t 1283

canned vegetables=t 1577

breakfast food=t 1862

cigs-tobacco pkts=t 699

cleaners-polishers=t 1262

coffee=t 1094

sauces-gravy-pkle=t 2201

confectionary=t 1690

puddings-deserts=t 788

frozen foods=t 2717

jams-spreads=t 1278

pet foods=t 1867

laundry needs=t 1563

party snack foods=t 2330

tissues-paper prd=t 2247

wrapping=t 1336

soft drinks=t 1888

deodorants-soap=t 1078

haircare=t 846

dental needs=t 1064

cheese=t 1879

milk-cream=t 2939

margarine=t 2288

small goods=t 1116

dairy foods=t 1669

beef=t 1739

poultry=t 739

fruit=t 2962

potatoes=t 734

vegetables=t 2961

stationary=t 1457

prepared meals=t 1271

department122=t 1112

small goods2=t 962

department137=t 1854

total=low 2948

total=high 1679

Size of set of large itemsets L(2): 380

Large Itemsets L(2):

department1=t bread and cake=t 794

department1=t milk-cream=t 699

department1=t fruit=t 731

bread and cake=t baking needs=t 2191

bread and cake=t juice-sat-cord-ms=t 1869

bread and cake=t tea=t 709

bread and cake=t biscuits=t 2083

bread and cake=t canned fish-meat=t 754

bread and cake=t canned fruit=t 1040

bread and cake=t canned vegetables=t 1256

bread and cake=t breakfast food=t 1441

bread and cake=t cleaners-polishers=t 980

bread and cake=t coffee=t 837

bread and cake=t sauces-gravy-pkle=t 1710

bread and cake=t confectionary=t 1288

bread and cake=t frozen foods=t 2129

bread and cake=t jams-spreads=t 1027

bread and cake=t pet foods=t 1490

bread and cake=t laundry needs=t 1234

bread and cake=t party snack foods=t 1808

bread and cake=t tissues-paper prd=t 1776

bread and cake=t wrapping=t 1049

bread and cake=t soft drinks=t 1429

bread and cake=t deodorants-soap=t 843

bread and cake=t dental needs=t 829

bread and cake=t cheese=t 1492

bread and cake=t milk-cream=t 2337

bread and cake=t margarine=t 1831

bread and cake=t small goods=t 932

bread and cake=t dairy foods=t 1320

bread and cake=t beef=t 1374

bread and cake=t fruit=t 2325

bread and cake=t vegetables=t 2298

bread and cake=t stationary=t 1123

bread and cake=t prepared meals=t 1014

bread and cake=t department122=t 831

bread and cake=t small goods2=t 753

bread and cake=t department137=t 1469

bread and cake=t total=low 1917

bread and cake=t total=high 1413

baking needs=t juice-sat-cord-ms=t 1619

baking needs=t biscuits=t 1764

baking needs=t canned fruit=t 909

baking needs=t canned vegetables=t 1138

baking needs=t breakfast food=t 1335

baking needs=t cleaners-polishers=t 900

baking needs=t coffee=t 789

baking needs=t sauces-gravy-pkle=t 1521

baking needs=t confectionary=t 1097

baking needs=t frozen foods=t 1835

baking needs=t jams-spreads=t 936

baking needs=t pet foods=t 1259

baking needs=t laundry needs=t 1098

baking needs=t party snack foods=t 1530

baking needs=t tissues-paper prd=t 1573

baking needs=t wrapping=t 975

baking needs=t soft drinks=t 1197

baking needs=t deodorants-soap=t 757

baking needs=t dental needs=t 764

baking needs=t cheese=t 1315

baking needs=t milk-cream=t 1907

baking needs=t margarine=t 1645

baking needs=t small goods=t 779

baking needs=t dairy foods=t 1125

baking needs=t beef=t 1155

baking needs=t fruit=t 1900

baking needs=t vegetables=t 1949

baking needs=t stationary=t 921

baking needs=t prepared meals=t 899

baking needs=t department122=t 713

baking needs=t department137=t 1210

baking needs=t total=low 1515

baking needs=t total=high 1280

juice-sat-cord-ms=t biscuits=t 1542

juice-sat-cord-ms=t canned fruit=t 784

juice-sat-cord-ms=t canned vegetables=t 969

juice-sat-cord-ms=t breakfast food=t 1163

juice-sat-cord-ms=t cleaners-polishers=t 749

juice-sat-cord-ms=t sauces-gravy-pkle=t 1324

juice-sat-cord-ms=t confectionary=t 1000

juice-sat-cord-ms=t frozen foods=t 1619

juice-sat-cord-ms=t jams-spreads=t 770

juice-sat-cord-ms=t pet foods=t 1100

juice-sat-cord-ms=t laundry needs=t 977

juice-sat-cord-ms=t party snack foods=t 1482

juice-sat-cord-ms=t tissues-paper prd=t 1354

juice-sat-cord-ms=t wrapping=t 827

juice-sat-cord-ms=t soft drinks=t 1146

juice-sat-cord-ms=t cheese=t 1148

juice-sat-cord-ms=t milk-cream=t 1637

juice-sat-cord-ms=t margarine=t 1362

juice-sat-cord-ms=t dairy foods=t 1010

juice-sat-cord-ms=t beef=t 976

juice-sat-cord-ms=t fruit=t 1672

juice-sat-cord-ms=t vegetables=t 1658

juice-sat-cord-ms=t stationary=t 777

juice-sat-cord-ms=t prepared meals=t 820

juice-sat-cord-ms=t department137=t 1050

juice-sat-cord-ms=t total=low 1345

juice-sat-cord-ms=t total=high 1118

biscuits=t canned fruit=t 882

biscuits=t canned vegetables=t 1097

biscuits=t breakfast food=t 1237

biscuits=t cleaners-polishers=t 818

biscuits=t coffee=t 719

biscuits=t sauces-gravy-pkle=t 1406

biscuits=t confectionary=t 1133

biscuits=t frozen foods=t 1810

biscuits=t jams-spreads=t 887

biscuits=t pet foods=t 1185

biscuits=t laundry needs=t 1023

biscuits=t party snack foods=t 1592

biscuits=t tissues-paper prd=t 1453

biscuits=t wrapping=t 912

biscuits=t soft drinks=t 1193

biscuits=t deodorants-soap=t 710

biscuits=t dental needs=t 722

biscuits=t cheese=t 1227

biscuits=t milk-cream=t 1767

biscuits=t margarine=t 1493

biscuits=t small goods=t 746

biscuits=t dairy foods=t 1099

biscuits=t beef=t 1065

biscuits=t fruit=t 1837

biscuits=t vegetables=t 1764

biscuits=t stationary=t 896

biscuits=t prepared meals=t 841

biscuits=t department122=t 703

biscuits=t department137=t 1156

biscuits=t total=low 1377

biscuits=t total=high 1228

canned fruit=t sauces-gravy-pkle=t 734

canned fruit=t frozen foods=t 922

canned fruit=t party snack foods=t 724

canned fruit=t tissues-paper prd=t 738

canned fruit=t milk-cream=t 886

canned fruit=t margarine=t 782

canned fruit=t fruit=t 936

canned fruit=t vegetables=t 908

canned vegetables=t breakfast food=t 792

canned vegetables=t sauces-gravy-pkle=t 976

canned vegetables=t frozen foods=t 1113

canned vegetables=t pet foods=t 785

canned vegetables=t party snack foods=t 915

canned vegetables=t tissues-paper prd=t 967

canned vegetables=t cheese=t 820

canned vegetables=t milk-cream=t 1069

canned vegetables=t margarine=t 985

canned vegetables=t beef=t 710

canned vegetables=t fruit=t 1126

canned vegetables=t vegetables=t 1158

canned vegetables=t department137=t 708

canned vegetables=t total=low 753

canned vegetables=t total=high 824

breakfast food=t sauces-gravy-pkle=t 1033

breakfast food=t confectionary=t 714

breakfast food=t frozen foods=t 1263

breakfast food=t pet foods=t 866

breakfast food=t laundry needs=t 802

breakfast food=t party snack foods=t 1094

breakfast food=t tissues-paper prd=t 1096

breakfast food=t soft drinks=t 800

breakfast food=t cheese=t 913

breakfast food=t milk-cream=t 1259

breakfast food=t margarine=t 1102

breakfast food=t dairy foods=t 797

breakfast food=t beef=t 790

breakfast food=t fruit=t 1305

breakfast food=t vegetables=t 1277

breakfast food=t prepared meals=t 711

breakfast food=t department137=t 831

breakfast food=t total=low 929

breakfast food=t total=high 933

cleaners-polishers=t sauces-gravy-pkle=t 717

cleaners-polishers=t frozen foods=t 841

cleaners-polishers=t tissues-paper prd=t 785

cleaners-polishers=t milk-cream=t 844

cleaners-polishers=t margarine=t 761

cleaners-polishers=t fruit=t 846

cleaners-polishers=t vegetables=t 879

coffee=t frozen foods=t 709

coffee=t milk-cream=t 735

coffee=t fruit=t 712

coffee=t vegetables=t 747

sauces-gravy-pkle=t confectionary=t 859

sauces-gravy-pkle=t frozen foods=t 1497

sauces-gravy-pkle=t jams-spreads=t 755

sauces-gravy-pkle=t pet foods=t 1028

sauces-gravy-pkle=t laundry needs=t 930

sauces-gravy-pkle=t party snack foods=t 1312

sauces-gravy-pkle=t tissues-paper prd=t 1290

sauces-gravy-pkle=t wrapping=t 808

sauces-gravy-pkle=t soft drinks=t 991

sauces-gravy-pkle=t cheese=t 1081

sauces-gravy-pkle=t milk-cream=t 1487

sauces-gravy-pkle=t margarine=t 1261

sauces-gravy-pkle=t dairy foods=t 921

sauces-gravy-pkle=t beef=t 950

sauces-gravy-pkle=t fruit=t 1490

sauces-gravy-pkle=t vegetables=t 1558

sauces-gravy-pkle=t stationary=t 743

sauces-gravy-pkle=t prepared meals=t 811

sauces-gravy-pkle=t department137=t 964

sauces-gravy-pkle=t total=low 1075

sauces-gravy-pkle=t total=high 1126

confectionary=t frozen foods=t 1084

confectionary=t pet foods=t 751

confectionary=t party snack foods=t 1023

confectionary=t tissues-paper prd=t 875

confectionary=t soft drinks=t 826

confectionary=t cheese=t 748

confectionary=t milk-cream=t 1153

confectionary=t margarine=t 913

confectionary=t fruit=t 1150

confectionary=t vegetables=t 1102

confectionary=t department137=t 737

confectionary=t total=low 916

confectionary=t total=high 774

frozen foods=t jams-spreads=t 869

frozen foods=t pet foods=t 1239

frozen foods=t laundry needs=t 1062

frozen foods=t party snack foods=t 1582

frozen foods=t tissues-paper prd=t 1505

frozen foods=t wrapping=t 922

frozen foods=t soft drinks=t 1265

frozen foods=t deodorants-soap=t 735

frozen foods=t dental needs=t 739

frozen foods=t cheese=t 1241

frozen foods=t milk-cream=t 1826

frozen foods=t margarine=t 1531

frozen foods=t small goods=t 763

frozen foods=t dairy foods=t 1106

frozen foods=t beef=t 1195

frozen foods=t fruit=t 1861

frozen foods=t vegetables=t 1882

frozen foods=t stationary=t 891

frozen foods=t prepared meals=t 930

frozen foods=t department122=t 694

frozen foods=t department137=t 1190

frozen foods=t total=low 1444

frozen foods=t total=high 1273

jams-spreads=t party snack foods=t 750

jams-spreads=t tissues-paper prd=t 775

jams-spreads=t milk-cream=t 871

jams-spreads=t margarine=t 829

jams-spreads=t fruit=t 894

jams-spreads=t vegetables=t 888

pet foods=t laundry needs=t 798

pet foods=t party snack foods=t 1084

pet foods=t tissues-paper prd=t 1120

pet foods=t soft drinks=t 837

pet foods=t cheese=t 865

pet foods=t milk-cream=t 1285

pet foods=t margarine=t 1075

pet foods=t dairy foods=t 782

pet foods=t beef=t 864

pet foods=t fruit=t 1300

pet foods=t vegetables=t 1330

pet foods=t department137=t 836

pet foods=t total=low 909

pet foods=t total=high 958

laundry needs=t party snack foods=t 924

laundry needs=t tissues-paper prd=t 1026

laundry needs=t soft drinks=t 724

laundry needs=t cheese=t 770

laundry needs=t milk-cream=t 1061

laundry needs=t margarine=t 989

laundry needs=t fruit=t 1075

laundry needs=t vegetables=t 1068

laundry needs=t department137=t 712

laundry needs=t total=low 725

laundry needs=t total=high 838

party snack foods=t tissues-paper prd=t 1300

party snack foods=t wrapping=t 831

party snack foods=t soft drinks=t 1162

party snack foods=t cheese=t 1110

party snack foods=t milk-cream=t 1541

party snack foods=t margarine=t 1235

party snack foods=t dairy foods=t 1043

party snack foods=t beef=t 918

party snack foods=t fruit=t 1592

party snack foods=t vegetables=t 1559

party snack foods=t stationary=t 801

party snack foods=t prepared meals=t 819

party snack foods=t department137=t 1052

party snack foods=t total=low 1210

party snack foods=t total=high 1120

tissues-paper prd=t wrapping=t 871

