

DMW_Assign3

September 2, 2020

```
[66]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import squarify
import seaborn as sns
# plt.style.use('fivethirtyeight')

from mlxtend.frequent_patterns import apriori
from mlxtend.frequent_patterns import association_rules
from mlxtend.preprocessing import TransactionEncoder
import warnings
pd.set_option('display.max_columns',15)
pd.set_option('display.max_rows', 500)
pd.set_option('display.width', 1000)
```

```
[78]: data = pd.read_csv('~Downloads/Market_Basket_Optimisation.csv',header=None)
# data.shape
print(data.head())
```

	0	1	2	3	4	17
5	6	...	13	14	15	16
18	19					
0	shrimp	almonds	avocado	vegetables mix	green grapes	whole
	weat flour	yams	...	salad	mineral water	salmon
	smoothie	spinach	olive oil		antioxydant juice	frozen
1	burgers	meatballs	eggs	NaN	NaN	
NaN	NaN	...	NaN	NaN	NaN	NaN
NaN	NaN					
2	chutney	NaN	NaN	NaN	NaN	
NaN	NaN	...	NaN	NaN	NaN	NaN
NaN	NaN					
3	turkey	avocado	NaN	NaN	NaN	
NaN	NaN	...	NaN	NaN	NaN	NaN
NaN	NaN					
4	mineral water	milk	energy bar	whole wheat rice	green tea	
NaN	NaN	...	NaN	NaN	NaN	NaN
NaN	NaN					

[5 rows x 20 columns]

```
[68]: trans = []
      for i in range(0, 7501):
          trans.append([str(data.values[i,j]) for j in range(0, 20)])

      trans = np.array(trans)

      print(trans)
```

```
[['shrimp' 'almonds' 'avocado' ... 'frozen smoothie' 'spinach'
  'olive oil']
 ['burgers' 'meatballs' 'eggs' ... 'nan' 'nan' 'nan']
 ['chutney' 'nan' 'nan' ... 'nan' 'nan' 'nan']
 ...
 ['chicken' 'nan' 'nan' ... 'nan' 'nan' 'nan']
 ['escalope' 'green tea' 'nan' ... 'nan' 'nan' 'nan']
 ['eggs' 'frozen smoothie' 'yogurt cake' ... 'nan' 'nan' 'nan']]
```

```
[69]: te = TransactionEncoder()
      data = te.fit_transform(trans)
      data = pd.DataFrame(data, columns = te.columns_)

      print(data)
```

```
      asparagus  almonds  antioxydant  juice  asparagus  avocado  babies food
bacon  ...  white wine  whole weat  flour  whole wheat  pasta  whole wheat  rice
yams  yogurt cake  zucchini
0      False      True      True      False      True      False
False  ...      False      True      False
True      False      False
1      False      False      False      False      False      False
False  ...      False      False      False
False      False      False
2      False      False      False      False      False      False
False  ...      False      False      False
False      False      False
3      False      False      False      False      True      False
False  ...      False      False      False
False      False      False
4      False      False      False      False      False      False
False  ...      False      False      False
False      False      False
...      ...      ...      ...      ...      ...
...  ...      ...      ...      ...      ...
...      ...      ...
7496      False      False      False      False      False      False
False  ...      False      False      False      False
```

False	False	False				
7497	False	False	False	False	False	False
False ...	False		False	False		False
False	False	False				
7498	False	False	False	False	False	False
False ...	False		False	False		False
False	False	False				
7499	False	False	False	False	False	False
False ...	False		False	False		False
False	False	False				
7500	False	False	False	False	False	False
False ...	False		False	False		False
False	True	False				

[7501 rows x 121 columns]

```
[70]: list(data.columns)
```

```
[70]: [' asparagus',
      'almonds',
      'antioxydant juice',
      'asparagus',
      'avocado',
      'babies food',
      'bacon',
      'barbecue sauce',
      'black tea',
      'blueberries',
      'body spray',
      'bramble',
      'brownies',
      'bug spray',
      'burger sauce',
      'burgers',
      'butter',
      'cake',
      'candy bars',
      'carrots',
      'cauliflower',
      'cereals',
      'champagne',
      'chicken',
      'chili',
      'chocolate',
      'chocolate bread',
      'chutney',
      'cider',
```

'clothes accessories',
'cookies',
'cooking oil',
'corn',
'cottage cheese',
'cream',
'dessert wine',
'eggplant',
'eggs',
'energy bar',
'energy drink',
'escalope',
'extra dark chocolate',
'flax seed',
'french fries',
'french wine',
'fresh bread',
'fresh tuna',
'fromage blanc',
'frozen smoothie',
'frozen vegetables',
'gluten free bar',
'grated cheese',
'green beans',
'green grapes',
'green tea',
'ground beef',
'gums',
'ham',
'hand protein bar',
'herb & pepper',
'honey',
'hot dogs',
'ketchup',
'light cream',
'light mayo',
'low fat yogurt',
'magazines',
'mashed potato',
'mayonnaise',
'meatballs',
'melons',
'milk',
'mineral water',
'mint',
'mint green tea',
'muffins',

'mushroom cream sauce',
'nan',
'napkins',
'nonfat milk',
'oatmeal',
'oil',
'olive oil',
'pancakes',
'parmesan cheese',
'pasta',
'pepper',
'pet food',
'pickles',
'protein bar',
'red wine',
'rice',
'salad',
'salmon',
'salt',
'sandwich',
'shallot',
'shampoo',
'shrimp',
'soda',
'soup',
'spaghetti',
'sparkling water',
'spinach',
'strawberries',
'strong cheese',
'tea',
'tomato juice',
'tomato sauce',
'tomatoes',
'toothpaste',
'turkey',
'vegetables mix',
'water spray',
'white wine',
'whole weat flour',
'whole wheat pasta',
'whole wheat rice',
'yams',
'yogurt cake',
'zucchini']

```
[71]: warnings.filterwarnings('ignore')

data = data.loc[:, data.columns[5:55]]

data.shape
```

```
[71]: (7501, 50)
```

```
[72]: print(apriori(data, min_support = 0.005, use_colnames = True))
```

	support	itemsets
0	0.008666	(bacon)
1	0.010799	(barbecue sauce)
2	0.014265	(black tea)
3	0.009199	(blueberries)
4	0.011465	(body spray)
5	0.033729	(brownies)
6	0.008666	(bug spray)
7	0.005866	(burger sauce)
8	0.087188	(burgers)
9	0.030129	(butter)
10	0.081056	(cake)
11	0.009732	(candy bars)
12	0.015331	(carrots)
13	0.025730	(cereals)
14	0.046794	(champagne)
15	0.059992	(chicken)
16	0.006133	(chili)
17	0.163845	(chocolate)
18	0.010532	(cider)
19	0.008399	(clothes accessories)
20	0.080389	(cookies)
21	0.051060	(cooking oil)
22	0.031862	(cottage cheese)
23	0.013198	(eggplant)
24	0.179709	(eggs)
25	0.027063	(energy bar)
26	0.026663	(energy drink)
27	0.079323	(escalope)
28	0.011998	(extra dark chocolate)
29	0.009065	(flax seed)
30	0.170911	(french fries)
31	0.022530	(french wine)
32	0.043061	(fresh bread)
33	0.022264	(fresh tuna)
34	0.013598	(fromage blanc)
35	0.063325	(frozen smoothie)

36	0.095321	(frozen vegetables)
37	0.006932	(gluten free bar)
38	0.052393	(grated cheese)
39	0.008666	(green beans)
40	0.009065	(green grapes)
41	0.132116	(green tea)
42	0.005466	(brownies, cake)
43	0.007332	(eggs, brownies)
44	0.007866	(french fries, brownies)
45	0.006666	(green tea, brownies)
46	0.011465	(burgers, cake)
47	0.006266	(chicken, burgers)
48	0.017064	(chocolate, burgers)
49	0.005599	(burgers, cookies)
50	0.005733	(cooking oil, burgers)
51	0.028796	(eggs, burgers)
52	0.007066	(burgers, escalope)
53	0.021997	(french fries, burgers)
54	0.007199	(burgers, frozen smoothie)
55	0.010532	(frozen vegetables, burgers)
56	0.005466	(burgers, grated cheese)
57	0.017464	(burgers, green tea)
58	0.008266	(chocolate, butter)
59	0.006133	(eggs, butter)
60	0.006133	(french fries, butter)
61	0.007332	(green tea, butter)
62	0.006532	(chicken, cake)
63	0.013598	(chocolate, cake)
64	0.019064	(eggs, cake)
65	0.017864	(french fries, cake)
66	0.006399	(frozen smoothie, cake)
67	0.010265	(frozen vegetables, cake)
68	0.014131	(green tea, cake)
69	0.005599	(chocolate, cereals)
70	0.006532	(green tea, cereals)
71	0.011598	(chocolate, champagne)
72	0.006666	(eggs, champagne)
73	0.009332	(french fries, champagne)
74	0.008266	(champagne, green tea)
75	0.014665	(chocolate, chicken)
76	0.006799	(cooking oil, chicken)
77	0.014398	(eggs, chicken)
78	0.011065	(french fries, chicken)
79	0.005199	(fresh bread, chicken)
80	0.006666	(chicken, frozen smoothie)
81	0.008932	(frozen vegetables, chicken)
82	0.011865	(chicken, green tea)
83	0.010399	(chocolate, cookies)

84	0.013598	(chocolate, cooking oil)
85	0.033196	(eggs, chocolate)
86	0.017598	(chocolate, escalope)
87	0.034395	(chocolate, french fries)
88	0.005199	(chocolate, french wine)
89	0.009465	(chocolate, fresh bread)
90	0.014931	(chocolate, frozen smoothie)
91	0.022930	(chocolate, frozen vegetables)
92	0.010932	(chocolate, grated cheese)
93	0.023464	(chocolate, green tea)
94	0.010532	(eggs, cookies)
95	0.013332	(french fries, cookies)
96	0.011998	(green tea, cookies)
97	0.011732	(eggs, cooking oil)
98	0.005333	(cooking oil, escalope)
99	0.007866	(french fries, cooking oil)
100	0.006799	(frozen vegetables, cooking oil)
101	0.005733	(cooking oil, grated cheese)
102	0.007066	(cooking oil, green tea)
103	0.005599	(eggs, cottage cheese)
104	0.005866	(french fries, cottage cheese)
105	0.006399	(cottage cheese, green tea)
106	0.005199	(eggs, energy bar)
107	0.011065	(eggs, escalope)
108	0.036395	(eggs, french fries)
109	0.005999	(eggs, french wine)
110	0.008666	(eggs, fresh bread)
111	0.005866	(eggs, fresh tuna)
112	0.011065	(eggs, frozen smoothie)
113	0.021730	(eggs, frozen vegetables)
114	0.009065	(eggs, grated cheese)
115	0.025463	(eggs, green tea)
116	0.006133	(french fries, energy drink)
117	0.016398	(french fries, escalope)
118	0.005466	(frozen smoothie, escalope)
119	0.007599	(frozen vegetables, escalope)
120	0.008932	(green tea, escalope)
121	0.008266	(french fries, fresh bread)
122	0.014531	(french fries, frozen smoothie)
123	0.019064	(french fries, frozen vegetables)
124	0.010399	(french fries, grated cheese)
125	0.028530	(french fries, green tea)
126	0.006799	(frozen vegetables, fresh bread)
127	0.006399	(fresh bread, green tea)
128	0.009999	(frozen vegetables, frozen smoothie)
129	0.011199	(green tea, frozen smoothie)
130	0.006799	(frozen vegetables, grated cheese)
131	0.014398	(frozen vegetables, green tea)


```

132 0.007866 (green tea, grated cheese)
133 0.005466 (eggs, chocolate, burgers)
134 0.009065 (eggs, french fries, burgers)
135 0.005999 (eggs, burgers, green tea)
136 0.005466 (french fries, burgers, green tea)
137 0.008399 (eggs, chocolate, french fries)
138 0.005733 (eggs, chocolate, frozen vegetables)
139 0.005466 (eggs, chocolate, green tea)
140 0.005199 (chocolate, french fries, escalope)
141 0.005599 (chocolate, frozen vegetables, french fries)
142 0.005199 (chocolate, french fries, green tea)
143 0.005199 (eggs, frozen vegetables, french fries)
144 0.007066 (eggs, french fries, green tea)

```

```

[73]: frequent_itemsets = apriori(data, min_support = 0.005, use_colnames=True)
      frequent_itemsets['length'] = frequent_itemsets['itemsets'].apply(lambda x: len(x))
      frequent_itemsets