tissues-paper prd=t soft drinks=t 1012

tissues-paper prd=t deodorants-soap=t 713

tissues-paper prd=t cheese=t 1107

tissues-paper prd=t milk-cream=t 1514

tissues-paper prd=t margarine=t 1349

tissues-paper prd=t dairy foods=t 912

tissues-paper prd=t beef=t 974

tissues-paper prd=t fruit=t 1567

tissues-paper prd=t vegetables=t 1559

tissues-paper prd=t stationary=t 800

tissues-paper prd=t prepared meals=t 778

tissues-paper prd=t department137=t 965

tissues-paper prd=t total=low 1091

tissues-paper prd=t total=high 1156

wrapping=t milk-cream=t 906

wrapping=t margarine=t 828

wrapping=t fruit=t 929

wrapping=t vegetables=t 945

wrapping=t total=high 740

soft drinks=t cheese=t 829

soft drinks=t milk-cream=t 1274

soft drinks=t margarine=t 999

soft drinks=t dairy foods=t 736

soft drinks=t beef=t 729

soft drinks=t fruit=t 1269

soft drinks=t vegetables=t 1222

soft drinks=t department137=t 857

soft drinks=t total=low 1008

soft drinks=t total=high 880

deodorants-soap=t milk-cream=t 714

deodorants-soap=t fruit=t 736

deodorants-soap=t vegetables=t 758

dental needs=t fruit=t 713

dental needs=t vegetables=t 714

cheese=t milk-cream=t 1290

cheese=t margarine=t 1169

cheese=t dairy foods=t 826

cheese=t beef=t 811

cheese=t fruit=t 1313

cheese=t vegetables=t 1341

cheese=t department137=t 876

cheese=t total=low 929

cheese=t total=high 950

milk-cream=t margarine=t 1549

milk-cream=t small goods=t 775

milk-cream=t dairy foods=t 1141

milk-cream=t beef=t 1168

milk-cream=t fruit=t 2038

milk-cream=t vegetables=t 2025

milk-cream=t stationary=t 989

milk-cream=t prepared meals=t 838

milk-cream=t department122=t 767

milk-cream=t department137=t 1277

milk-cream=t total=low 1722

milk-cream=t total=high 1217

margarine=t dairy foods=t 939

margarine=t beef=t 985

margarine=t fruit=t 1538

margarine=t vegetables=t 1587

margarine=t stationary=t 751

margarine=t prepared meals=t 758

margarine=t department137=t 1016

margarine=t total=low 1199

margarine=t total=high 1089

small goods=t fruit=t 793

small goods=t vegetables=t 822

dairy foods=t fruit=t 1207

dairy foods=t vegetables=t 1176

dairy foods=t department137=t 755

dairy foods=t total=low 861

dairy foods=t total=high 808

beef=t fruit=t 1186

beef=t vegetables=t 1288

beef=t department137=t 764

beef=t total=low 889

beef=t total=high 850

fruit=t vegetables=t 2207

fruit=t stationary=t 1002

fruit=t prepared meals=t 856

fruit=t department122=t 783

fruit=t department137=t 1274

fruit=t total=low 1719

fruit=t total=high 1243

vegetables=t stationary=t 966

vegetables=t prepared meals=t 872

vegetables=t department122=t 778

vegetables=t department137=t 1296

vegetables=t total=low 1691

vegetables=t total=high 1270

stationary=t total=low 832

department137=t total=low 1034

department137=t total=high 820

Size of set of large itemsets L(3): 910

Large Itemsets L(3):

bread and cake=t baking needs=t juice-sat-cord-ms=t 1291

bread and cake=t baking needs=t biscuits=t 1456

bread and cake=t baking needs=t canned fruit=t 762

bread and cake=t baking needs=t canned vegetables=t 939

bread and cake=t baking needs=t breakfast food=t 1074

bread and cake=t baking needs=t cleaners-polishers=t 726

bread and cake=t baking needs=t sauces-gravy-pkle=t 1223

bread and cake=t baking needs=t confectionary=t 880

bread and cake=t baking needs=t frozen foods=t 1485

bread and cake=t baking needs=t jams-spreads=t 765

bread and cake=t baking needs=t pet foods=t 1044

bread and cake=t baking needs=t laundry needs=t 903

bread and cake=t baking needs=t party snack foods=t 1254

bread and cake=t baking needs=t tissues-paper prd=t 1294

bread and cake=t baking needs=t wrapping=t 792

bread and cake=t baking needs=t soft drinks=t 953

bread and cake=t baking needs=t cheese=t 1073

bread and cake=t baking needs=t milk-cream=t 1580

bread and cake=t baking needs=t margarine=t 1358

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bread and cake=t baking needs=t total=high 1117

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bread and cake=t biscuits=t pet foods=t 999

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bread and cake=t frozen foods=t total=low 1012

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bread and cake=t jams-spreads=t vegetables=t 744

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bread and cake=t laundry needs=t margarine=t 794

bread and cake=t laundry needs=t fruit=t 899

bread and cake=t laundry needs=t vegetables=t 889

bread and cake=t laundry needs=t total=high 720

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bread and cake=t party snack foods=t total=low 829

bread and cake=t party snack foods=t total=high 979

bread and cake=t tissues-paper prd=t wrapping=t 713

bread and cake=t tissues-paper prd=t soft drinks=t 819

bread and cake=t tissues-paper prd=t cheese=t 919

bread and cake=t tissues-paper prd=t milk-cream=t 1275

bread and cake=t tissues-paper prd=t margarine=t 1113

bread and cake=t tissues-paper prd=t dairy foods=t 760

bread and cake=t tissues-paper prd=t beef=t 824

bread and cake=t tissues-paper prd=t fruit=t 1297

bread and cake=t tissues-paper prd=t vegetables=t 1293

bread and cake=t tissues-paper prd=t department137=t 810

bread and cake=t tissues-paper prd=t total=low 772

bread and cake=t tissues-paper prd=t total=high 1004

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bread and cake=t wrapping=t fruit=t 766

bread and cake=t wrapping=t vegetables=t 780

bread and cake=t soft drinks=t milk-cream=t 1035

bread and cake=t soft drinks=t margarine=t 806

bread and cake=t soft drinks=t fruit=t 1028

bread and cake=t soft drinks=t vegetables=t 975

bread and cake=t soft drinks=t total=high 757

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bread and cake=t cheese=t margarine=t 965

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bread and cake=t cheese=t vegetables=t 1110

bread and cake=t cheese=t department137=t 716

bread and cake=t cheese=t total=high 834

bread and cake=t milk-cream=t margarine=t 1299

bread and cake=t milk-cream=t dairy foods=t 942

bread and cake=t milk-cream=t beef=t 979

bread and cake=t milk-cream=t fruit=t 1684

bread and cake=t milk-cream=t vegetables=t 1658

bread and cake=t milk-cream=t stationary=t 805

bread and cake=t milk-cream=t prepared meals=t 703

bread and cake=t milk-cream=t department137=t 1074

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bread and cake=t milk-cream=t total=high 1071

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bread and cake=t margarine=t beef=t 808

bread and cake=t margarine=t fruit=t 1301

bread and cake=t margarine=t vegetables=t 1322

bread and cake=t margarine=t department137=t 845

bread and cake=t margarine=t total=low 885

bread and cake=t margarine=t total=high 946

bread and cake=t small goods=t vegetables=t 700

bread and cake=t dairy foods=t fruit=t 988

bread and cake=t dairy foods=t vegetables=t 966

bread and cake=t dairy foods=t total=high 713

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bread and cake=t beef=t total=high 750

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bread and cake=t fruit=t prepared meals=t 723

bread and cake=t fruit=t department137=t 1062

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bread and cake=t fruit=t total=high 1104

bread and cake=t vegetables=t stationary=t 788

bread and cake=t vegetables=t prepared meals=t 724

bread and cake=t vegetables=t department137=t 1062

bread and cake=t vegetables=t total=low 1188

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bread and cake=t department137=t total=low 748

bread and cake=t department137=t total=high 721

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baking needs=t biscuits=t confectionary=t 794

baking needs=t biscuits=t frozen foods=t 1316

baking needs=t biscuits=t pet foods=t 861

baking needs=t biscuits=t laundry needs=t 758

baking needs=t biscuits=t party snack foods=t 1116

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baking needs=t biscuits=t soft drinks=t 826

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baking needs=t biscuits=t margarine=t 1128

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baking needs=t biscuits=t total=high 986

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baking needs=t canned vegetables=t party snack foods=t 695

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baking needs=t sauces-gravy-pkle=t pet foods=t 752

baking needs=t sauces-gravy-pkle=t laundry needs=t 697

baking needs=t sauces-gravy-pkle=t party snack foods=t 954

baking needs=t sauces-gravy-pkle=t tissues-paper prd=t 967

baking needs=t sauces-gravy-pkle=t soft drinks=t 699

baking needs=t sauces-gravy-pkle=t cheese=t 805

baking needs=t sauces-gravy-pkle=t milk-cream=t 1057

baking needs=t sauces-gravy-pkle=t margarine=t 956

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baking needs=t sauces-gravy-pkle=t vegetables=t 1117

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baking needs=t frozen foods=t party snack foods=t 1112

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baking needs=t frozen foods=t fruit=t 1281

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baking needs=t frozen foods=t total=high 1018

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baking needs=t pet foods=t fruit=t 897

baking needs=t pet foods=t vegetables=t 945

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baking needs=t party snack foods=t dairy foods=t 730

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baking needs=t tissues-paper prd=t beef=t 730

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baking needs=t tissues-paper prd=t vegetables=t 1139

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baking needs=t soft drinks=t vegetables=t 833

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baking needs=t milk-cream=t vegetables=t 1392

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baking needs=t margarine=t vegetables=t 1181

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baking needs=t margarine=t total=high 898

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baking needs=t dairy foods=t vegetables=t 829

baking needs=t beef=t fruit=t 830

baking needs=t beef=t vegetables=t 913

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juice-sat-cord-ms=t frozen foods=t total=high 891

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juice-sat-cord-ms=t pet foods=t vegetables=t 786

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juice-sat-cord-ms=t dairy foods=t vegetables=t 735

juice-sat-cord-ms=t beef=t fruit=t 717

juice-sat-cord-ms=t beef=t vegetables=t 757

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juice-sat-cord-ms=t fruit=t total=high 855

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juice-sat-cord-ms=t vegetables=t total=high 862

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biscuits=t canned vegetables=t vegetables=t 816

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biscuits=t confectionary=t margarine=t 695