```

```

[73]:      support      itemsets  length
0    0.008666      (bacon)      1
1    0.010799 (barbecue sauce)      1
2    0.014265    (black tea)      1
3    0.009199 (blueberries)      1
4    0.011465    (body spray)      1
5    0.033729    (brownies)      1
6    0.008666    (bug spray)      1
7    0.005866 (burger sauce)      1
8    0.087188    (burgers)      1
9    0.030129    (butter)      1
10   0.081056    (cake)      1
11   0.009732 (candy bars)      1
12   0.015331    (carrots)      1
13   0.025730    (cereals)      1
14   0.046794    (champagne)      1
15   0.059992    (chicken)      1
16   0.006133    (chili)      1
17   0.163845    (chocolate)      1
18   0.010532    (cider)      1
19   0.008399 (clothes accessories)      1
20   0.080389    (cookies)      1
21   0.051060    (cooking oil)      1
22   0.031862 (cottage cheese)      1
23   0.013198    (eggplant)      1
24   0.179709    (eggs)      1
25   0.027063    (energy bar)      1
26   0.026663 (energy drink)      1

```

27	0.079323	(escalope)	1
28	0.011998	(extra dark chocolate)	1
29	0.009065	(flax seed)	1
30	0.170911	(french fries)	1
31	0.022530	(french wine)	1
32	0.043061	(fresh bread)	1
33	0.022264	(fresh tuna)	1
34	0.013598	(fromage blanc)	1
35	0.063325	(frozen smoothie)	1
36	0.095321	(frozen vegetables)	1
37	0.006932	(gluten free bar)	1
38	0.052393	(grated cheese)	1
39	0.008666	(green beans)	1
40	0.009065	(green grapes)	1
41	0.132116	(green tea)	1
42	0.005466	(brownies, cake)	2
43	0.007332	(eggs, brownies)	2
44	0.007866	(french fries, brownies)	2
45	0.006666	(green tea, brownies)	2
46	0.011465	(burgers, cake)	2
47	0.006266	(chicken, burgers)	2
48	0.017064	(chocolate, burgers)	2
49	0.005599	(burgers, cookies)	2
50	0.005733	(cooking oil, burgers)	2
51	0.028796	(eggs, burgers)	2
52	0.007066	(burgers, escalope)	2
53	0.021997	(french fries, burgers)	2
54	0.007199	(burgers, frozen smoothie)	2
55	0.010532	(frozen vegetables, burgers)	2
56	0.005466	(burgers, grated cheese)	2
57	0.017464	(burgers, green tea)	2
58	0.008266	(chocolate, butter)	2
59	0.006133	(eggs, butter)	2
60	0.006133	(french fries, butter)	2
61	0.007332	(green tea, butter)	2
62	0.006532	(chicken, cake)	2
63	0.013598	(chocolate, cake)	2
64	0.019064	(eggs, cake)	2
65	0.017864	(french fries, cake)	2
66	0.006399	(frozen smoothie, cake)	2
67	0.010265	(frozen vegetables, cake)	2
68	0.014131	(green tea, cake)	2
69	0.005599	(chocolate, cereals)	2
70	0.006532	(green tea, cereals)	2
71	0.011598	(chocolate, champagne)	2
72	0.006666	(eggs, champagne)	2
73	0.009332	(french fries, champagne)	2

74	0.008266	(champagne, green tea)	2
75	0.014665	(chocolate, chicken)	2
76	0.006799	(cooking oil, chicken)	2
77	0.014398	(eggs, chicken)	2
78	0.011065	(french fries, chicken)	2
79	0.005199	(fresh bread, chicken)	2
80	0.006666	(chicken, frozen smoothie)	2
81	0.008932	(frozen vegetables, chicken)	2
82	0.011865	(chicken, green tea)	2
83	0.010399	(chocolate, cookies)	2
84	0.013598	(chocolate, cooking oil)	2
85	0.033196	(eggs, chocolate)	2
86	0.017598	(chocolate, escalope)	2
87	0.034395	(chocolate, french fries)	2
88	0.005199	(chocolate, french wine)	2
89	0.009465	(chocolate, fresh bread)	2
90	0.014931	(chocolate, frozen smoothie)	2
91	0.022930	(chocolate, frozen vegetables)	2
92	0.010932	(chocolate, grated cheese)	2
93	0.023464	(chocolate, green tea)	2
94	0.010532	(eggs, cookies)	2
95	0.013332	(french fries, cookies)	2
96	0.011998	(green tea, cookies)	2
97	0.011732	(eggs, cooking oil)	2
98	0.005333	(cooking oil, escalope)	2
99	0.007866	(french fries, cooking oil)	2
100	0.006799	(frozen vegetables, cooking oil)	2
101	0.005733	(cooking oil, grated cheese)	2
102	0.007066	(cooking oil, green tea)	2
103	0.005599	(eggs, cottage cheese)	2
104	0.005866	(french fries, cottage cheese)	2
105	0.006399	(cottage cheese, green tea)	2
106	0.005199	(eggs, energy bar)	2
107	0.011065	(eggs, escalope)	2
108	0.036395	(eggs, french fries)	2
109	0.005999	(eggs, french wine)	2
110	0.008666	(eggs, fresh bread)	2
111	0.005866	(eggs, fresh tuna)	2
112	0.011065	(eggs, frozen smoothie)	2
113	0.021730	(eggs, frozen vegetables)	2
114	0.009065	(eggs, grated cheese)	2
115	0.025463	(eggs, green tea)	2
116	0.006133	(french fries, energy drink)	2
117	0.016398	(french fries, escalope)	2
118	0.005466	(frozen smoothie, escalope)	2
119	0.007599	(frozen vegetables, escalope)	2
120	0.008932	(green tea, escalope)	2