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biscuits=t frozen foods=t total=low 804

biscuits=t frozen foods=t total=high 1006

biscuits=t pet foods=t party snack foods=t 795

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biscuits=t laundry needs=t party snack foods=t 703

biscuits=t laundry needs=t tissues-paper prd=t 710

biscuits=t laundry needs=t milk-cream=t 709

biscuits=t laundry needs=t margarine=t 696

biscuits=t laundry needs=t fruit=t 723

biscuits=t laundry needs=t vegetables=t 717

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biscuits=t party snack foods=t vegetables=t 1109

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biscuits=t party snack foods=t total=high 892

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biscuits=t tissues-paper prd=t milk-cream=t 997

biscuits=t tissues-paper prd=t margarine=t 944

biscuits=t tissues-paper prd=t fruit=t 1070

biscuits=t tissues-paper prd=t vegetables=t 1041

biscuits=t tissues-paper prd=t total=high 891

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biscuits=t soft drinks=t margarine=t 718

biscuits=t soft drinks=t fruit=t 854

biscuits=t soft drinks=t vegetables=t 806

biscuits=t cheese=t milk-cream=t 861

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biscuits=t cheese=t fruit=t 906

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biscuits=t cheese=t total=high 738

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biscuits=t milk-cream=t dairy foods=t 776

biscuits=t milk-cream=t beef=t 736

biscuits=t milk-cream=t fruit=t 1299

biscuits=t milk-cream=t vegetables=t 1236

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biscuits=t fruit=t department137=t 842

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canned vegetables=t frozen foods=t tissues-paper prd=t 716

canned vegetables=t frozen foods=t milk-cream=t 770

canned vegetables=t frozen foods=t margarine=t 744

canned vegetables=t frozen foods=t fruit=t 811

canned vegetables=t frozen foods=t vegetables=t 843

canned vegetables=t tissues-paper prd=t fruit=t 713

canned vegetables=t tissues-paper prd=t vegetables=t 727

canned vegetables=t milk-cream=t fruit=t 807

canned vegetables=t milk-cream=t vegetables=t 808

canned vegetables=t margarine=t fruit=t 715

canned vegetables=t margarine=t vegetables=t 738

canned vegetables=t fruit=t vegetables=t 918

breakfast food=t sauces-gravy-pkle=t frozen foods=t 766

breakfast food=t sauces-gravy-pkle=t milk-cream=t 697

breakfast food=t sauces-gravy-pkle=t fruit=t 744

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breakfast food=t frozen foods=t party snack foods=t 812

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breakfast food=t frozen foods=t vegetables=t 913

breakfast food=t frozen foods=t total=high 735

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breakfast food=t party snack foods=t fruit=t 793

breakfast food=t party snack foods=t vegetables=t 770

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breakfast food=t tissues-paper prd=t margarine=t 716

breakfast food=t tissues-paper prd=t fruit=t 797

breakfast food=t tissues-paper prd=t vegetables=t 790

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breakfast food=t milk-cream=t fruit=t 940

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sauces-gravy-pkle=t frozen foods=t margarine=t 911

sauces-gravy-pkle=t frozen foods=t beef=t 719

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sauces-gravy-pkle=t frozen foods=t vegetables=t 1103

sauces-gravy-pkle=t frozen foods=t department137=t 700

sauces-gravy-pkle=t frozen foods=t total=high 904

sauces-gravy-pkle=t pet foods=t tissues-paper prd=t 711

sauces-gravy-pkle=t pet foods=t milk-cream=t 738

sauces-gravy-pkle=t pet foods=t fruit=t 735

sauces-gravy-pkle=t pet foods=t vegetables=t 782

sauces-gravy-pkle=t party snack foods=t tissues-paper prd=t 839

sauces-gravy-pkle=t party snack foods=t cheese=t 719

sauces-gravy-pkle=t party snack foods=t milk-cream=t 903

sauces-gravy-pkle=t party snack foods=t margarine=t 782

sauces-gravy-pkle=t party snack foods=t fruit=t 922

sauces-gravy-pkle=t party snack foods=t vegetables=t 943

sauces-gravy-pkle=t party snack foods=t total=high 815

sauces-gravy-pkle=t tissues-paper prd=t cheese=t 707

sauces-gravy-pkle=t tissues-paper prd=t milk-cream=t 883

sauces-gravy-pkle=t tissues-paper prd=t margarine=t 817

sauces-gravy-pkle=t tissues-paper prd=t fruit=t 916

sauces-gravy-pkle=t tissues-paper prd=t vegetables=t 937

sauces-gravy-pkle=t tissues-paper prd=t total=high 830

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sauces-gravy-pkle=t soft drinks=t vegetables=t 706

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sauces-gravy-pkle=t milk-cream=t vegetables=t 1095

sauces-gravy-pkle=t milk-cream=t department137=t 703

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sauces-gravy-pkle=t margarine=t total=high 767

sauces-gravy-pkle=t beef=t vegetables=t 728

sauces-gravy-pkle=t fruit=t vegetables=t 1187

sauces-gravy-pkle=t fruit=t total=high 848

sauces-gravy-pkle=t vegetables=t department137=t 720

sauces-gravy-pkle=t vegetables=t total=high 883

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confectionary=t party snack foods=t milk-cream=t 721

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confectionary=t milk-cream=t fruit=t 823

confectionary=t milk-cream=t vegetables=t 789

confectionary=t fruit=t vegetables=t 848

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frozen foods=t pet foods=t tissues-paper prd=t 798

frozen foods=t pet foods=t milk-cream=t 887

frozen foods=t pet foods=t margarine=t 757

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frozen foods=t pet foods=t vegetables=t 938

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frozen foods=t laundry needs=t margarine=t 703

frozen foods=t laundry needs=t fruit=t 757

frozen foods=t laundry needs=t vegetables=t 768

frozen foods=t party snack foods=t tissues-paper prd=t 967

frozen foods=t party snack foods=t soft drinks=t 826

frozen foods=t party snack foods=t cheese=t 802

frozen foods=t party snack foods=t milk-cream=t 1075

frozen foods=t party snack foods=t margarine=t 919

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frozen foods=t party snack foods=t fruit=t 1115

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frozen foods=t tissues-paper prd=t cheese=t 798

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frozen foods=t tissues-paper prd=t total=high 912

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frozen foods=t soft drinks=t vegetables=t 870

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frozen foods=t fruit=t vegetables=t 1451

frozen foods=t fruit=t department137=t 864

frozen foods=t fruit=t total=low 892

frozen foods=t fruit=t total=high 969

frozen foods=t vegetables=t department137=t 863

frozen foods=t vegetables=t total=low 883

frozen foods=t vegetables=t total=high 999

jams-spreads=t fruit=t vegetables=t 699

pet foods=t party snack foods=t tissues-paper prd=t 718

pet foods=t party snack foods=t milk-cream=t 766

pet foods=t party snack foods=t fruit=t 787

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pet foods=t tissues-paper prd=t milk-cream=t 785

pet foods=t tissues-paper prd=t margarine=t 722

pet foods=t tissues-paper prd=t fruit=t 805

pet foods=t tissues-paper prd=t vegetables=t 828

pet foods=t tissues-paper prd=t total=high 710

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pet foods=t milk-cream=t fruit=t 945

pet foods=t milk-cream=t vegetables=t 954

pet foods=t milk-cream=t total=high 731

pet foods=t margarine=t fruit=t 759

pet foods=t margarine=t vegetables=t 803

pet foods=t fruit=t vegetables=t 1038

pet foods=t fruit=t total=high 738

pet foods=t vegetables=t total=high 761

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laundry needs=t tissues-paper prd=t margarine=t 701

laundry needs=t tissues-paper prd=t fruit=t 728

laundry needs=t tissues-paper prd=t vegetables=t 736

laundry needs=t milk-cream=t fruit=t 775

laundry needs=t milk-cream=t vegetables=t 754

laundry needs=t margarine=t vegetables=t 712

laundry needs=t fruit=t vegetables=t 841

party snack foods=t tissues-paper prd=t cheese=t 712

party snack foods=t tissues-paper prd=t milk-cream=t 880

party snack foods=t tissues-paper prd=t margarine=t 811

party snack foods=t tissues-paper prd=t fruit=t 933

party snack foods=t tissues-paper prd=t vegetables=t 929

party snack foods=t tissues-paper prd=t total=high 799

party snack foods=t soft drinks=t milk-cream=t 788

party snack foods=t soft drinks=t fruit=t 802

party snack foods=t soft drinks=t vegetables=t 763

party snack foods=t cheese=t milk-cream=t 765

party snack foods=t cheese=t margarine=t 713

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party snack foods=t cheese=t vegetables=t 799

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party snack foods=t milk-cream=t fruit=t 1115

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party snack foods=t fruit=t total=low 738

party snack foods=t fruit=t total=high 854

party snack foods=t vegetables=t department137=t 747

party snack foods=t vegetables=t total=low 706

party snack foods=t vegetables=t total=high 853

tissues-paper prd=t soft drinks=t milk-cream=t 720

tissues-paper prd=t soft drinks=t fruit=t 714

tissues-paper prd=t soft drinks=t vegetables=t 704

tissues-paper prd=t cheese=t milk-cream=t 767

tissues-paper prd=t cheese=t margarine=t 760

tissues-paper prd=t cheese=t fruit=t 810

tissues-paper prd=t cheese=t vegetables=t 819

tissues-paper prd=t cheese=t total=high 702

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tissues-paper prd=t milk-cream=t vegetables=t 1099

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tissues-paper prd=t margarine=t vegetables=t 970

tissues-paper prd=t margarine=t total=high 816

tissues-paper prd=t beef=t fruit=t 716

tissues-paper prd=t beef=t vegetables=t 762

tissues-paper prd=t fruit=t vegetables=t 1224

tissues-paper prd=t fruit=t department137=t 709

tissues-paper prd=t fruit=t total=high 878

tissues-paper prd=t vegetables=t department137=t 715

tissues-paper prd=t vegetables=t total=high 907

wrapping=t fruit=t vegetables=t 736

soft drinks=t milk-cream=t margarine=t 697

soft drinks=t milk-cream=t fruit=t 895

soft drinks=t milk-cream=t vegetables=t 868

soft drinks=t fruit=t vegetables=t 942

cheese=t milk-cream=t margarine=t 794

cheese=t milk-cream=t fruit=t 946

cheese=t milk-cream=t vegetables=t 955

cheese=t milk-cream=t total=high 696

cheese=t margarine=t fruit=t 823

cheese=t margarine=t vegetables=t 852

cheese=t margarine=t total=high 696

cheese=t fruit=t vegetables=t 1040

cheese=t fruit=t total=high 730

cheese=t vegetables=t total=high 757

milk-cream=t margarine=t fruit=t 1097

milk-cream=t margarine=t vegetables=t 1111

milk-cream=t margarine=t department137=t 729

milk-cream=t margarine=t total=low 740

milk-cream=t margarine=t total=high 809

milk-cream=t dairy foods=t fruit=t 861

milk-cream=t dairy foods=t vegetables=t 838

milk-cream=t beef=t fruit=t 839

milk-cream=t beef=t vegetables=t 914

milk-cream=t fruit=t vegetables=t 1571

milk-cream=t fruit=t stationary=t 706

milk-cream=t fruit=t department137=t 919

milk-cream=t fruit=t total=low 1087

milk-cream=t fruit=t total=high 951

milk-cream=t vegetables=t department137=t 914

milk-cream=t vegetables=t total=low 1072

milk-cream=t vegetables=t total=high 953

margarine=t dairy foods=t vegetables=t 695

margarine=t beef=t fruit=t 694

margarine=t beef=t vegetables=t 756

margarine=t fruit=t vegetables=t 1215

margarine=t fruit=t department137=t 713

margarine=t fruit=t total=low 720

margarine=t fruit=t total=high 818

margarine=t vegetables=t department137=t 753

margarine=t vegetables=t total=low 725

margarine=t vegetables=t total=high 862

dairy foods=t fruit=t vegetables=t 947

beef=t fruit=t vegetables=t 986

beef=t vegetables=t total=high 703

fruit=t vegetables=t stationary=t 757

fruit=t vegetables=t department137=t 998

fruit=t vegetables=t total=low 1157

fruit=t vegetables=t total=high 1050

Size of set of large itemsets L(4): 633

Large Itemsets L(4):