121	0.008266	(french fries, fresh bread)	2
122	0.014531	(french fries, frozen smoothie)	2
123	0.019064	(french fries, frozen vegetables)	2
124	0.010399	(french fries, grated cheese)	2
125	0.028530	(french fries, green tea)	2
126	0.006799	(frozen vegetables, fresh bread)	2
127	0.006399	(fresh bread, green tea)	2
128	0.009999	(frozen vegetables, frozen smoothie)	2
129	0.011199	(green tea, frozen smoothie)	2
130	0.006799	(frozen vegetables, grated cheese)	2
131	0.014398	(frozen vegetables, green tea)	2
132	0.007866	(green tea, grated cheese)	2
133	0.005466	(eggs, chocolate, burgers)	3
134	0.009065	(eggs, french fries, burgers)	3
135	0.005999	(eggs, burgers, green tea)	3
136	0.005466	(french fries, burgers, green tea)	3
137	0.008399	(eggs, chocolate, french fries)	3
138	0.005733	(eggs, chocolate, frozen vegetables)	3
139	0.005466	(eggs, chocolate, green tea)	3
140	0.005199	(chocolate, french fries, escalope)	3
141	0.005599	(chocolate, frozen vegetables, french fries)	3
142	0.005199	(chocolate, french fries, green tea)	3
143	0.005199	(eggs, frozen vegetables, french fries)	3
144	0.007066	(eggs, french fries, green tea)	3

```
[74]: frequent_itemsets[ frequent_itemsets['itemsets'] == {'chocolate'} ]
```

```
[74]:      support      itemsets  length
17  0.163845  (chocolate)         1
```

```
[75]: # pd.set_option('display.width', 1000)
rules = association_rules(frequent_itemsets, metric='lift', min_threshold=1)
print(rules)
```

		antecedents				consequents	
antecedent	support	consequent	support	support	confidence	lift	leverage
conviction							
0		(brownies)				(cake)	
0.033729		0.081056	0.005466	0.162055	1.999304	0.002732	
1.096664							
1		(cake)				(brownies)	
0.081056		0.033729	0.005466	0.067434	1.999304	0.002732	
1.036143							
2		(eggs)				(brownies)	
0.179709		0.033729	0.007332	0.040801	1.209683	0.001271	
1.007373							
3		(brownies)				(eggs)	

0.033729	0.179709	0.007332	0.217391	1.209683	0.001271
1.048149					
4	(french fries)				(brownies)
0.170911	0.033729	0.007866	0.046022	1.364466	0.002101
1.012886					
5	(brownies)				(french fries)
0.033729	0.170911	0.007866	0.233202	1.364466	0.002101
1.081235					
6	(green tea)				(brownies)
0.132116	0.033729	0.006666	0.050454	1.495874	0.002210
1.017614					
7	(brownies)				(green tea)
0.033729	0.132116	0.006666	0.197628	1.495874	0.002210
1.081649					
8	(burgers)				(cake)
0.087188	0.081056	0.011465	0.131498	1.622319	0.004398
1.058080					
9	(cake)				(burgers)
0.081056	0.087188	0.011465	0.141447	1.622319	0.004398
1.063198					
10	(chicken)				(burgers)
0.059992	0.087188	0.006266	0.104444	1.197917	0.001035
1.019269					
11	(burgers)				(chicken)
0.087188	0.059992	0.006266	0.071865	1.197917	0.001035
1.012793					
12	(chocolate)				(burgers)
0.163845	0.087188	0.017064	0.104150	1.194537	0.002779
1.018933					
13	(burgers)				(chocolate)
0.087188	0.163845	0.017064	0.195719	1.194537	0.002779
1.039630					
14	(cooking oil)				(burgers)
0.051060	0.087188	0.005733	0.112272	1.287689	0.001281
1.028255					
15	(burgers)				(cooking oil)
0.087188	0.051060	0.005733	0.065749	1.287689	0.001281
1.015723					
16	(eggs)				(burgers)
0.179709	0.087188	0.028796	0.160237	1.837830	0.013128
1.086988					
17	(burgers)				(eggs)
0.087188	0.179709	0.028796	0.330275	1.837830	0.013128
1.224818					
18	(burgers)				(escalope)
0.087188	0.079323	0.007066	0.081040	1.021646	0.000150
1.001868					
19	(escalope)				(burgers)

0.079323	0.087188	0.007066	0.089076	1.021646	0.000150
1.002072					
20	(french fries)			(burgers)	
0.170911	0.087188	0.021997	0.128705	1.476173	0.007096
1.047650					
21	(burgers)			(french fries)	
0.087188	0.170911	0.021997	0.252294	1.476173	0.007096
1.108844					
22	(burgers)			(frozen smoothie)	
0.087188	0.063325	0.007199	0.082569	1.303892	0.001678
1.020976					
23	(frozen smoothie)			(burgers)	
0.063325	0.087188	0.007199	0.113684	1.303892	0.001678
1.029894					
24	(frozen vegetables)			(burgers)	
0.095321	0.087188	0.010532	0.110490	1.267250	0.002221
1.026195					
25	(burgers)			(frozen vegetables)	
0.087188	0.095321	0.010532	0.120795	1.267250	0.002221
1.028974					
26	(burgers)			(grated cheese)	
0.087188	0.052393	0.005466	0.062691	1.196555	0.000898
1.010987					
27	(grated cheese)			(burgers)	
0.052393	0.087188	0.005466	0.104326	1.196555	0.000898
1.019133					
28	(burgers)			(green tea)	
0.087188	0.132116	0.017464	0.200306	1.516139	0.005945
1.085270					
29	(green tea)			(burgers)	
0.132116	0.087188	0.017464	0.132190	1.516139	0.005945
1.051856					
30	(chocolate)			(butter)	
0.163845	0.030129	0.008266	0.050448	1.674367	0.003329
1.021398					
31	(butter)			(chocolate)	
0.030129	0.163845	0.008266	0.274336	1.674367	0.003329
1.152263					
32	(eggs)			(butter)	
0.179709	0.030129	0.006133	0.034125	1.132605	0.000718
1.004136					
33	(butter)			(eggs)	
0.030129	0.179709	0.006133	0.203540	1.132605	0.000718
1.029920					
34	(french fries)			(butter)	
0.170911	0.030129	0.006133	0.035881	1.190914	0.000983
1.005966					
35	(butter)			(french fries)	