bread and cake=t baking needs=t juice-sat-cord-ms=t biscuits=t 916

bread and cake=t baking needs=t juice-sat-cord-ms=t breakfast food=t 704

bread and cake=t baking needs=t juice-sat-cord-ms=t sauces-gravy-pkle=t 771

bread and cake=t baking needs=t juice-sat-cord-ms=t frozen foods=t 942

bread and cake=t baking needs=t juice-sat-cord-ms=t party snack foods=t 855

bread and cake=t baking needs=t juice-sat-cord-ms=t tissues-paper prd=t 820

bread and cake=t baking needs=t juice-sat-cord-ms=t cheese=t 695

bread and cake=t baking needs=t juice-sat-cord-ms=t milk-cream=t 935

bread and cake=t baking needs=t juice-sat-cord-ms=t margarine=t 846

bread and cake=t baking needs=t juice-sat-cord-ms=t fruit=t 944

bread and cake=t baking needs=t juice-sat-cord-ms=t vegetables=t 946

bread and cake=t baking needs=t juice-sat-cord-ms=t total=high 763

bread and cake=t baking needs=t biscuits=t canned vegetables=t 698

bread and cake=t baking needs=t biscuits=t breakfast food=t 784

bread and cake=t baking needs=t biscuits=t sauces-gravy-pkle=t 862

bread and cake=t baking needs=t biscuits=t frozen foods=t 1113

bread and cake=t baking needs=t biscuits=t pet foods=t 737

bread and cake=t baking needs=t biscuits=t party snack foods=t 948

bread and cake=t baking needs=t biscuits=t tissues-paper prd=t 915

bread and cake=t baking needs=t biscuits=t cheese=t 768

bread and cake=t baking needs=t biscuits=t milk-cream=t 1061

bread and cake=t baking needs=t biscuits=t margarine=t 957

bread and cake=t baking needs=t biscuits=t fruit=t 1095

bread and cake=t baking needs=t biscuits=t vegetables=t 1082

bread and cake=t baking needs=t biscuits=t department137=t 700

bread and cake=t baking needs=t biscuits=t total=high 878

bread and cake=t baking needs=t canned vegetables=t frozen foods=t 703

bread and cake=t baking needs=t canned vegetables=t fruit=t 709

bread and cake=t baking needs=t canned vegetables=t vegetables=t 735

bread and cake=t baking needs=t breakfast food=t frozen foods=t 793

bread and cake=t baking needs=t breakfast food=t tissues-paper prd=t 705

bread and cake=t baking needs=t breakfast food=t milk-cream=t 773

bread and cake=t baking needs=t breakfast food=t margarine=t 726

bread and cake=t baking needs=t breakfast food=t fruit=t 802

bread and cake=t baking needs=t breakfast food=t vegetables=t 796

bread and cake=t baking needs=t sauces-gravy-pkle=t frozen foods=t 901

bread and cake=t baking needs=t sauces-gravy-pkle=t party snack foods=t 797

bread and cake=t baking needs=t sauces-gravy-pkle=t tissues-paper prd=t 806

bread and cake=t baking needs=t sauces-gravy-pkle=t milk-cream=t 885

bread and cake=t baking needs=t sauces-gravy-pkle=t margarine=t 798

bread and cake=t baking needs=t sauces-gravy-pkle=t fruit=t 884

bread and cake=t baking needs=t sauces-gravy-pkle=t vegetables=t 933

bread and cake=t baking needs=t sauces-gravy-pkle=t total=high 792

bread and cake=t baking needs=t frozen foods=t pet foods=t 753

bread and cake=t baking needs=t frozen foods=t party snack foods=t 931

bread and cake=t baking needs=t frozen foods=t tissues-paper prd=t 943

bread and cake=t baking needs=t frozen foods=t soft drinks=t 710

bread and cake=t baking needs=t frozen foods=t cheese=t 770

bread and cake=t baking needs=t frozen foods=t milk-cream=t 1087

bread and cake=t baking needs=t frozen foods=t margarine=t 973

bread and cake=t baking needs=t frozen foods=t beef=t 719

bread and cake=t baking needs=t frozen foods=t fruit=t 1097

bread and cake=t baking needs=t frozen foods=t vegetables=t 1116

bread and cake=t baking needs=t frozen foods=t department137=t 700

bread and cake=t baking needs=t frozen foods=t total=high 901

bread and cake=t baking needs=t pet foods=t tissues-paper prd=t 705

bread and cake=t baking needs=t pet foods=t milk-cream=t 785

bread and cake=t baking needs=t pet foods=t margarine=t 703

bread and cake=t baking needs=t pet foods=t fruit=t 778

bread and cake=t baking needs=t pet foods=t vegetables=t 807

bread and cake=t baking needs=t party snack foods=t tissues-paper prd=t 792

bread and cake=t baking needs=t party snack foods=t milk-cream=t 899

bread and cake=t baking needs=t party snack foods=t margarine=t 784

bread and cake=t baking needs=t party snack foods=t fruit=t 922

bread and cake=t baking needs=t party snack foods=t vegetables=t 918

bread and cake=t baking needs=t party snack foods=t total=high 787

bread and cake=t baking needs=t tissues-paper prd=t cheese=t 705

bread and cake=t baking needs=t tissues-paper prd=t milk-cream=t 951

bread and cake=t baking needs=t tissues-paper prd=t margarine=t 877

bread and cake=t baking needs=t tissues-paper prd=t fruit=t 954

bread and cake=t baking needs=t tissues-paper prd=t vegetables=t 970

bread and cake=t baking needs=t tissues-paper prd=t total=high 822

bread and cake=t baking needs=t soft drinks=t milk-cream=t 717

bread and cake=t baking needs=t soft drinks=t fruit=t 701

bread and cake=t baking needs=t cheese=t milk-cream=t 784

bread and cake=t baking needs=t cheese=t margarine=t 740

bread and cake=t baking needs=t cheese=t fruit=t 804

bread and cake=t baking needs=t cheese=t vegetables=t 835

bread and cake=t baking needs=t milk-cream=t margarine=t 987

bread and cake=t baking needs=t milk-cream=t beef=t 712

bread and cake=t baking needs=t milk-cream=t fruit=t 1161

bread and cake=t baking needs=t milk-cream=t vegetables=t 1169

bread and cake=t baking needs=t milk-cream=t department137=t 741

bread and cake=t baking needs=t milk-cream=t total=low 728

bread and cake=t baking needs=t milk-cream=t total=high 852

bread and cake=t baking needs=t margarine=t fruit=t 981

bread and cake=t baking needs=t margarine=t vegetables=t 1013

bread and cake=t baking needs=t margarine=t total=high 790

bread and cake=t baking needs=t dairy foods=t fruit=t 702

bread and cake=t baking needs=t dairy foods=t vegetables=t 699

bread and cake=t baking needs=t beef=t fruit=t 720

bread and cake=t baking needs=t beef=t vegetables=t 778

bread and cake=t baking needs=t fruit=t vegetables=t 1255

bread and cake=t baking needs=t fruit=t department137=t 735

bread and cake=t baking needs=t fruit=t total=low 695

bread and cake=t baking needs=t fruit=t total=high 869

bread and cake=t baking needs=t vegetables=t department137=t 748

bread and cake=t baking needs=t vegetables=t total=low 698

bread and cake=t baking needs=t vegetables=t total=high 888

bread and cake=t juice-sat-cord-ms=t biscuits=t sauces-gravy-pkle=t 750

bread and cake=t juice-sat-cord-ms=t biscuits=t frozen foods=t 959

bread and cake=t juice-sat-cord-ms=t biscuits=t party snack foods=t 897

bread and cake=t juice-sat-cord-ms=t biscuits=t tissues-paper prd=t 795

bread and cake=t juice-sat-cord-ms=t biscuits=t milk-cream=t 903

bread and cake=t juice-sat-cord-ms=t biscuits=t margarine=t 807

bread and cake=t juice-sat-cord-ms=t biscuits=t fruit=t 960

bread and cake=t juice-sat-cord-ms=t biscuits=t vegetables=t 921

bread and cake=t juice-sat-cord-ms=t biscuits=t total=high 760

bread and cake=t juice-sat-cord-ms=t breakfast food=t fruit=t 704

bread and cake=t juice-sat-cord-ms=t sauces-gravy-pkle=t frozen foods=t 779

bread and cake=t juice-sat-cord-ms=t sauces-gravy-pkle=t party snack foods=t 732

bread and cake=t juice-sat-cord-ms=t sauces-gravy-pkle=t milk-cream=t 755

bread and cake=t juice-sat-cord-ms=t sauces-gravy-pkle=t fruit=t 784

bread and cake=t juice-sat-cord-ms=t sauces-gravy-pkle=t vegetables=t 782

bread and cake=t juice-sat-cord-ms=t frozen foods=t party snack foods=t 869

bread and cake=t juice-sat-cord-ms=t frozen foods=t tissues-paper prd=t 803

bread and cake=t juice-sat-cord-ms=t frozen foods=t milk-cream=t 925

bread and cake=t juice-sat-cord-ms=t frozen foods=t margarine=t 803

bread and cake=t juice-sat-cord-ms=t frozen foods=t fruit=t 971

bread and cake=t juice-sat-cord-ms=t frozen foods=t vegetables=t 958

bread and cake=t juice-sat-cord-ms=t frozen foods=t total=high 777

bread and cake=t juice-sat-cord-ms=t party snack foods=t tissues-paper prd=t 741

bread and cake=t juice-sat-cord-ms=t party snack foods=t milk-cream=t 832

bread and cake=t juice-sat-cord-ms=t party snack foods=t margarine=t 711

bread and cake=t juice-sat-cord-ms=t party snack foods=t fruit=t 883

bread and cake=t juice-sat-cord-ms=t party snack foods=t vegetables=t 844

bread and cake=t juice-sat-cord-ms=t party snack foods=t total=high 720

bread and cake=t juice-sat-cord-ms=t tissues-paper prd=t milk-cream=t 796

bread and cake=t juice-sat-cord-ms=t tissues-paper prd=t margarine=t 733

bread and cake=t juice-sat-cord-ms=t tissues-paper prd=t fruit=t 824

bread and cake=t juice-sat-cord-ms=t tissues-paper prd=t vegetables=t 813

bread and cake=t juice-sat-cord-ms=t tissues-paper prd=t total=high 707

bread and cake=t juice-sat-cord-ms=t cheese=t fruit=t 715

bread and cake=t juice-sat-cord-ms=t cheese=t vegetables=t 711

bread and cake=t juice-sat-cord-ms=t milk-cream=t margarine=t 790

bread and cake=t juice-sat-cord-ms=t milk-cream=t fruit=t 985

bread and cake=t juice-sat-cord-ms=t milk-cream=t vegetables=t 963

bread and cake=t juice-sat-cord-ms=t milk-cream=t total=high 728

bread and cake=t juice-sat-cord-ms=t margarine=t fruit=t 815

bread and cake=t juice-sat-cord-ms=t margarine=t vegetables=t 817

bread and cake=t juice-sat-cord-ms=t fruit=t vegetables=t 1067

bread and cake=t juice-sat-cord-ms=t fruit=t total=high 765

bread and cake=t juice-sat-cord-ms=t vegetables=t total=high 758

bread and cake=t biscuits=t canned vegetables=t frozen foods=t 734

bread and cake=t biscuits=t canned vegetables=t fruit=t 721

bread and cake=t biscuits=t canned vegetables=t vegetables=t 715

bread and cake=t biscuits=t breakfast food=t frozen foods=t 791

bread and cake=t biscuits=t breakfast food=t milk-cream=t 731

bread and cake=t biscuits=t breakfast food=t fruit=t 783

bread and cake=t biscuits=t breakfast food=t vegetables=t 766