0.030129	0.170911	0.006133	0.203540	1.190914	0.000983
1.040968					
36	(green tea)			(butter)	
0.132116	0.030129	0.007332	0.055499	1.842043	0.003352
1.026861					
37	(butter)			(green tea)	
0.030129	0.132116	0.007332	0.243363	1.842043	0.003352
1.147028					
38	(chicken)			(cake)	
0.059992	0.081056	0.006532	0.108889	1.343381	0.001670
1.031234					
39	(cake)			(chicken)	
0.081056	0.059992	0.006532	0.080592	1.343381	0.001670
1.022406					
40	(chocolate)			(cake)	
0.163845	0.081056	0.013598	0.082994	1.023915	0.000318
1.002114					
41	(cake)			(chocolate)	
0.081056	0.163845	0.013598	0.167763	1.023915	0.000318
1.004708					
42	(eggs)			(cake)	
0.179709	0.081056	0.019064	0.106083	1.308765	0.004498
1.027997					
43	(cake)			(eggs)	
0.081056	0.179709	0.019064	0.235197	1.308765	0.004498
1.072552					
44	(french fries)			(cake)	
0.170911	0.081056	0.017864	0.104524	1.289533	0.004011
1.026208					
45	(cake)			(french fries)	
0.081056	0.170911	0.017864	0.220395	1.289533	0.004011
1.063473					
46	(frozen smoothie)			(cake)	
0.063325	0.081056	0.006399	0.101053	1.246704	0.001266
1.022245					
47	(cake)			(frozen smoothie)	
0.081056	0.063325	0.006399	0.078947	1.246704	0.001266
1.016962					
48	(frozen vegetables)			(cake)	
0.095321	0.081056	0.010265	0.107692	1.328618	0.002539
1.029851					
49	(cake)			(frozen vegetables)	
0.081056	0.095321	0.010265	0.126645	1.328618	0.002539
1.035866					
50	(green tea)			(cake)	
0.132116	0.081056	0.014131	0.106963	1.319617	0.003423
1.029010					
51	(cake)			(green tea)	

0.081056	0.132116	0.014131	0.174342	1.319617	0.003423
1.051143					
52	(chocolate)				(cereals)
0.163845	0.025730	0.005599	0.034174	1.328187	0.001384
1.008743					
53	(cereals)				(chocolate)
0.025730	0.163845	0.005599	0.217617	1.328187	0.001384
1.068728					
54	(green tea)				(cereals)
0.132116	0.025730	0.006532	0.049445	1.921694	0.003133
1.024949					
55	(cereals)				(green tea)
0.025730	0.132116	0.006532	0.253886	1.921694	0.003133
1.163206					
56	(chocolate)				(champagne)
0.163845	0.046794	0.011598	0.070789	1.512793	0.003932
1.025824					
57	(champagne)				(chocolate)
0.046794	0.163845	0.011598	0.247863	1.512793	0.003932
1.111706					
58	(french fries)				(champagne)
0.170911	0.046794	0.009332	0.054602	1.166869	0.001335
1.008259					
59	(champagne)				(french fries)
0.046794	0.170911	0.009332	0.199430	1.166869	0.001335
1.035624					
60	(champagne)				(green tea)
0.046794	0.132116	0.008266	0.176638	1.336996	0.002083
1.054074					
61	(green tea)				(champagne)
0.132116	0.046794	0.008266	0.062563	1.336996	0.002083
1.016822					
62	(chocolate)				(chicken)
0.163845	0.059992	0.014665	0.089504	1.491927	0.004835
1.032413					
63	(chicken)				(chocolate)
0.059992	0.163845	0.014665	0.244444	1.491927	0.004835
1.106676					
64	(cooking oil)				(chicken)
0.051060	0.059992	0.006799	0.133159	2.219617	0.003736
1.084407					
65	(chicken)				(cooking oil)
0.059992	0.051060	0.006799	0.113333	2.219617	0.003736
1.070233					
66	(eggs)				(chicken)
0.179709	0.059992	0.014398	0.080119	1.335490	0.003617
1.021880					
67	(chicken)				(eggs)

0.059992	0.179709	0.014398	0.240000	1.335490	0.003617
1.079330					
68	(french fries)				(chicken)
0.170911	0.059992	0.011065	0.064743	1.079187	0.000812
1.005079					
69	(chicken)				(french fries)
0.059992	0.170911	0.011065	0.184444	1.079187	0.000812
1.016595					
70	(fresh bread)				(chicken)
0.043061	0.059992	0.005199	0.120743	2.012652	0.002616
1.069094					
71	(chicken)				(fresh bread)
0.059992	0.043061	0.005199	0.086667	2.012652	0.002616
1.047744					
72	(chicken)				(frozen smoothie)
0.059992	0.063325	0.006666	0.111111	1.754620	0.002867
1.053759					
73	(frozen smoothie)				(chicken)
0.063325	0.059992	0.006666	0.105263	1.754620	0.002867
1.050597					
74	(frozen vegetables)				(chicken)
0.095321	0.059992	0.008932	0.093706	1.561980	0.003214
1.037200					
75	(chicken)				(frozen vegetables)
0.059992	0.095321	0.008932	0.148889	1.561980	0.003214
1.062939					
76	(chicken)				(green tea)
0.059992	0.132116	0.011865	0.197778	1.497004	0.003939
1.081850					
77	(green tea)				(chicken)
0.132116	0.059992	0.011865	0.089808	1.497004	0.003939
1.032758					
78	(chocolate)				(cooking oil)
0.163845	0.051060	0.013598	0.082994	1.625432	0.005232
1.034825					
79	(cooking oil)				(chocolate)
0.051060	0.163845	0.013598	0.266319	1.625432	0.005232
1.139671					
80	(eggs)				(chocolate)
0.179709	0.163845	0.033196	0.184718	1.127397	0.003751
1.025603					
81	(chocolate)				(eggs)
0.163845	0.179709	0.033196	0.202604	1.127397	0.003751
1.028711					
82	(chocolate)				(escalope)
0.163845	0.079323	0.017598	0.107404	1.354017	0.004601
1.031461					
83	(escalope)				(chocolate)

0.079323	0.163845	0.017598	0.221849	1.354017	0.004601
1.074541					
84	(chocolate)			(french fries)	
0.163845	0.170911	0.034395	0.209927	1.228284	0.006393
1.049383					
85	(french fries)			(chocolate)	
0.170911	0.163845	0.034395	0.201248	1.228284	0.006393
1.046827					
86	(chocolate)			(french wine)	
0.163845	0.022530	0.005199	0.031733	1.408462	0.001508
1.009504					
87	(french wine)			(chocolate)	
0.022530	0.163845	0.005199	0.230769	1.408462	0.001508
1.087002					
88	(chocolate)			(fresh bread)	
0.163845	0.043061	0.009465	0.057771	1.341600	0.002410
1.015612					
89	(fresh bread)			(chocolate)	
0.043061	0.163845	0.009465	0.219814	1.341600	0.002410
1.071739					
90	(chocolate)			(frozen smoothie)	
0.163845	0.063325	0.014931	0.091131	1.439102	0.004556
1.030594					
91	(frozen smoothie)			(chocolate)	
0.063325	0.163845	0.014931	0.235789	1.439102	0.004556
1.094142					
92	(chocolate)			(frozen vegetables)	
0.163845	0.095321	0.022930	0.139951	1.468215	0.007312
1.051893					
93	(frozen vegetables)			(chocolate)	
0.095321	0.163845	0.022930	0.240559	1.468215	0.007312
1.101015					
94	(chocolate)			(grated cheese)	
0.163845	0.052393	0.010932	0.066721	1.273470	0.002348
1.015352					
95	(grated cheese)			(chocolate)	
0.052393	0.163845	0.010932	0.208651	1.273470	0.002348
1.056621					
96	(chocolate)			(green tea)	
0.163845	0.132116	0.023464	0.143206	1.083943	0.001817
1.012944					
97	(green tea)			(chocolate)	
0.132116	0.163845	0.023464	0.177598	1.083943	0.001817
1.016724					
98	(green tea)			(cookies)	
0.132116	0.080389	0.011998	0.090817	1.129720	0.001378
1.011470					
99	(cookies)			(green tea)	