bread and cake=t biscuits=t sauces-gravy-pkle=t frozen foods=t 906

bread and cake=t biscuits=t sauces-gravy-pkle=t party snack foods=t 809

bread and cake=t biscuits=t sauces-gravy-pkle=t tissues-paper prd=t 746

bread and cake=t biscuits=t sauces-gravy-pkle=t milk-cream=t 823

bread and cake=t biscuits=t sauces-gravy-pkle=t margarine=t 739

bread and cake=t biscuits=t sauces-gravy-pkle=t fruit=t 860

bread and cake=t biscuits=t sauces-gravy-pkle=t vegetables=t 879

bread and cake=t biscuits=t sauces-gravy-pkle=t total=high 757

bread and cake=t biscuits=t confectionary=t fruit=t 696

bread and cake=t biscuits=t frozen foods=t pet foods=t 772

bread and cake=t biscuits=t frozen foods=t party snack foods=t 995

bread and cake=t biscuits=t frozen foods=t tissues-paper prd=t 920

bread and cake=t biscuits=t frozen foods=t soft drinks=t 743

bread and cake=t biscuits=t frozen foods=t cheese=t 791

bread and cake=t biscuits=t frozen foods=t milk-cream=t 1089

bread and cake=t biscuits=t frozen foods=t margarine=t 952

bread and cake=t biscuits=t frozen foods=t beef=t 719

bread and cake=t biscuits=t frozen foods=t fruit=t 1143

bread and cake=t biscuits=t frozen foods=t vegetables=t 1120

bread and cake=t biscuits=t frozen foods=t department137=t 729

bread and cake=t biscuits=t frozen foods=t total=high 900

bread and cake=t biscuits=t pet foods=t milk-cream=t 734

bread and cake=t biscuits=t pet foods=t fruit=t 765

bread and cake=t biscuits=t pet foods=t vegetables=t 767

bread and cake=t biscuits=t party snack foods=t tissues-paper prd=t 810

bread and cake=t biscuits=t party snack foods=t cheese=t 703

bread and cake=t biscuits=t party snack foods=t milk-cream=t 932

bread and cake=t biscuits=t party snack foods=t margarine=t 789

bread and cake=t biscuits=t party snack foods=t fruit=t 988

bread and cake=t biscuits=t party snack foods=t vegetables=t 951

bread and cake=t biscuits=t party snack foods=t total=high 795

bread and cake=t biscuits=t tissues-paper prd=t milk-cream=t 870

bread and cake=t biscuits=t tissues-paper prd=t margarine=t 804

bread and cake=t biscuits=t tissues-paper prd=t fruit=t 918

bread and cake=t biscuits=t tissues-paper prd=t vegetables=t 903

bread and cake=t biscuits=t tissues-paper prd=t total=high 788

bread and cake=t biscuits=t soft drinks=t milk-cream=t 721

bread and cake=t biscuits=t soft drinks=t fruit=t 728

bread and cake=t biscuits=t cheese=t milk-cream=t 751

bread and cake=t biscuits=t cheese=t margarine=t 707

bread and cake=t biscuits=t cheese=t fruit=t 797

bread and cake=t biscuits=t cheese=t vegetables=t 787

bread and cake=t biscuits=t milk-cream=t margarine=t 903

bread and cake=t biscuits=t milk-cream=t fruit=t 1122

bread and cake=t biscuits=t milk-cream=t vegetables=t 1075

bread and cake=t biscuits=t milk-cream=t department137=t 706

bread and cake=t biscuits=t milk-cream=t total=high 820

bread and cake=t biscuits=t margarine=t fruit=t 938

bread and cake=t biscuits=t margarine=t vegetables=t 925

bread and cake=t biscuits=t margarine=t total=high 762

bread and cake=t biscuits=t dairy foods=t fruit=t 716

bread and cake=t biscuits=t beef=t vegetables=t 717

bread and cake=t biscuits=t fruit=t vegetables=t 1216

bread and cake=t biscuits=t fruit=t department137=t 737

bread and cake=t biscuits=t fruit=t total=high 866

bread and cake=t biscuits=t vegetables=t department137=t 717

bread and cake=t biscuits=t vegetables=t total=high 858

bread and cake=t canned vegetables=t frozen foods=t fruit=t 708

bread and cake=t canned vegetables=t frozen foods=t vegetables=t 727

bread and cake=t canned vegetables=t milk-cream=t fruit=t 699

bread and cake=t canned vegetables=t milk-cream=t vegetables=t 696

bread and cake=t canned vegetables=t fruit=t vegetables=t 791

bread and cake=t breakfast food=t frozen foods=t milk-cream=t 723

bread and cake=t breakfast food=t frozen foods=t fruit=t 763

bread and cake=t breakfast food=t frozen foods=t vegetables=t 770

bread and cake=t breakfast food=t milk-cream=t fruit=t 796

bread and cake=t breakfast food=t milk-cream=t vegetables=t 775

bread and cake=t breakfast food=t fruit=t vegetables=t 865

bread and cake=t sauces-gravy-pkle=t frozen foods=t party snack foods=t 822

bread and cake=t sauces-gravy-pkle=t frozen foods=t tissues-paper prd=t 780

bread and cake=t sauces-gravy-pkle=t frozen foods=t milk-cream=t 867

bread and cake=t sauces-gravy-pkle=t frozen foods=t margarine=t 762

bread and cake=t sauces-gravy-pkle=t frozen foods=t fruit=t 901

bread and cake=t sauces-gravy-pkle=t frozen foods=t vegetables=t 928

bread and cake=t sauces-gravy-pkle=t frozen foods=t total=high 791

bread and cake=t sauces-gravy-pkle=t party snack foods=t tissues-paper prd=t 703

bread and cake=t sauces-gravy-pkle=t party snack foods=t milk-cream=t 759

bread and cake=t sauces-gravy-pkle=t party snack foods=t fruit=t 785

bread and cake=t sauces-gravy-pkle=t party snack foods=t vegetables=t 789

bread and cake=t sauces-gravy-pkle=t party snack foods=t total=high 708

bread and cake=t sauces-gravy-pkle=t tissues-paper prd=t milk-cream=t 748

bread and cake=t sauces-gravy-pkle=t tissues-paper prd=t fruit=t 774

bread and cake=t sauces-gravy-pkle=t tissues-paper prd=t vegetables=t 791

bread and cake=t sauces-gravy-pkle=t tissues-paper prd=t total=high 717

bread and cake=t sauces-gravy-pkle=t milk-cream=t margarine=t 757

bread and cake=t sauces-gravy-pkle=t milk-cream=t fruit=t 905

bread and cake=t sauces-gravy-pkle=t milk-cream=t vegetables=t 917

bread and cake=t sauces-gravy-pkle=t milk-cream=t total=high 724

bread and cake=t sauces-gravy-pkle=t margarine=t fruit=t 739

bread and cake=t sauces-gravy-pkle=t margarine=t vegetables=t 795

bread and cake=t sauces-gravy-pkle=t fruit=t vegetables=t 1005

bread and cake=t sauces-gravy-pkle=t fruit=t total=high 758

bread and cake=t sauces-gravy-pkle=t vegetables=t total=high 781

bread and cake=t confectionary=t milk-cream=t fruit=t 704

bread and cake=t confectionary=t fruit=t vegetables=t 714

bread and cake=t frozen foods=t pet foods=t milk-cream=t 765

bread and cake=t frozen foods=t pet foods=t fruit=t 790

bread and cake=t frozen foods=t pet foods=t vegetables=t 809

bread and cake=t frozen foods=t party snack foods=t tissues-paper prd=t 811

bread and cake=t frozen foods=t party snack foods=t milk-cream=t 915

bread and cake=t frozen foods=t party snack foods=t margarine=t 769

bread and cake=t frozen foods=t party snack foods=t fruit=t 960

bread and cake=t frozen foods=t party snack foods=t vegetables=t 941

bread and cake=t frozen foods=t party snack foods=t total=high 803

bread and cake=t frozen foods=t tissues-paper prd=t milk-cream=t 904

bread and cake=t frozen foods=t tissues-paper prd=t margarine=t 809

bread and cake=t frozen foods=t tissues-paper prd=t fruit=t 939

bread and cake=t frozen foods=t tissues-paper prd=t vegetables=t 944

bread and cake=t frozen foods=t tissues-paper prd=t total=high 814

bread and cake=t frozen foods=t soft drinks=t milk-cream=t 740

bread and cake=t frozen foods=t soft drinks=t fruit=t 745

bread and cake=t frozen foods=t soft drinks=t vegetables=t 725

bread and cake=t frozen foods=t cheese=t milk-cream=t 741

bread and cake=t frozen foods=t cheese=t margarine=t 695

bread and cake=t frozen foods=t cheese=t fruit=t 785

bread and cake=t frozen foods=t cheese=t vegetables=t 782

bread and cake=t frozen foods=t milk-cream=t margarine=t 896

bread and cake=t frozen foods=t milk-cream=t beef=t 725

bread and cake=t frozen foods=t milk-cream=t fruit=t 1138

bread and cake=t frozen foods=t milk-cream=t vegetables=t 1131

bread and cake=t frozen foods=t milk-cream=t department137=t 715

bread and cake=t frozen foods=t milk-cream=t total=high 846

bread and cake=t frozen foods=t margarine=t fruit=t 912

bread and cake=t frozen foods=t margarine=t vegetables=t 932

bread and cake=t frozen foods=t margarine=t total=high 770

bread and cake=t frozen foods=t dairy foods=t fruit=t 711

bread and cake=t frozen foods=t dairy foods=t vegetables=t 696

bread and cake=t frozen foods=t beef=t fruit=t 725

bread and cake=t frozen foods=t beef=t vegetables=t 789

bread and cake=t frozen foods=t fruit=t vegetables=t 1242

bread and cake=t frozen foods=t fruit=t department137=t 743

bread and cake=t frozen foods=t fruit=t total=high 877

bread and cake=t frozen foods=t vegetables=t department137=t 732

bread and cake=t frozen foods=t vegetables=t total=high 889

bread and cake=t pet foods=t tissues-paper prd=t fruit=t 698

bread and cake=t pet foods=t tissues-paper prd=t vegetables=t 711

bread and cake=t pet foods=t milk-cream=t fruit=t 823

bread and cake=t pet foods=t milk-cream=t vegetables=t 824

bread and cake=t pet foods=t margarine=t vegetables=t 697

bread and cake=t pet foods=t fruit=t vegetables=t 882

bread and cake=t laundry needs=t fruit=t vegetables=t 721

bread and cake=t party snack foods=t tissues-paper prd=t milk-cream=t 756

bread and cake=t party snack foods=t tissues-paper prd=t fruit=t 800

bread and cake=t party snack foods=t tissues-paper prd=t vegetables=t 791

bread and cake=t party snack foods=t tissues-paper prd=t total=high 704

bread and cake=t party snack foods=t cheese=t fruit=t 707

bread and cake=t party snack foods=t milk-cream=t margarine=t 723

bread and cake=t party snack foods=t milk-cream=t fruit=t 960

bread and cake=t party snack foods=t milk-cream=t vegetables=t 910

bread and cake=t party snack foods=t milk-cream=t total=high 729

bread and cake=t party snack foods=t margarine=t fruit=t 752

bread and cake=t party snack foods=t margarine=t vegetables=t 754

bread and cake=t party snack foods=t fruit=t vegetables=t 1028

bread and cake=t party snack foods=t fruit=t total=high 779

bread and cake=t party snack foods=t vegetables=t total=high 761

bread and cake=t tissues-paper prd=t cheese=t fruit=t 700

bread and cake=t tissues-paper prd=t cheese=t vegetables=t 704

bread and cake=t tissues-paper prd=t milk-cream=t margarine=t 796

bread and cake=t tissues-paper prd=t milk-cream=t fruit=t 960

bread and cake=t tissues-paper prd=t milk-cream=t vegetables=t 944

bread and cake=t tissues-paper prd=t milk-cream=t total=high 754

bread and cake=t tissues-paper prd=t margarine=t fruit=t 814

bread and cake=t tissues-paper prd=t margarine=t vegetables=t 829

bread and cake=t tissues-paper prd=t margarine=t total=high 713

bread and cake=t tissues-paper prd=t fruit=t vegetables=t 1044

bread and cake=t tissues-paper prd=t fruit=t total=high 792

bread and cake=t tissues-paper prd=t vegetables=t total=high 809

bread and cake=t soft drinks=t milk-cream=t fruit=t 758

bread and cake=t soft drinks=t milk-cream=t vegetables=t 726

bread and cake=t soft drinks=t fruit=t vegetables=t 782

bread and cake=t cheese=t milk-cream=t fruit=t 818

bread and cake=t cheese=t milk-cream=t vegetables=t 813

bread and cake=t cheese=t margarine=t fruit=t 722

bread and cake=t cheese=t margarine=t vegetables=t 732

bread and cake=t cheese=t fruit=t vegetables=t 894

bread and cake=t milk-cream=t margarine=t fruit=t 952

bread and cake=t milk-cream=t margarine=t vegetables=t 958

bread and cake=t milk-cream=t margarine=t total=high 724

bread and cake=t milk-cream=t dairy foods=t fruit=t 726

bread and cake=t milk-cream=t dairy foods=t vegetables=t 705

bread and cake=t milk-cream=t beef=t fruit=t 732

bread and cake=t milk-cream=t beef=t vegetables=t 786

bread and cake=t milk-cream=t fruit=t vegetables=t 1311

bread and cake=t milk-cream=t fruit=t department137=t 800

bread and cake=t milk-cream=t fruit=t total=low 832

bread and cake=t milk-cream=t fruit=t total=high 852

bread and cake=t milk-cream=t vegetables=t department137=t 781

bread and cake=t milk-cream=t vegetables=t total=low 814

bread and cake=t milk-cream=t vegetables=t total=high 844

bread and cake=t margarine=t fruit=t vegetables=t 1047

bread and cake=t margarine=t fruit=t total=high 737

bread and cake=t margarine=t vegetables=t total=high 764

bread and cake=t dairy foods=t fruit=t vegetables=t 791

bread and cake=t beef=t fruit=t vegetables=t 846

bread and cake=t fruit=t vegetables=t department137=t 843

bread and cake=t fruit=t vegetables=t total=low 853

bread and cake=t fruit=t vegetables=t total=high 938

baking needs=t juice-sat-cord-ms=t biscuits=t frozen foods=t 861

baking needs=t juice-sat-cord-ms=t biscuits=t party snack foods=t 779

baking needs=t juice-sat-cord-ms=t biscuits=t tissues-paper prd=t 715

baking needs=t juice-sat-cord-ms=t biscuits=t milk-cream=t 766

baking needs=t juice-sat-cord-ms=t biscuits=t margarine=t 746

baking needs=t juice-sat-cord-ms=t biscuits=t fruit=t 807

baking needs=t juice-sat-cord-ms=t biscuits=t vegetables=t 797

baking needs=t juice-sat-cord-ms=t biscuits=t total=high 696

baking needs=t juice-sat-cord-ms=t sauces-gravy-pkle=t frozen foods=t 725

baking needs=t juice-sat-cord-ms=t sauces-gravy-pkle=t vegetables=t 702

baking needs=t juice-sat-cord-ms=t frozen foods=t party snack foods=t 789

baking needs=t juice-sat-cord-ms=t frozen foods=t tissues-paper prd=t 745

baking needs=t juice-sat-cord-ms=t frozen foods=t milk-cream=t 807

baking needs=t juice-sat-cord-ms=t frozen foods=t margarine=t 775

baking needs=t juice-sat-cord-ms=t frozen foods=t fruit=t 821

baking needs=t juice-sat-cord-ms=t frozen foods=t vegetables=t 850

baking needs=t juice-sat-cord-ms=t frozen foods=t total=high 725

baking needs=t juice-sat-cord-ms=t party snack foods=t milk-cream=t 700

baking needs=t juice-sat-cord-ms=t party snack foods=t fruit=t 722

baking needs=t juice-sat-cord-ms=t party snack foods=t vegetables=t 741

baking needs=t juice-sat-cord-ms=t tissues-paper prd=t margarine=t 696

baking needs=t juice-sat-cord-ms=t tissues-paper prd=t fruit=t 710

baking needs=t juice-sat-cord-ms=t tissues-paper prd=t vegetables=t 723

baking needs=t juice-sat-cord-ms=t milk-cream=t margarine=t 709

baking needs=t juice-sat-cord-ms=t milk-cream=t fruit=t 805

baking needs=t juice-sat-cord-ms=t milk-cream=t vegetables=t 817

baking needs=t juice-sat-cord-ms=t margarine=t fruit=t 719

baking needs=t juice-sat-cord-ms=t margarine=t vegetables=t 744

baking needs=t juice-sat-cord-ms=t fruit=t vegetables=t 890

baking needs=t biscuits=t breakfast food=t frozen foods=t 740

baking needs=t biscuits=t breakfast food=t fruit=t 700

baking needs=t biscuits=t sauces-gravy-pkle=t frozen foods=t 828

baking needs=t biscuits=t sauces-gravy-pkle=t party snack foods=t 730

baking needs=t biscuits=t sauces-gravy-pkle=t tissues-paper prd=t 702

baking needs=t biscuits=t sauces-gravy-pkle=t milk-cream=t 733

baking needs=t biscuits=t sauces-gravy-pkle=t margarine=t 698

baking needs=t biscuits=t sauces-gravy-pkle=t fruit=t 755

baking needs=t biscuits=t sauces-gravy-pkle=t vegetables=t 774

baking needs=t biscuits=t sauces-gravy-pkle=t total=high 715

baking needs=t biscuits=t frozen foods=t party snack foods=t 870

baking needs=t biscuits=t frozen foods=t tissues-paper prd=t 841

baking needs=t biscuits=t frozen foods=t cheese=t 699

baking needs=t biscuits=t frozen foods=t milk-cream=t 932

baking needs=t biscuits=t frozen foods=t margarine=t 883

baking needs=t biscuits=t frozen foods=t fruit=t 968

baking needs=t biscuits=t frozen foods=t vegetables=t 969

baking needs=t biscuits=t frozen foods=t total=high 825

baking needs=t biscuits=t party snack foods=t tissues-paper prd=t 725

baking needs=t biscuits=t party snack foods=t milk-cream=t 787

baking needs=t biscuits=t party snack foods=t margarine=t 719

baking needs=t biscuits=t party snack foods=t fruit=t 814

baking needs=t biscuits=t party snack foods=t vegetables=t 815

baking needs=t biscuits=t party snack foods=t total=high 721

baking needs=t biscuits=t tissues-paper prd=t milk-cream=t 759

baking needs=t biscuits=t tissues-paper prd=t margarine=t 749

baking needs=t biscuits=t tissues-paper prd=t fruit=t 803

baking needs=t biscuits=t tissues-paper prd=t vegetables=t 804

baking needs=t biscuits=t tissues-paper prd=t total=high 732

baking needs=t biscuits=t cheese=t vegetables=t 694

baking needs=t biscuits=t milk-cream=t margarine=t 794

baking needs=t biscuits=t milk-cream=t fruit=t 929

baking needs=t biscuits=t milk-cream=t vegetables=t 909

baking needs=t biscuits=t milk-cream=t total=high 737

baking needs=t biscuits=t margarine=t fruit=t 829

baking needs=t biscuits=t margarine=t vegetables=t 829

baking needs=t biscuits=t margarine=t total=high 720

baking needs=t biscuits=t fruit=t vegetables=t 1021

baking needs=t biscuits=t fruit=t total=high 760

baking needs=t biscuits=t vegetables=t total=high 772

baking needs=t breakfast food=t frozen foods=t fruit=t 696

baking needs=t breakfast food=t frozen foods=t vegetables=t 717

baking needs=t breakfast food=t milk-cream=t fruit=t 701

baking needs=t breakfast food=t fruit=t vegetables=t 770

baking needs=t sauces-gravy-pkle=t frozen foods=t party snack foods=t 744

baking needs=t sauces-gravy-pkle=t frozen foods=t tissues-paper prd=t 733

baking needs=t sauces-gravy-pkle=t frozen foods=t milk-cream=t 759

baking needs=t sauces-gravy-pkle=t frozen foods=t margarine=t 723

baking needs=t sauces-gravy-pkle=t frozen foods=t fruit=t 769

baking needs=t sauces-gravy-pkle=t frozen foods=t vegetables=t 820

baking needs=t sauces-gravy-pkle=t frozen foods=t total=high 740

baking needs=t sauces-gravy-pkle=t party snack foods=t vegetables=t 709

baking needs=t sauces-gravy-pkle=t tissues-paper prd=t vegetables=t 725

baking needs=t sauces-gravy-pkle=t milk-cream=t fruit=t 767

baking needs=t sauces-gravy-pkle=t milk-cream=t vegetables=t 809

baking needs=t sauces-gravy-pkle=t margarine=t vegetables=t 722

baking needs=t sauces-gravy-pkle=t fruit=t vegetables=t 864

baking needs=t sauces-gravy-pkle=t vegetables=t total=high 714

baking needs=t frozen foods=t pet foods=t vegetables=t 698

baking needs=t frozen foods=t party snack foods=t tissues-paper prd=t 725

baking needs=t frozen foods=t party snack foods=t milk-cream=t 776

baking needs=t frozen foods=t party snack foods=t margarine=t 711

baking needs=t frozen foods=t party snack foods=t fruit=t 791

baking needs=t frozen foods=t party snack foods=t vegetables=t 812

baking needs=t frozen foods=t party snack foods=t total=high 734

baking needs=t frozen foods=t tissues-paper prd=t milk-cream=t 794

baking needs=t frozen foods=t tissues-paper prd=t margarine=t 773

baking needs=t frozen foods=t tissues-paper prd=t fruit=t 816

baking needs=t frozen foods=t tissues-paper prd=t vegetables=t 847

baking needs=t frozen foods=t tissues-paper prd=t total=high 754

baking needs=t frozen foods=t cheese=t vegetables=t 702

baking needs=t frozen foods=t milk-cream=t margarine=t 822

baking needs=t frozen foods=t milk-cream=t fruit=t 939

baking needs=t frozen foods=t milk-cream=t vegetables=t 961

baking needs=t frozen foods=t milk-cream=t total=high 762

baking needs=t frozen foods=t margarine=t fruit=t 816

baking needs=t frozen foods=t margarine=t vegetables=t 860

baking needs=t frozen foods=t margarine=t total=high 730

baking needs=t frozen foods=t fruit=t vegetables=t 1040

baking needs=t frozen foods=t fruit=t total=high 770

baking needs=t frozen foods=t vegetables=t total=high 807

baking needs=t pet foods=t milk-cream=t vegetables=t 704

baking needs=t pet foods=t fruit=t vegetables=t 746

baking needs=t party snack foods=t tissues-paper prd=t vegetables=t 700

baking needs=t party snack foods=t milk-cream=t fruit=t 771

baking needs=t party snack foods=t milk-cream=t vegetables=t 771

baking needs=t party snack foods=t fruit=t vegetables=t 855

baking needs=t tissues-paper prd=t milk-cream=t margarine=t 731

baking needs=t tissues-paper prd=t milk-cream=t fruit=t 826

baking needs=t tissues-paper prd=t milk-cream=t vegetables=t 835

baking needs=t tissues-paper prd=t milk-cream=t total=high 694

baking needs=t tissues-paper prd=t margarine=t fruit=t 743