0.080389	0.132116	0.011998	0.149254	1.129720	0.001378
1.020145					
100		(eggs)		(cooking oil)	
0.179709	0.051060	0.011732	0.065282	1.278537	0.002556
1.015215					
101		(cooking oil)		(eggs)	
0.051060	0.179709	0.011732	0.229765	1.278537	0.002556
1.064987					
102		(cooking oil)		(escalope)	
0.051060	0.079323	0.005333	0.104439	1.316629	0.001282
1.028045					
103		(escalope)		(cooking oil)	
0.079323	0.051060	0.005333	0.067227	1.316629	0.001282
1.017332					
104	(frozen vegetables)			(cooking oil)	
0.095321	0.051060	0.006799	0.071329	1.396962	0.001932
1.021826					
105		(cooking oil)		(frozen vegetables)	
0.051060	0.095321	0.006799	0.133159	1.396962	0.001932
1.043651					
106		(cooking oil)		(grated cheese)	
0.051060	0.052393	0.005733	0.112272	2.142872	0.003057
1.067451					
107		(grated cheese)		(cooking oil)	
0.052393	0.051060	0.005733	0.109415	2.142872	0.003057
1.065524					
108		(cooking oil)		(green tea)	
0.051060	0.132116	0.007066	0.138381	1.047424	0.000320
1.007272					
109		(green tea)		(cooking oil)	
0.132116	0.051060	0.007066	0.053481	1.047424	0.000320
1.002558					
110		(french fries)		(cottage cheese)	
0.170911	0.031862	0.005866	0.034321	1.077174	0.000420
1.002546					
111		(cottage cheese)		(french fries)	
0.031862	0.170911	0.005866	0.184100	1.077174	0.000420
1.016166					
112		(cottage cheese)		(green tea)	
0.031862	0.132116	0.006399	0.200837	1.520158	0.002190
1.085991					
113		(green tea)		(cottage cheese)	
0.132116	0.031862	0.006399	0.048436	1.520158	0.002190
1.017417					
114		(eggs)		(energy bar)	
0.179709	0.027063	0.005199	0.028932	1.069050	0.000336
1.001924					
115		(energy bar)		(eggs)	

0.027063	0.179709	0.005199	0.192118	1.069050	0.000336
1.015360					
116		(eggs)		(french fries)	
0.179709	0.170911	0.036395	0.202522	1.184961	0.005681
1.039640					
117		(french fries)		(eggs)	
0.170911	0.179709	0.036395	0.212949	1.184961	0.005681
1.042232					
118		(eggs)		(french wine)	
0.179709	0.022530	0.005999	0.033383	1.481682	0.001950
1.011227					
119		(french wine)		(eggs)	
0.022530	0.179709	0.005999	0.266272	1.481682	0.001950
1.117977					
120		(eggs)		(fresh bread)	
0.179709	0.043061	0.008666	0.048220	1.119799	0.000927
1.005420					
121		(fresh bread)		(eggs)	
0.043061	0.179709	0.008666	0.201238	1.119799	0.000927
1.026953					
122		(eggs)		(fresh tuna)	
0.179709	0.022264	0.005866	0.032641	1.466106	0.001865
1.010727					
123		(fresh tuna)		(eggs)	
0.022264	0.179709	0.005866	0.263473	1.466106	0.001865
1.113728					
124		(eggs)		(frozen vegetables)	
0.179709	0.095321	0.021730	0.120920	1.268559	0.004600
1.029121					
125	(frozen vegetables)			(eggs)	
0.095321	0.179709	0.021730	0.227972	1.268559	0.004600
1.062514					
126		(eggs)		(green tea)	
0.179709	0.132116	0.025463	0.141691	1.072479	0.001721
1.011156					
127		(green tea)		(eggs)	
0.132116	0.179709	0.025463	0.192735	1.072479	0.001721
1.016135					
128		(french fries)		(energy drink)	
0.170911	0.026663	0.006133	0.035881	1.345733	0.001576
1.009561					
129		(energy drink)		(french fries)	
0.026663	0.170911	0.006133	0.230000	1.345733	0.001576
1.076740					
130		(french fries)		(escalope)	
0.170911	0.079323	0.016398	0.095944	1.209537	0.002841
1.018385					
131		(escalope)		(french fries)	

0.079323	0.170911	0.016398	0.206723	1.209537	0.002841
1.045145					
132	(frozen smoothie)				(escalope)
0.063325	0.079323	0.005466	0.086316	1.088159	0.000443
1.007654					
133	(escalope)				(frozen smoothie)
0.079323	0.063325	0.005466	0.068908	1.088159	0.000443
1.005996					
134	(frozen vegetables)				(escalope)
0.095321	0.079323	0.007599	0.079720	1.005011	0.000038
1.000432					
135	(escalope)				(frozen vegetables)
0.079323	0.095321	0.007599	0.095798	1.005011	0.000038
1.000528					
136	(french fries)				(fresh bread)
0.170911	0.043061	0.008266	0.048362	1.123105	0.000906
1.005570					
137	(fresh bread)				(french fries)
0.043061	0.170911	0.008266	0.191950	1.123105	0.000906
1.026038					
138	(french fries)				(frozen smoothie)
0.170911	0.063325	0.014531	0.085023	1.342654	0.003709
1.023715					
139	(frozen smoothie)				(french fries)
0.063325	0.170911	0.014531	0.229474	1.342654	0.003709
1.076004					
140	(french fries)				(frozen vegetables)
0.170911	0.095321	0.019064	0.111544	1.170203	0.002773
1.018261					
141	(frozen vegetables)				(french fries)
0.095321	0.170911	0.019064	0.200000	1.170203	0.002773
1.036362					
142	(french fries)				(grated cheese)
0.170911	0.052393	0.010399	0.060842	1.161270	0.001444
1.008997					
143	(grated cheese)				(french fries)
0.052393	0.170911	0.010399	0.198473	1.161270	0.001444
1.034388					
144	(french fries)				(green tea)
0.170911	0.132116	0.028530	0.166927	1.263488	0.005950
1.041786					
145	(green tea)				(french fries)
0.132116	0.170911	0.028530	0.215943	1.263488	0.005950
1.057436					
146	(frozen vegetables)				(fresh bread)
0.095321	0.043061	0.006799	0.071329	1.656459	0.002694
1.030439					
147	(fresh bread)				(frozen vegetables)