baking needs=t tissues-paper prd=t margarine=t vegetables=t 774

baking needs=t tissues-paper prd=t fruit=t vegetables=t 905

baking needs=t tissues-paper prd=t fruit=t total=high 705

baking needs=t tissues-paper prd=t vegetables=t total=high 740

baking needs=t cheese=t milk-cream=t vegetables=t 717

baking needs=t cheese=t fruit=t vegetables=t 772

baking needs=t milk-cream=t margarine=t fruit=t 827

baking needs=t milk-cream=t margarine=t vegetables=t 855

baking needs=t milk-cream=t fruit=t vegetables=t 1097

baking needs=t milk-cream=t fruit=t total=high 740

baking needs=t milk-cream=t vegetables=t total=high 758

baking needs=t margarine=t fruit=t vegetables=t 919

baking needs=t margarine=t vegetables=t total=high 722

baking needs=t beef=t fruit=t vegetables=t 720

baking needs=t fruit=t vegetables=t total=high 831

juice-sat-cord-ms=t biscuits=t sauces-gravy-pkle=t frozen foods=t 723

juice-sat-cord-ms=t biscuits=t frozen foods=t party snack foods=t 820

juice-sat-cord-ms=t biscuits=t frozen foods=t tissues-paper prd=t 728

juice-sat-cord-ms=t biscuits=t frozen foods=t milk-cream=t 788

juice-sat-cord-ms=t biscuits=t frozen foods=t margarine=t 745

juice-sat-cord-ms=t biscuits=t frozen foods=t fruit=t 856

juice-sat-cord-ms=t biscuits=t frozen foods=t vegetables=t 839

juice-sat-cord-ms=t biscuits=t frozen foods=t total=high 720

juice-sat-cord-ms=t biscuits=t party snack foods=t milk-cream=t 730

juice-sat-cord-ms=t biscuits=t party snack foods=t fruit=t 787

juice-sat-cord-ms=t biscuits=t party snack foods=t vegetables=t 761

juice-sat-cord-ms=t biscuits=t tissues-paper prd=t fruit=t 701

juice-sat-cord-ms=t biscuits=t milk-cream=t fruit=t 799

juice-sat-cord-ms=t biscuits=t milk-cream=t vegetables=t 761

juice-sat-cord-ms=t biscuits=t margarine=t fruit=t 699

juice-sat-cord-ms=t biscuits=t fruit=t vegetables=t 883

juice-sat-cord-ms=t sauces-gravy-pkle=t frozen foods=t party snack foods=t 701

juice-sat-cord-ms=t sauces-gravy-pkle=t frozen foods=t fruit=t 701

juice-sat-cord-ms=t sauces-gravy-pkle=t frozen foods=t vegetables=t 715

juice-sat-cord-ms=t sauces-gravy-pkle=t fruit=t vegetables=t 751

juice-sat-cord-ms=t frozen foods=t party snack foods=t milk-cream=t 716

juice-sat-cord-ms=t frozen foods=t party snack foods=t fruit=t 766

juice-sat-cord-ms=t frozen foods=t party snack foods=t vegetables=t 767

juice-sat-cord-ms=t frozen foods=t tissues-paper prd=t fruit=t 711

juice-sat-cord-ms=t frozen foods=t tissues-paper prd=t vegetables=t 718

juice-sat-cord-ms=t frozen foods=t milk-cream=t fruit=t 826

juice-sat-cord-ms=t frozen foods=t milk-cream=t vegetables=t 813

juice-sat-cord-ms=t frozen foods=t margarine=t fruit=t 706

juice-sat-cord-ms=t frozen foods=t margarine=t vegetables=t 721

juice-sat-cord-ms=t frozen foods=t fruit=t vegetables=t 920

juice-sat-cord-ms=t frozen foods=t vegetables=t total=high 701

juice-sat-cord-ms=t party snack foods=t milk-cream=t fruit=t 724

juice-sat-cord-ms=t party snack foods=t milk-cream=t vegetables=t 697

juice-sat-cord-ms=t party snack foods=t fruit=t vegetables=t 804

juice-sat-cord-ms=t tissues-paper prd=t milk-cream=t fruit=t 697

juice-sat-cord-ms=t tissues-paper prd=t fruit=t vegetables=t 767

juice-sat-cord-ms=t milk-cream=t fruit=t vegetables=t 920

juice-sat-cord-ms=t margarine=t fruit=t vegetables=t 760

juice-sat-cord-ms=t fruit=t vegetables=t total=high 731

biscuits=t breakfast food=t fruit=t vegetables=t 725

biscuits=t sauces-gravy-pkle=t frozen foods=t party snack foods=t 774

biscuits=t sauces-gravy-pkle=t frozen foods=t tissues-paper prd=t 702

biscuits=t sauces-gravy-pkle=t frozen foods=t milk-cream=t 752

biscuits=t sauces-gravy-pkle=t frozen foods=t margarine=t 697

biscuits=t sauces-gravy-pkle=t frozen foods=t fruit=t 796

biscuits=t sauces-gravy-pkle=t frozen foods=t vegetables=t 810

biscuits=t sauces-gravy-pkle=t frozen foods=t total=high 731

biscuits=t sauces-gravy-pkle=t party snack foods=t fruit=t 704

biscuits=t sauces-gravy-pkle=t party snack foods=t vegetables=t 718

biscuits=t sauces-gravy-pkle=t milk-cream=t fruit=t 728

biscuits=t sauces-gravy-pkle=t milk-cream=t vegetables=t 728

biscuits=t sauces-gravy-pkle=t fruit=t vegetables=t 822

biscuits=t frozen foods=t party snack foods=t tissues-paper prd=t 749

biscuits=t frozen foods=t party snack foods=t milk-cream=t 812

biscuits=t frozen foods=t party snack foods=t margarine=t 729

biscuits=t frozen foods=t party snack foods=t fruit=t 872

biscuits=t frozen foods=t party snack foods=t vegetables=t 853

biscuits=t frozen foods=t party snack foods=t total=high 747

biscuits=t frozen foods=t tissues-paper prd=t milk-cream=t 753

biscuits=t frozen foods=t tissues-paper prd=t margarine=t 732

biscuits=t frozen foods=t tissues-paper prd=t fruit=t 810

biscuits=t frozen foods=t tissues-paper prd=t vegetables=t 795

biscuits=t frozen foods=t tissues-paper prd=t total=high 742

biscuits=t frozen foods=t cheese=t vegetables=t 700

biscuits=t frozen foods=t milk-cream=t margarine=t 784

biscuits=t frozen foods=t milk-cream=t fruit=t 941

biscuits=t frozen foods=t milk-cream=t vegetables=t 915

biscuits=t frozen foods=t milk-cream=t total=high 748

biscuits=t frozen foods=t margarine=t fruit=t 811

biscuits=t frozen foods=t margarine=t vegetables=t 811

biscuits=t frozen foods=t margarine=t total=high 721

biscuits=t frozen foods=t fruit=t vegetables=t 1039

biscuits=t frozen foods=t fruit=t total=high 788

biscuits=t frozen foods=t vegetables=t total=high 797

biscuits=t pet foods=t fruit=t vegetables=t 710

biscuits=t party snack foods=t tissues-paper prd=t fruit=t 718

biscuits=t party snack foods=t tissues-paper prd=t vegetables=t 706

biscuits=t party snack foods=t milk-cream=t fruit=t 818

biscuits=t party snack foods=t milk-cream=t vegetables=t 783

biscuits=t party snack foods=t fruit=t vegetables=t 904

biscuits=t party snack foods=t fruit=t total=high 695

biscuits=t tissues-paper prd=t milk-cream=t fruit=t 767

biscuits=t tissues-paper prd=t milk-cream=t vegetables=t 737

biscuits=t tissues-paper prd=t margarine=t fruit=t 708

biscuits=t tissues-paper prd=t margarine=t vegetables=t 694

biscuits=t tissues-paper prd=t fruit=t vegetables=t 853

biscuits=t tissues-paper prd=t fruit=t total=high 697

biscuits=t tissues-paper prd=t vegetables=t total=high 702

biscuits=t cheese=t fruit=t vegetables=t 744

biscuits=t milk-cream=t margarine=t fruit=t 774

biscuits=t milk-cream=t margarine=t vegetables=t 750

biscuits=t milk-cream=t fruit=t vegetables=t 1015

biscuits=t milk-cream=t fruit=t total=high 725

biscuits=t milk-cream=t vegetables=t total=high 716

biscuits=t margarine=t fruit=t vegetables=t 856

biscuits=t fruit=t vegetables=t total=high 815

breakfast food=t frozen foods=t fruit=t vegetables=t 735

breakfast food=t milk-cream=t fruit=t vegetables=t 750

sauces-gravy-pkle=t frozen foods=t party snack foods=t fruit=t 706

sauces-gravy-pkle=t frozen foods=t party snack foods=t vegetables=t 724

sauces-gravy-pkle=t frozen foods=t tissues-paper prd=t vegetables=t 708

sauces-gravy-pkle=t frozen foods=t milk-cream=t fruit=t 771

sauces-gravy-pkle=t frozen foods=t milk-cream=t vegetables=t 782

sauces-gravy-pkle=t frozen foods=t fruit=t vegetables=t 868

sauces-gravy-pkle=t frozen foods=t vegetables=t total=high 713

sauces-gravy-pkle=t party snack foods=t fruit=t vegetables=t 747

sauces-gravy-pkle=t tissues-paper prd=t fruit=t vegetables=t 746

sauces-gravy-pkle=t milk-cream=t fruit=t vegetables=t 869

sauces-gravy-pkle=t margarine=t fruit=t vegetables=t 716

sauces-gravy-pkle=t fruit=t vegetables=t total=high 733

frozen foods=t pet foods=t fruit=t vegetables=t 752

frozen foods=t party snack foods=t tissues-paper prd=t fruit=t 709

frozen foods=t party snack foods=t tissues-paper prd=t vegetables=t 706

frozen foods=t party snack foods=t milk-cream=t fruit=t 803

frozen foods=t party snack foods=t milk-cream=t vegetables=t 776

frozen foods=t party snack foods=t fruit=t vegetables=t 884

frozen foods=t party snack foods=t fruit=t total=high 697

frozen foods=t party snack foods=t vegetables=t total=high 698

frozen foods=t tissues-paper prd=t milk-cream=t fruit=t 807

frozen foods=t tissues-paper prd=t milk-cream=t vegetables=t 797

frozen foods=t tissues-paper prd=t margarine=t fruit=t 697

frozen foods=t tissues-paper prd=t margarine=t vegetables=t 722

frozen foods=t tissues-paper prd=t fruit=t vegetables=t 887

frozen foods=t tissues-paper prd=t fruit=t total=high 708

frozen foods=t tissues-paper prd=t vegetables=t total=high 731

frozen foods=t cheese=t fruit=t vegetables=t 725

frozen foods=t milk-cream=t margarine=t fruit=t 766

frozen foods=t milk-cream=t margarine=t vegetables=t 784

frozen foods=t milk-cream=t fruit=t vegetables=t 1057

frozen foods=t milk-cream=t fruit=t total=high 743

frozen foods=t milk-cream=t vegetables=t total=high 748

frozen foods=t margarine=t fruit=t vegetables=t 858

frozen foods=t margarine=t vegetables=t total=high 694

frozen foods=t beef=t fruit=t vegetables=t 717

frozen foods=t fruit=t vegetables=t total=high 834

pet foods=t milk-cream=t fruit=t vegetables=t 769

party snack foods=t tissues-paper prd=t fruit=t vegetables=t 750

party snack foods=t milk-cream=t fruit=t vegetables=t 863

party snack foods=t margarine=t fruit=t vegetables=t 701

party snack foods=t fruit=t vegetables=t total=high 720

tissues-paper prd=t milk-cream=t fruit=t vegetables=t 897

tissues-paper prd=t margarine=t fruit=t vegetables=t 770

tissues-paper prd=t fruit=t vegetables=t total=high 754

cheese=t milk-cream=t fruit=t vegetables=t 765

milk-cream=t margarine=t fruit=t vegetables=t 882

milk-cream=t beef=t fruit=t vegetables=t 716

milk-cream=t fruit=t vegetables=t department137=t 726

milk-cream=t fruit=t vegetables=t total=low 763

milk-cream=t fruit=t vegetables=t total=high 808

margarine=t fruit=t vegetables=t total=high 711

Size of set of large itemsets L(5): 105

Large Itemsets L(5):