0.043061	0.095321	0.006799	0.157895	1.656459	0.002694
1.074307					
148	(fresh bread)			(green tea)	
0.043061	0.132116	0.006399	0.148607	1.124823	0.000710
1.019370					
149	(green tea)			(fresh bread)	
0.132116	0.043061	0.006399	0.048436	1.124823	0.000710
1.005649					
150	(frozen vegetables)			(frozen smoothie)	
0.095321	0.063325	0.009999	0.104895	1.656459	0.003962
1.046442					
151	(frozen smoothie)			(frozen vegetables)	
0.063325	0.095321	0.009999	0.157895	1.656459	0.003962
1.074307					
152	(green tea)			(frozen smoothie)	
0.132116	0.063325	0.011199	0.084763	1.338539	0.002832
1.023423					
153	(frozen smoothie)			(green tea)	
0.063325	0.132116	0.011199	0.176842	1.338539	0.002832
1.054335					
154	(frozen vegetables)			(grated cheese)	
0.095321	0.052393	0.006799	0.071329	1.361416	0.001805
1.020390					
155	(grated cheese)			(frozen vegetables)	
0.052393	0.095321	0.006799	0.129771	1.361416	0.001805
1.039588					
156	(frozen vegetables)			(green tea)	
0.095321	0.132116	0.014398	0.151049	1.143308	0.001805
1.022302					
157	(green tea)			(frozen vegetables)	
0.132116	0.095321	0.014398	0.108981	1.143308	0.001805
1.015331					
158	(green tea)			(grated cheese)	
0.132116	0.052393	0.007866	0.059536	1.136331	0.000944
1.007595					
159	(grated cheese)			(green tea)	
0.052393	0.132116	0.007866	0.150127	1.136331	0.000944
1.021193					
160	(eggs, chocolate)			(burgers)	
0.033196	0.087188	0.005466	0.164659	1.888539	0.002572
1.092741					
161	(eggs, burgers)			(chocolate)	
0.028796	0.163845	0.005466	0.189815	1.158504	0.000748
1.032054					
162	(chocolate, burgers)			(eggs)	
0.017064	0.179709	0.005466	0.320312	1.782392	0.002399
1.206864					
163	(eggs)			(chocolate, burgers)	

0.179709	0.017064	0.005466	0.030415	1.782392	0.002399
1.013770					
164	(chocolate)			(eggs, burgers)	
0.163845	0.028796	0.005466	0.033360	1.158504	0.000748
1.004722					
165	(burgers)			(eggs, chocolate)	
0.087188	0.033196	0.005466	0.062691	1.888539	0.002572
1.031468					
166	(eggs, french fries)			(burgers)	
0.036395	0.087188	0.009065	0.249084	2.856852	0.005892
1.215598					
167	(eggs, burgers)			(french fries)	
0.028796	0.170911	0.009065	0.314815	1.841986	0.004144
1.210022					
168	(french fries, burgers)			(eggs)	
0.021997	0.179709	0.009065	0.412121	2.293265	0.005112
1.395340					
169	(eggs)			(french fries, burgers)	
0.179709	0.021997	0.009065	0.050445	2.293265	0.005112
1.029959					
170	(french fries)			(eggs, burgers)	
0.170911	0.028796	0.009065	0.053042	1.841986	0.004144
1.025604					
171	(burgers)			(eggs, french fries)	
0.087188	0.036395	0.009065	0.103976	2.856852	0.005892
1.075422					
172	(eggs, burgers)			(green tea)	
0.028796	0.132116	0.005999	0.208333	1.576900	0.002195
1.096275					
173	(eggs, green tea)			(burgers)	
0.025463	0.087188	0.005999	0.235602	2.702219	0.003779
1.194158					
174	(burgers, green tea)			(eggs)	
0.017464	0.179709	0.005999	0.343511	1.911483	0.002861
1.249512					
175	(eggs)			(burgers, green tea)	
0.179709	0.017464	0.005999	0.033383	1.911483	0.002861
1.016468					
176	(burgers)			(eggs, green tea)	
0.087188	0.025463	0.005999	0.068807	2.702219	0.003779
1.046547					
177	(green tea)			(eggs, burgers)	
0.132116	0.028796	0.005999	0.045409	1.576900	0.002195
1.017403					
178	(french fries, burgers)			(green tea)	
0.021997	0.132116	0.005466	0.248485	1.880812	0.002560
1.154846					
179	(french fries, green tea)			(burgers)	

0.028530	0.087188	0.005466	0.191589	2.197412	0.002978
1.129143					
180	(burgers, green tea)			(french fries)	
0.017464	0.170911	0.005466	0.312977	1.831233	0.002481
1.206786					
181	(french fries)			(burgers, green tea)	
0.170911	0.017464	0.005466	0.031981	1.831233	0.002481
1.014997					
182	(burgers)			(french fries, green tea)	
0.087188	0.028530	0.005466	0.062691	2.197412	0.002978
1.036446					
183	(green tea)			(french fries, burgers)	
0.132116	0.021997	0.005466	0.041372	1.880812	0.002560
1.020211					
184	(eggs, chocolate)			(french fries)	
0.033196	0.170911	0.008399	0.253012	1.480377	0.002725
1.109910					
185	(eggs, french fries)			(chocolate)	
0.036395	0.163845	0.008399	0.230769	1.408462	0.002436
1.087002					
186	(chocolate, french fries)			(eggs)	
0.034395	0.179709	0.008399	0.244186	1.358783	0.002218
1.085308					
187	(eggs)			(chocolate, french fries)	
0.179709	0.034395	0.008399	0.046736	1.358783	0.002218
1.012946					
188	(chocolate)			(eggs, french fries)	
0.163845	0.036395	0.008399	0.051261	1.408462	0.002436
1.015669					
189	(french fries)			(eggs, chocolate)	
0.170911	0.033196	0.008399	0.049142	1.480377	0.002725
1.016771					
190	(eggs, chocolate)			(frozen vegetables)	
0.033196	0.095321	0.005733	0.172691	1.811683	0.002568
1.093520					
191	(eggs, frozen vegetables)			(chocolate)	
0.021730	0.163845	0.005733	0.263804	1.610083	0.002172
1.135777					
192	(chocolate, frozen vegetables)			(eggs)	
0.022930	0.179709	0.005733	0.250000	1.391135	0.001612
1.093721					
193	(eggs)			(chocolate, frozen vegetables)	
0.179709	0.022930	0.005733	0.031899	1.391135	0.001612
1.009264					
194	(chocolate)			(eggs, frozen vegetables)	
0.163845	0.021730	0.005733	0.034988	1.610083	0.002172
1.013738					
195	(frozen vegetables)			(eggs, chocolate)	

0.095321	0.033196	0.005733	0.060140	1.811683	0.002568
1.028668					
196	(eggs, chocolate)				(green tea)
0.033196	0.132116	0.005466	0.164659	1.246321	0.001080
1.038958					
197	(eggs, green tea)				(chocolate)
0.025463	0.163845	0.005466	0.214660	1.310140	0.001294
1.064704					
198	(chocolate, green tea)				(eggs)
0.023464	0.179709	0.005466	0.232955	1.296285	0.001249
1.069416					
199		(eggs)		(chocolate, green tea)	
0.179709	0.023464	0.005466	0.030415	1.296285	0.001249
1.007170					
200		(chocolate)		(eggs, green tea)	
0.163845	0.025463	0.005466	0.033360	1.310140	0.001294
1.008170					
201		(green tea)		(eggs, chocolate)	
0.132116	0.033196	0.005466	0.041372	1.246321	0.001080
1.008530					
202	(chocolate, french fries)				(escalope)
0.034395	0.079323	0.005199	0.151163	1.905667	0.002471
1.084633					
203	(chocolate, escalope)			(french fries)	
0.017598	0.170911	0.005199	0.295455	1.728709	0.002192
1.176772					
204	(french fries, escalope)			(chocolate)	
0.016398	0.163845	0.005199	0.317073	1.935204	0.002513
1.224370					
205		(chocolate)		(french fries, escalope)	
0.163845	0.016398	0.005199	0.031733	1.935204	0.002513
1.015838					
206		(french fries)		(chocolate, escalope)	
0.170911	0.017598	0.005199	0.030421	1.728709	0.002192
1.013226					
207		(escalope)		(chocolate, french fries)	
0.079323	0.034395	0.005199	0.065546	1.905667	0.002471
1.033336					
208	(chocolate, frozen vegetables)			(french fries)	
0.022930	0.170911	0.005599	0.244186	1.428736	0.001680
1.096949					
209	(chocolate, french fries)			(frozen vegetables)	
0.034395	0.095321	0.005599	0.162791	1.707822	0.002321
1.080589					
210	(french fries, frozen vegetables)			(chocolate)	
0.019064	0.163845	0.005599	0.293706	1.792588	0.002476
1.183863					
211		(chocolate)	(french fries, frozen vegetables)		

0.163845	0.019064	0.005599	0.034174	1.792588	0.002476
1.015645					
212	(frozen vegetables)		(chocolate, french fries)		
0.095321	0.034395	0.005599	0.058741	1.707822	0.002321
1.025865					
213	(french fries)		(chocolate, frozen vegetables)		
0.170911	0.022930	0.005599	0.032761	1.428736	0.001680
1.010164					
214	(chocolate, french fries)		(green tea)		
0.034395	0.132116	0.005199	0.151163	1.144170	0.000655
1.022439					
215	(chocolate, green tea)		(french fries)		
0.023464	0.170911	0.005199	0.221591	1.296532	0.001189
1.065108					
216	(french fries, green tea)		(chocolate)		
0.028530	0.163845	0.005199	0.182243	1.112290	0.000525
1.022498					
217	(chocolate)		(french fries, green tea)		
0.163845	0.028530	0.005199	0.031733	1.112290	0.000525
1.003309					
218	(french fries)		(chocolate, green tea)		
0.170911	0.023464	0.005199	0.030421	1.296532	0.001189
1.007176					
219	(green tea)		(chocolate, french fries)		
0.132116	0.034395	0.005199	0.039354	1.144170	0.000655
1.005162					
220	(eggs, frozen vegetables)		(french fries)		
0.021730	0.170911	0.005199	0.239264	1.399936	0.001485
1.089851					
221	(eggs, french fries)		(frozen vegetables)		
0.036395	0.095321	0.005199	0.142857	1.498701	0.001730
1.055459					
222	(french fries, frozen vegetables)		(eggs)		
0.019064	0.179709	0.005199	0.272727	1.517602	0.001773
1.127900					
223	(eggs)		(french fries, frozen vegetables)		
0.179709	0.019064	0.005199	0.028932	1.517602	0.001773
1.010162					
224	(frozen vegetables)		(eggs, french fries)		
0.095321	0.036395	0.005199	0.054545	1.498701	0.001730
1.019197					
225	(french fries)		(eggs, frozen vegetables)		
0.170911	0.021730	0.005199	0.030421	1.399936	0.001485
1.008963					
226	(eggs, french fries)		(green tea)		
0.036395	0.132116	0.007066	0.194139	1.469463	0.002257
1.076965					
227	(eggs, green tea)		(french fries)		

0.025463	0.170911	0.007066	0.277487	1.623580	0.002714
1.147508					
228	(french fries, green tea)				(eggs)
0.028530	0.179709	0.007066	0.247664	1.378134	0.001939
1.090324					
229		(eggs)		(french fries, green tea)	
0.179709	0.028530	0.007066	0.039318	1.378134	0.001939
1.011229					
230		(french fries)		(eggs, green tea)	
0.170911	0.025463	0.007066	0.041342	1.623580	0.002714
1.016563					
231		(green tea)		(eggs, french fries)	
0.132116	0.036395	0.007066	0.053481	1.469463	0.002257
1.018052					

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