bread and cake=t baking needs=t juice-sat-cord-ms=t biscuits=t frozen foods=t 730

bread and cake=t baking needs=t juice-sat-cord-ms=t biscuits=t fruit=t 706

bread and cake=t baking needs=t juice-sat-cord-ms=t frozen foods=t milk-cream=t 694

bread and cake=t baking needs=t juice-sat-cord-ms=t frozen foods=t fruit=t 716

bread and cake=t baking needs=t juice-sat-cord-ms=t frozen foods=t vegetables=t 720

bread and cake=t baking needs=t juice-sat-cord-ms=t milk-cream=t fruit=t 695

bread and cake=t baking needs=t juice-sat-cord-ms=t milk-cream=t vegetables=t 700

bread and cake=t baking needs=t juice-sat-cord-ms=t fruit=t vegetables=t 767

bread and cake=t baking needs=t biscuits=t sauces-gravy-pkle=t frozen foods=t 701

bread and cake=t baking needs=t biscuits=t frozen foods=t party snack foods=t 750

bread and cake=t baking needs=t biscuits=t frozen foods=t tissues-paper prd=t 729

bread and cake=t baking needs=t biscuits=t frozen foods=t milk-cream=t 824

bread and cake=t baking needs=t biscuits=t frozen foods=t margarine=t 759

bread and cake=t baking needs=t biscuits=t frozen foods=t fruit=t 854

bread and cake=t baking needs=t biscuits=t frozen foods=t vegetables=t 848

bread and cake=t baking needs=t biscuits=t frozen foods=t total=high 742

bread and cake=t baking needs=t biscuits=t party snack foods=t fruit=t 720

bread and cake=t baking needs=t biscuits=t party snack foods=t vegetables=t 709

bread and cake=t baking needs=t biscuits=t tissues-paper prd=t fruit=t 704

bread and cake=t baking needs=t biscuits=t tissues-paper prd=t vegetables=t 706

bread and cake=t baking needs=t biscuits=t milk-cream=t margarine=t 706

bread and cake=t baking needs=t biscuits=t milk-cream=t fruit=t 816

bread and cake=t baking needs=t biscuits=t milk-cream=t vegetables=t 796

bread and cake=t baking needs=t biscuits=t margarine=t fruit=t 731

bread and cake=t baking needs=t biscuits=t margarine=t vegetables=t 729

bread and cake=t baking needs=t biscuits=t fruit=t vegetables=t 896

bread and cake=t baking needs=t biscuits=t fruit=t total=high 696

bread and cake=t baking needs=t biscuits=t vegetables=t total=high 701

bread and cake=t baking needs=t sauces-gravy-pkle=t frozen foods=t vegetables=t 700

bread and cake=t baking needs=t sauces-gravy-pkle=t fruit=t vegetables=t 747

bread and cake=t baking needs=t frozen foods=t party snack foods=t fruit=t 701

bread and cake=t baking needs=t frozen foods=t party snack foods=t vegetables=t 700

bread and cake=t baking needs=t frozen foods=t tissues-paper prd=t milk-cream=t 700

bread and cake=t baking needs=t frozen foods=t tissues-paper prd=t fruit=t 717

bread and cake=t baking needs=t frozen foods=t tissues-paper prd=t vegetables=t 736

bread and cake=t baking needs=t frozen foods=t milk-cream=t margarine=t 722

bread and cake=t baking needs=t frozen foods=t milk-cream=t fruit=t 828

bread and cake=t baking needs=t frozen foods=t milk-cream=t vegetables=t 834

bread and cake=t baking needs=t frozen foods=t margarine=t fruit=t 720

bread and cake=t baking needs=t frozen foods=t margarine=t vegetables=t 743

bread and cake=t baking needs=t frozen foods=t fruit=t vegetables=t 910

bread and cake=t baking needs=t frozen foods=t fruit=t total=high 705

bread and cake=t baking needs=t frozen foods=t vegetables=t total=high 721

bread and cake=t baking needs=t party snack foods=t fruit=t vegetables=t 748

bread and cake=t baking needs=t tissues-paper prd=t milk-cream=t fruit=t 721

bread and cake=t baking needs=t tissues-paper prd=t milk-cream=t vegetables=t 727

bread and cake=t baking needs=t tissues-paper prd=t fruit=t vegetables=t 792

bread and cake=t baking needs=t milk-cream=t margarine=t fruit=t 738

bread and cake=t baking needs=t milk-cream=t margarine=t vegetables=t 754

bread and cake=t baking needs=t milk-cream=t fruit=t vegetables=t 939

bread and cake=t baking needs=t margarine=t fruit=t vegetables=t 814

bread and cake=t baking needs=t fruit=t vegetables=t total=high 752

bread and cake=t juice-sat-cord-ms=t biscuits=t frozen foods=t party snack foods=t 701

bread and cake=t juice-sat-cord-ms=t biscuits=t frozen foods=t fruit=t 758

bread and cake=t juice-sat-cord-ms=t biscuits=t frozen foods=t vegetables=t 735

bread and cake=t juice-sat-cord-ms=t biscuits=t milk-cream=t fruit=t 699

bread and cake=t juice-sat-cord-ms=t biscuits=t fruit=t vegetables=t 778

bread and cake=t juice-sat-cord-ms=t frozen foods=t milk-cream=t fruit=t 712

bread and cake=t juice-sat-cord-ms=t frozen foods=t milk-cream=t vegetables=t 702

bread and cake=t juice-sat-cord-ms=t frozen foods=t fruit=t vegetables=t 790

bread and cake=t juice-sat-cord-ms=t milk-cream=t fruit=t vegetables=t 783

bread and cake=t biscuits=t sauces-gravy-pkle=t frozen foods=t fruit=t 698

bread and cake=t biscuits=t sauces-gravy-pkle=t frozen foods=t vegetables=t 708

bread and cake=t biscuits=t sauces-gravy-pkle=t fruit=t vegetables=t 722

bread and cake=t biscuits=t frozen foods=t party snack foods=t milk-cream=t 711

bread and cake=t biscuits=t frozen foods=t party snack foods=t fruit=t 771

bread and cake=t biscuits=t frozen foods=t party snack foods=t vegetables=t 748

bread and cake=t biscuits=t frozen foods=t tissues-paper prd=t fruit=t 717

bread and cake=t biscuits=t frozen foods=t tissues-paper prd=t vegetables=t 707

bread and cake=t biscuits=t frozen foods=t milk-cream=t margarine=t 695

bread and cake=t biscuits=t frozen foods=t milk-cream=t fruit=t 840

bread and cake=t biscuits=t frozen foods=t milk-cream=t vegetables=t 819

bread and cake=t biscuits=t frozen foods=t margarine=t fruit=t 722

bread and cake=t biscuits=t frozen foods=t margarine=t vegetables=t 720

bread and cake=t biscuits=t frozen foods=t fruit=t vegetables=t 929

bread and cake=t biscuits=t frozen foods=t fruit=t total=high 723

bread and cake=t biscuits=t frozen foods=t vegetables=t total=high 725

bread and cake=t biscuits=t party snack foods=t milk-cream=t fruit=t 718

bread and cake=t biscuits=t party snack foods=t fruit=t vegetables=t 798

bread and cake=t biscuits=t tissues-paper prd=t fruit=t vegetables=t 752

bread and cake=t biscuits=t milk-cream=t fruit=t vegetables=t 892

bread and cake=t biscuits=t margarine=t fruit=t vegetables=t 766

bread and cake=t biscuits=t fruit=t vegetables=t total=high 746

bread and cake=t sauces-gravy-pkle=t frozen foods=t fruit=t vegetables=t 757

bread and cake=t sauces-gravy-pkle=t milk-cream=t fruit=t vegetables=t 744

bread and cake=t frozen foods=t party snack foods=t milk-cream=t fruit=t 709

bread and cake=t frozen foods=t party snack foods=t fruit=t vegetables=t 778

bread and cake=t frozen foods=t tissues-paper prd=t milk-cream=t fruit=t 706

bread and cake=t frozen foods=t tissues-paper prd=t milk-cream=t vegetables=t 704

bread and cake=t frozen foods=t tissues-paper prd=t fruit=t vegetables=t 780

bread and cake=t frozen foods=t milk-cream=t fruit=t vegetables=t 922

bread and cake=t frozen foods=t margarine=t fruit=t vegetables=t 754

bread and cake=t frozen foods=t fruit=t vegetables=t total=high 757

bread and cake=t party snack foods=t milk-cream=t fruit=t vegetables=t 746

bread and cake=t tissues-paper prd=t milk-cream=t fruit=t vegetables=t 774

bread and cake=t milk-cream=t margarine=t fruit=t vegetables=t 774

bread and cake=t milk-cream=t fruit=t vegetables=t total=high 725

baking needs=t biscuits=t frozen foods=t milk-cream=t fruit=t 715

baking needs=t biscuits=t frozen foods=t milk-cream=t vegetables=t 705

baking needs=t biscuits=t frozen foods=t fruit=t vegetables=t 796

baking needs=t biscuits=t milk-cream=t fruit=t vegetables=t 753

baking needs=t frozen foods=t milk-cream=t fruit=t vegetables=t 778

juice-sat-cord-ms=t biscuits=t frozen foods=t fruit=t vegetables=t 698

biscuits=t frozen foods=t party snack foods=t fruit=t vegetables=t 707

biscuits=t frozen foods=t milk-cream=t fruit=t vegetables=t 760

Size of set of large itemsets L(6): 1

Large Itemsets L(6):

bread and cake=t baking needs=t biscuits=t frozen foods=t fruit=t vegetables=t 716

Best rules found:

1. biscuits=t frozen foods=t fruit=t total=high 788 ==> bread and cake=t 723 <conf:(0.92)> lift:(1.27) lev:(0.03) [155] conv:(3.35)

2. baking needs=t biscuits=t fruit=t total=high 760 ==> bread and cake=t 696 <conf:(0.92)> lift:(1.27) lev:(0.03) [149] conv:(3.28)

3. baking needs=t frozen foods=t fruit=t total=high 770 ==> bread and cake=t 705 <conf:(0.92)> lift:(1.27) lev:(0.03) [150] conv:(3.27)

4. biscuits=t fruit=t vegetables=t total=high 815 ==> bread and cake=t 746 <conf:(0.92)> lift:(1.27) lev:(0.03) [159] conv:(3.26)

5. party snack foods=t fruit=t total=high 854 ==> bread and cake=t 779 <conf:(0.91)> lift:(1.27) lev:(0.04) [164] conv:(3.15)

6. biscuits=t frozen foods=t vegetables=t total=high 797 ==> bread and cake=t 725 <conf:(0.91)> lift:(1.26) lev:(0.03) [151] conv:(3.06)

7. baking needs=t biscuits=t vegetables=t total=high 772 ==> bread and cake=t 701 <conf:(0.91)> lift:(1.26) lev:(0.03) [145] conv:(3.01)

8. biscuits=t fruit=t total=high 954 ==> bread and cake=t 866 <conf:(0.91)> lift:(1.26) lev:(0.04) [179] conv:(3)

9. frozen foods=t fruit=t vegetables=t total=high 834 ==> bread and cake=t 757 <conf:(0.91)> lift:(1.26) lev:(0.03) [156] conv:(3)

10. frozen foods=t fruit=t total=high 969 ==> bread and cake=t 877 <conf:(0.91)> lift:(1.26) lev:(0.04) [179] conv:(2.92)

=== Run information ===

Scheme: weka.associations.Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -A -c 59

Relation: supermarket

Instances: 4627

Attributes: 217

[list of attributes omitted]

=== Associator model (full training set) ===

Apriori

=======

Minimum support: 0.1 (463 instances)

Minimum metric <confidence>: 0.9

Number of cycles performed: 18

Generated sets of large itemsets:

Size of set of large itemsets L(1): 36

Size of set of large itemsets L(2): 239

Size of set of large itemsets L(3): 426

Size of set of large itemsets L(4): 292

Size of set of large itemsets L(5): 21

Best rules found: