CONFIDENCE – EXTENDED BAKERY (1K)

/usr/bin/python3.5 /home/pratyay/Desktop/PyCharm/apriori/apriori\_6.py

Read 1000 transactions successfully..

################### Generating unique items ###################

1. 7

2. 15

3. 44

4. 49

5. 1

6. 19

7. 3

8. 4

9. 18

10. 35

11. 2

12. 9

13. 23

14. 14

15. 21

16. 12

17. 31

18. 36

19. 48

20. 27

21. 28

22. 24

23. 40

24. 41

25. 43

26. 20

27. 26

28. 5

29. 22

30. 39

31. 16

32. 32

33. 45

34. 6

35. 10

36. 11

37. 37

38. 8

39. 47

40. 34

41. 13

42. 38

43. 0

44. 42

45. 25

46. 46

47. 17

48. 29

49. 30

50. 33

Enter the minimum support :: 0.01

################### Generating Frequent 1 item-set ###################

1. ['7'] | 0.093

2. ['15'] | 0.073

3. ['44'] | 0.077

4. ['49'] | 0.059

5. ['1'] | 0.085

6. ['19'] | 0.076

7. ['3'] | 0.078

8. ['4'] | 0.091

9. ['18'] | 0.084

10. ['35'] | 0.075

11. ['2'] | 0.072

12. ['9'] | 0.09

13. ['23'] | 0.082

14. ['14'] | 0.095

15. ['21'] | 0.044

16. ['12'] | 0.079

17. ['31'] | 0.091

18. ['36'] | 0.084

19. ['48'] | 0.077

20. ['27'] | 0.09

21. ['28'] | 0.102

22. ['24'] | 0.066

23. ['40'] | 0.066

24. ['41'] | 0.072

25. ['43'] | 0.062

26. ['20'] | 0.04

27. ['26'] | 0.047

28. ['5'] | 0.103

29. ['22'] | 0.108

30. ['39'] | 0.055

31. ['16'] | 0.081

32. ['32'] | 0.076

33. ['45'] | 0.094

34. ['6'] | 0.034

35. ['10'] | 0.041

36. ['11'] | 0.068

37. ['37'] | 0.065

38. ['8'] | 0.037

39. ['47'] | 0.074

40. ['34'] | 0.042

41. ['13'] | 0.056

42. ['38'] | 0.026

43. ['0'] | 0.084

44. ['42'] | 0.082

45. ['25'] | 0.038

46. ['46'] | 0.085

47. ['17'] | 0.051

48. ['29'] | 0.061

49. ['30'] | 0.049

50. ['33'] | 0.078

################### Generating Frequent 2 item-set ###################

51. ['7', '15'] | 0.031

52. ['7', '49'] | 0.024

53. ['7', '45'] | 0.026

54. ['7', '11'] | 0.033

55. ['7', '37'] | 0.03

56. ['15', '49'] | 0.024

57. ['44', '14'] | 0.034

58. ['1', '19'] | 0.04

59. ['3', '18'] | 0.041

60. ['3', '35'] | 0.039

61. ['4', '9'] | 0.049

62. ['18', '35'] | 0.046

63. ['2', '0'] | 0.04

64. ['2', '46'] | 0.039

65. ['9', '45'] | 0.01

66. ['9', '13'] | 0.01

67. ['23', '24'] | 0.033

68. ['23', '40'] | 0.031

69. ['23', '41'] | 0.029

70. ['23', '43'] | 0.02

71. ['23', '42'] | 0.011

72. ['23', '33'] | 0.01

73. ['14', '5'] | 0.013

74. ['14', '22'] | 0.012

75. ['12', '31'] | 0.044

76. ['12', '36'] | 0.041

77. ['12', '48'] | 0.036

78. ['31', '36'] | 0.042

79. ['31', '48'] | 0.033

80. ['31', '5'] | 0.01

81. ['36', '48'] | 0.033

82. ['27', '28'] | 0.053

83. ['24', '40'] | 0.031

84. ['24', '41'] | 0.03

85. ['24', '43'] | 0.02

86. ['40', '41'] | 0.029

87. ['40', '43'] | 0.021

88. ['41', '43'] | 0.023

89. ['5', '22'] | 0.058

90. ['5', '42'] | 0.01

91. ['16', '32'] | 0.04

92. ['16', '45'] | 0.033

93. ['32', '45'] | 0.032

94. ['45', '11'] | 0.029

95. ['45', '37'] | 0.025

96. ['11', '37'] | 0.029

97. ['47', '17'] | 0.026

98. ['47', '29'] | 0.018

99. ['0', '46'] | 0.047

100. ['42', '33'] | 0.038

101. ['17', '29'] | 0.018

################### Generating Frequent 3 item-set ###################

102. ['15', '7', '49'] | 0.023

103. ['7', '45', '11'] | 0.024

104. ['7', '45', '37'] | 0.024

105. ['7', '11', '37'] | 0.027

106. ['45', '11', '37'] | 0.024

107. ['45', '16', '32'] | 0.032

108. ['3', '18', '35'] | 0.038

109. ['0', '2', '46'] | 0.038

110. ['24', '23', '40'] | 0.028

111. ['24', '23', '41'] | 0.029

112. ['24', '23', '43'] | 0.019

113. ['24', '40', '41'] | 0.028

114. ['24', '40', '43'] | 0.019

115. ['24', '41', '43'] | 0.019

116. ['23', '40', '41'] | 0.028

117. ['23', '40', '43'] | 0.019

118. ['23', '41', '43'] | 0.019

119. ['40', '41', '43'] | 0.019

120. ['12', '31', '36'] | 0.04

121. ['12', '31', '48'] | 0.031

122. ['12', '36', '48'] | 0.031

123. ['31', '36', '48'] | 0.031

124. ['47', '17', '29'] | 0.018

################### Generating Frequent 4 item-set ###################

125. ['7', '45', '11', '37'] | 0.024

126. ['24', '40', '23', '41'] | 0.028

127. ['24', '40', '23', '43'] | 0.019

128. ['24', '40', '41', '43'] | 0.019

129. ['24', '23', '41', '43'] | 0.019

130. ['40', '23', '41', '43'] | 0.019

131. ['12', '36', '31', '48'] | 0.031

################### Generating Frequent 5 item-set ###################

132. ['24', '40', '41', '23', '43'] | 0.019

################### Generating Frequent 6 item-set ###################

[['7'], ['15'], ['44'], ['49'], ['1'], ['19'], ['3'], ['4'], ['18'], ['35'], ['2'], ['9'], ['23'], ['14'], ['21'], ['12'], ['31'], ['36'], ['48'], ['27'], ['28'], ['24'], ['40'], ['41'], ['43'], ['20'], ['26'], ['5'], ['22'], ['39'], ['16'], ['32'], ['45'], ['6'], ['10'], ['11'], ['37'], ['8'], ['47'], ['34'], ['13'], ['38'], ['0'], ['42'], ['25'], ['46'], ['17'], ['29'], ['30'], ['33'], ['7', '15'], ['7', '49'], ['7', '45'], ['7', '11'], ['7', '37'], ['15', '49'], ['44', '14'], ['1', '19'], ['3', '18'], ['3', '35'], ['4', '9'], ['18', '35'], ['2', '0'], ['2', '46'], ['9', '45'], ['9', '13'], ['23', '24'], ['23', '40'], ['23', '41'], ['23', '43'], ['23', '42'], ['23', '33'], ['14', '5'], ['14', '22'], ['12', '31'], ['12', '36'], ['12', '48'], ['31', '36'], ['31', '48'], ['31', '5'], ['36', '48'], ['27', '28'], ['24', '40'], ['24', '41'], ['24', '43'], ['40', '41'], ['40', '43'], ['41', '43'], ['5', '22'], ['5', '42'], ['16', '32'], ['16', '45'], ['32', '45'], ['45', '11'], ['45', '37'], ['11', '37'], ['47', '17'], ['47', '29'], ['0', '46'], ['42', '33'], ['17', '29'], ['15', '7', '49'], ['7', '45', '11'], ['7', '45', '37'], ['7', '11', '37'], ['45', '11', '37'], ['45', '16', '32'], ['3', '18', '35'], ['0', '2', '46'], ['24', '23', '40'], ['24', '23', '41'], ['24', '23', '43'], ['24', '40', '41'], ['24', '40', '43'], ['24', '41', '43'], ['23', '40', '41'], ['23', '40', '43'], ['23', '41', '43'], ['40', '41', '43'], ['12', '31', '36'], ['12', '31', '48'], ['12', '36', '48'], ['31', '36', '48'], ['47', '17', '29'], ['7', '45', '11', '37'], ['24', '40', '23', '41'], ['24', '40', '23', '43'], ['24', '40', '41', '43'], ['24', '23', '41', '43'], ['40', '23', '41', '43'], ['12', '36', '31', '48'], ['24', '40', '41', '23', '43']]

Enter a minimum confidence :: 0.25

1. ['7'] -> ['15'](0.3333333333333333) | 0.10400000000000001

2. ['7'] -> ['49'](0.25806451612903225) | 0.10400000000000001

3. ['7'] -> ['45'](0.27956989247311825) | 0.135

4. ['7'] -> ['11'](0.3548387096774194) | 0.095

5. ['7'] -> ['37'](0.3225806451612903) | 0.098

6. ['7'] -> ['45', '11'](0.25806451612903225) | 0.07400000000000001

7. ['7'] -> ['45', '37'](0.25806451612903225) | 0.07

8. ['7'] -> ['11', '37'](0.2903225806451613) | 0.068

9. ['7'] -> ['45', '11', '37'](0.25806451612903225) | 0.069

10. ['15'] -> ['7'](0.4246575342465753) | 0.10400000000000001

11. ['15'] -> ['49'](0.3287671232876712) | 0.084

12. ['15'] -> ['7', '49'](0.3150684931506849) | 0.051000000000000004

13. ['44'] -> ['14'](0.44155844155844154) | 0.104

14. ['49'] -> ['7'](0.4067796610169492) | 0.10400000000000001

15. ['49'] -> ['15'](0.4067796610169492) | 0.084

16. ['49'] -> ['7', '15'](0.3898305084745763) | 0.044

17. ['1'] -> ['19'](0.47058823529411764) | 0.08099999999999999

18. ['19'] -> ['1'](0.5263157894736842) | 0.08099999999999999

19. ['3'] -> ['18'](0.5256410256410257) | 0.07999999999999999

20. ['3'] -> ['35'](0.5) | 0.075

21. ['3'] -> ['18', '35'](0.48717948717948717) | 0.048

22. ['4'] -> ['9'](0.5384615384615384) | 0.083

23. ['18'] -> ['3'](0.4880952380952381) | 0.07999999999999999

24. ['18'] -> ['35'](0.5476190476190477) | 0.067

25. ['18'] -> ['3', '35'](0.4523809523809524) | 0.047

26. ['35'] -> ['3'](0.52) | 0.075

27. ['35'] -> ['18'](0.6133333333333333) | 0.067

28. ['35'] -> ['3', '18'](0.5066666666666667) | 0.04

29. ['2'] -> ['0'](0.5555555555555556) | 0.076

30. ['2'] -> ['46'](0.5416666666666666) | 0.079

31. ['2'] -> ['0', '46'](0.5277777777777778) | 0.043000000000000003

32. ['9'] -> ['4'](0.5444444444444444) | 0.083

33. ['23'] -> ['24'](0.4024390243902439) | 0.082

34. ['23'] -> ['40'](0.3780487804878049) | 0.086

35. ['23'] -> ['41'](0.35365853658536583) | 0.096

36. ['23'] -> ['24', '40'](0.34146341463414637) | 0.057

37. ['23'] -> ['24', '41'](0.35365853658536583) | 0.054

38. ['23'] -> ['40', '41'](0.34146341463414637) | 0.055

39. ['23'] -> ['24', '40', '41'](0.34146341463414637) | 0.054

40. ['14'] -> ['44'](0.35789473684210527) | 0.104

41. ['12'] -> ['31'](0.5569620253164557) | 0.082

42. ['12'] -> ['36'](0.5189873417721519) | 0.08099999999999999

43. ['12'] -> ['48'](0.45569620253164556) | 0.08399999999999999

44. ['12'] -> ['31', '36'](0.5063291139240507) | 0.041

45. ['12'] -> ['31', '48'](0.3924050632911392) | 0.05

46. ['12'] -> ['36', '48'](0.3924050632911392) | 0.05

47. ['12'] -> ['31', '36', '48'](0.3924050632911392) | 0.048

48. ['31'] -> ['12'](0.4835164835164835) | 0.082

49. ['31'] -> ['36'](0.46153846153846156) | 0.091

50. ['31'] -> ['48'](0.3626373626373626) | 0.10200000000000001

51. ['31'] -> ['12', '36'](0.43956043956043955) | 0.052

52. ['31'] -> ['12', '48'](0.34065934065934067) | 0.065

53. ['31'] -> ['36', '48'](0.34065934065934067) | 0.062

54. ['31'] -> ['12', '36', '48'](0.34065934065934067) | 0.06

55. ['36'] -> ['12'](0.4880952380952381) | 0.08099999999999999

56. ['36'] -> ['31'](0.5) | 0.091

57. ['36'] -> ['48'](0.39285714285714285) | 0.095

58. ['36'] -> ['12', '31'](0.47619047619047616) | 0.048

59. ['36'] -> ['12', '48'](0.36904761904761907) | 0.057999999999999996

60. ['36'] -> ['31', '48'](0.36904761904761907) | 0.055

61. ['36'] -> ['12', '31', '48'](0.36904761904761907) | 0.053

62. ['48'] -> ['12'](0.4675324675324675) | 0.08399999999999999

63. ['48'] -> ['31'](0.42857142857142855) | 0.10200000000000001

64. ['48'] -> ['36'](0.42857142857142855) | 0.095

65. ['48'] -> ['12', '31'](0.4025974025974026) | 0.059

66. ['48'] -> ['12', '36'](0.4025974025974026) | 0.056

67. ['48'] -> ['31', '36'](0.4025974025974026) | 0.056999999999999995

68. ['48'] -> ['12', '31', '36'](0.4025974025974026) | 0.055

69. ['27'] -> ['28'](0.5888888888888889) | 0.086

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71. ['24'] -> ['23'](0.5) | 0.082

72. ['24'] -> ['40'](0.4696969696969697) | 0.07

73. ['24'] -> ['41'](0.45454545454545453) | 0.078

74. ['24'] -> ['43'](0.30303030303030304) | 0.088

75. ['24'] -> ['23', '40'](0.42424242424242425) | 0.041

76. ['24'] -> ['23', '41'](0.4393939393939394) | 0.037

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78. ['24'] -> ['40', '41'](0.42424242424242425) | 0.039

79. ['24'] -> ['40', '43'](0.2878787878787879) | 0.049

80. ['24'] -> ['41', '43'](0.2878787878787879) | 0.051000000000000004

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82. ['24'] -> ['23', '40', '43'](0.2878787878787879) | 0.047

83. ['24'] -> ['23', '41', '43'](0.2878787878787879) | 0.047

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85. ['24'] -> ['40', '23', '41', '43'](0.2878787878787879) | 0.047

86. ['40'] -> ['23'](0.4696969696969697) | 0.086

87. ['40'] -> ['24'](0.4696969696969697) | 0.07

88. ['40'] -> ['41'](0.4393939393939394) | 0.07999999999999999

89. ['40'] -> ['43'](0.3181818181818182) | 0.086

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97. ['40'] -> ['24', '23', '43'](0.2878787878787879) | 0.047

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100. ['40'] -> ['24', '23', '41', '43'](0.2878787878787879) | 0.047

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105. ['41'] -> ['23', '24'](0.4027777777777778) | 0.047

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111. ['41'] -> ['24', '23', '40'](0.3888888888888889) | 0.044

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113. ['41'] -> ['24', '40', '43'](0.2638888888888889) | 0.053

114. ['41'] -> ['23', '40', '43'](0.2638888888888889) | 0.053

115. ['41'] -> ['24', '40', '23', '43'](0.2638888888888889) | 0.053

116. ['43'] -> ['23'](0.3225806451612903) | 0.10400000000000001

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118. ['43'] -> ['40'](0.3387096774193548) | 0.086

119. ['43'] -> ['41'](0.3709677419354839) | 0.088

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122. ['43'] -> ['23', '41'](0.3064516129032258) | 0.053

123. ['43'] -> ['24', '40'](0.3064516129032258) | 0.05499999999999999

124. ['43'] -> ['24', '41'](0.3064516129032258) | 0.05399999999999999

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131. ['5'] -> ['22'](0.5631067961165048) | 0.095

132. ['22'] -> ['5'](0.5370370370370371) | 0.095

133. ['16'] -> ['32'](0.49382716049382713) | 0.077

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137. ['32'] -> ['45'](0.42105263157894735) | 0.106

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139. ['45'] -> ['7'](0.2765957446808511) | 0.135

140. ['45'] -> ['16'](0.35106382978723405) | 0.109

141. ['45'] -> ['32'](0.3404255319148936) | 0.106

142. ['45'] -> ['11'](0.30851063829787234) | 0.10400000000000001

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149. ['11'] -> ['7'](0.4852941176470588) | 0.095

150. ['11'] -> ['45'](0.4264705882352941) | 0.10400000000000001

151. ['11'] -> ['37'](0.4264705882352941) | 0.075

152. ['11'] -> ['7', '45'](0.35294117647058826) | 0.046

153. ['11'] -> ['7', '37'](0.39705882352941174) | 0.044000000000000004

154. ['11'] -> ['45', '37'](0.35294117647058826) | 0.045

155. ['11'] -> ['7', '45', '37'](0.35294117647058826) | 0.044

156. ['37'] -> ['7'](0.46153846153846156) | 0.098

157. ['37'] -> ['45'](0.38461538461538464) | 0.10900000000000001

158. ['37'] -> ['11'](0.4461538461538462) | 0.075

159. ['37'] -> ['7', '45'](0.36923076923076925) | 0.043000000000000003

160. ['37'] -> ['7', '11'](0.4153846153846154) | 0.044

161. ['37'] -> ['45', '11'](0.36923076923076925) | 0.046

162. ['37'] -> ['7', '45', '11'](0.36923076923076925) | 0.041

163. ['47'] -> ['17'](0.35135135135135137) | 0.07300000000000001

164. ['0'] -> ['2'](0.47619047619047616) | 0.076

165. ['0'] -> ['46'](0.5595238095238095) | 0.075

166. ['0'] -> ['2', '46'](0.4523809523809524) | 0.047

167. ['42'] -> ['33'](0.4634146341463415) | 0.08399999999999999

168. ['46'] -> ['2'](0.4588235294117647) | 0.079

169. ['46'] -> ['0'](0.5529411764705883) | 0.075

170. ['46'] -> ['2', '0'](0.4470588235294118) | 0.049

171. ['17'] -> ['47'](0.5098039215686274) | 0.07300000000000001

172. ['17'] -> ['29'](0.35294117647058826) | 0.076

173. ['17'] -> ['47', '29'](0.35294117647058826) | 0.033

174. ['29'] -> ['47'](0.29508196721311475) | 0.099

175. ['29'] -> ['17'](0.29508196721311475) | 0.076

176. ['29'] -> ['47', '17'](0.29508196721311475) | 0.051

177. ['33'] -> ['42'](0.48717948717948717) | 0.08399999999999999

178. ['7', '15'] -> ['49'](0.7419354838709677) | 0.044

179. ['7', '49'] -> ['15'](0.9583333333333334) | 0.051000000000000004

180. ['7', '45'] -> ['11'](0.9230769230769231) | 0.046

181. ['7', '45'] -> ['37'](0.9230769230769231) | 0.043000000000000003

182. ['7', '45'] -> ['11', '37'](0.9230769230769231) | 0.007

183. ['7', '11'] -> ['45'](0.7272727272727273) | 0.079

184. ['7', '11'] -> ['37'](0.8181818181818182) | 0.044

185. ['7', '11'] -> ['45', '37'](0.7272727272727273) | 0.009999999999999998

186. ['7', '37'] -> ['45'](0.8) | 0.07600000000000001

187. ['7', '37'] -> ['11'](0.9) | 0.044000000000000004

188. ['7', '37'] -> ['45', '11'](0.8) | 0.011

189. ['15', '49'] -> ['7'](0.9583333333333334) | 0.07100000000000001

190. ['3', '18'] -> ['35'](0.926829268292683) | 0.04

191. ['3', '35'] -> ['18'](0.9743589743589743) | 0.047

192. ['18', '35'] -> ['3'](0.8260869565217391) | 0.048

193. ['2', '0'] -> ['46'](0.95) | 0.049

194. ['2', '46'] -> ['0'](0.9743589743589743) | 0.047

195. ['9', '45'] -> ['11'](0.3) | 0.07200000000000001

196. ['9', '45'] -> ['13'](0.3) | 0.06

197. ['9', '13'] -> ['4'](0.4) | 0.093

198. ['9', '13'] -> ['45'](0.3) | 0.098

199. ['9', '13'] -> ['33'](0.3) | 0.082

200. ['23', '24'] -> ['40'](0.8484848484848485) | 0.043

201. ['23', '24'] -> ['41'](0.8787878787878788) | 0.047

202. ['23', '24'] -> ['43'](0.5757575757575758) | 0.056999999999999995

203. ['23', '24'] -> ['40', '41'](0.8484848484848485) | 0.006

204. ['23', '24'] -> ['40', '43'](0.5757575757575758) | 0.016

205. ['23', '24'] -> ['41', '43'](0.5757575757575758) | 0.018000000000000002

206. ['23', '24'] -> ['40', '41', '43'](0.5757575757575758) | 0.014

207. ['23', '40'] -> ['24'](0.9032258064516129) | 0.041

208. ['23', '40'] -> ['41'](0.9032258064516129) | 0.047

209. ['23', '40'] -> ['43'](0.6129032258064516) | 0.05499999999999999

210. ['23', '40'] -> ['24', '41'](0.9032258064516129) | 0.005

211. ['23', '40'] -> ['24', '43'](0.6129032258064516) | 0.013000000000000001

212. ['23', '40'] -> ['41', '43'](0.6129032258064516) | 0.016

213. ['23', '40'] -> ['24', '41', '43'](0.6129032258064516) | 0.012

214. ['23', '41'] -> ['24'](1.0) | 0.037

215. ['23', '41'] -> ['40'](0.9655172413793104) | 0.039

216. ['23', '41'] -> ['43'](0.6551724137931034) | 0.053

217. ['23', '41'] -> ['24', '40'](0.9655172413793104) | 0.004

218. ['23', '41'] -> ['24', '43'](0.6551724137931034) | 0.011

219. ['23', '41'] -> ['40', '43'](0.6551724137931034) | 0.012

220. ['23', '41'] -> ['24', '40', '43'](0.6551724137931034) | 0.01

221. ['23', '43'] -> ['24'](0.95) | 0.048

222. ['23', '43'] -> ['40'](0.95) | 0.048

223. ['23', '43'] -> ['41'](0.95) | 0.054

224. ['23', '43'] -> ['24', '40'](0.95) | 0.013000000000000001

225. ['23', '43'] -> ['24', '41'](0.95) | 0.012

226. ['23', '43'] -> ['40', '41'](0.95) | 0.011

227. ['23', '43'] -> ['24', '40', '41'](0.95) | 0.009999999999999998

228. ['23', '42'] -> ['33'](0.5454545454545454) | 0.077

229. ['23', '33'] -> ['42'](0.6) | 0.08

230. ['14', '5'] -> ['22'](0.38461538461538464) | 0.11099999999999999

231. ['14', '22'] -> ['5'](0.4166666666666667) | 0.10500000000000001

232. ['12', '31'] -> ['36'](0.9090909090909091) | 0.048

233. ['12', '31'] -> ['48'](0.7045454545454546) | 0.059

234. ['12', '31'] -> ['36', '48'](0.7045454545454546) | 0.015

235. ['12', '36'] -> ['31'](0.975609756097561) | 0.052

236. ['12', '36'] -> ['48'](0.7560975609756098) | 0.056

237. ['12', '36'] -> ['31', '48'](0.7560975609756098) | 0.012

238. ['12', '48'] -> ['31'](0.8611111111111112) | 0.065

239. ['12', '48'] -> ['36'](0.8611111111111112) | 0.057999999999999996

240. ['12', '48'] -> ['31', '36'](0.8611111111111112) | 0.016

241. ['31', '36'] -> ['12'](0.9523809523809523) | 0.041

242. ['31', '36'] -> ['48'](0.7380952380952381) | 0.056999999999999995

243. ['31', '36'] -> ['12', '48'](0.7380952380952381) | 0.016

244. ['31', '48'] -> ['12'](0.9393939393939394) | 0.05

245. ['31', '48'] -> ['36'](0.9393939393939394) | 0.055

246. ['31', '48'] -> ['12', '36'](0.9393939393939394) | 0.012

247. ['31', '5'] -> ['21'](0.3) | 0.048

248. ['31', '5'] -> ['22'](0.6) | 0.106

249. ['36', '48'] -> ['12'](0.9393939393939394) | 0.05

250. ['36', '48'] -> ['31'](0.9393939393939394) | 0.062

251. ['36', '48'] -> ['12', '31'](0.9393939393939394) | 0.015

252. ['24', '40'] -> ['23'](0.9032258064516129) | 0.057

253. ['24', '40'] -> ['41'](0.9032258064516129) | 0.047

254. ['24', '40'] -> ['43'](0.6129032258064516) | 0.05499999999999999

255. ['24', '40'] -> ['23', '41'](0.9032258064516129) | 0.004

256. ['24', '40'] -> ['23', '43'](0.6129032258064516) | 0.013000000000000001

257. ['24', '40'] -> ['41', '43'](0.6129032258064516) | 0.016

258. ['24', '40'] -> ['23', '41', '43'](0.6129032258064516) | 0.012

259. ['24', '41'] -> ['23'](0.9666666666666667) | 0.054

260. ['24', '41'] -> ['40'](0.9333333333333333) | 0.04

261. ['24', '41'] -> ['43'](0.6333333333333333) | 0.05399999999999999

262. ['24', '41'] -> ['23', '40'](0.9333333333333333) | 0.005

263. ['24', '41'] -> ['23', '43'](0.6333333333333333) | 0.012

264. ['24', '41'] -> ['40', '43'](0.6333333333333333) | 0.013

265. ['24', '41'] -> ['23', '40', '43'](0.6333333333333333) | 0.011

266. ['24', '43'] -> ['23'](0.95) | 0.064

267. ['24', '43'] -> ['40'](0.95) | 0.048

268. ['24', '43'] -> ['41'](0.95) | 0.054

269. ['24', '43'] -> ['23', '40'](0.95) | 0.013000000000000001

270. ['24', '43'] -> ['23', '41'](0.95) | 0.011

271. ['24', '43'] -> ['40', '41'](0.95) | 0.011

272. ['24', '43'] -> ['23', '40', '41'](0.95) | 0.009999999999999998

273. ['40', '41'] -> ['23'](0.9655172413793104) | 0.055

274. ['40', '41'] -> ['24'](0.9655172413793104) | 0.039

275. ['40', '41'] -> ['43'](0.6551724137931034) | 0.053

276. ['40', '41'] -> ['23', '24'](0.9655172413793104) | 0.006

277. ['40', '41'] -> ['23', '43'](0.6551724137931034) | 0.011

278. ['40', '41'] -> ['24', '43'](0.6551724137931034) | 0.011

279. ['40', '41'] -> ['24', '23', '43'](0.6551724137931034) | 0.01

280. ['40', '43'] -> ['23'](0.9047619047619048) | 0.065

281. ['40', '43'] -> ['24'](0.9047619047619048) | 0.049

282. ['40', '43'] -> ['41'](0.9047619047619048) | 0.055

283. ['40', '43'] -> ['23', '24'](0.9047619047619048) | 0.016

284. ['40', '43'] -> ['23', '41'](0.9047619047619048) | 0.012

285. ['40', '43'] -> ['24', '41'](0.9047619047619048) | 0.013

286. ['40', '43'] -> ['24', '23', '41'](0.9047619047619048) | 0.012

287. ['41', '43'] -> ['23'](0.8260869565217391) | 0.067

288. ['41', '43'] -> ['24'](0.8260869565217391) | 0.051000000000000004

289. ['41', '43'] -> ['40'](0.8260869565217391) | 0.051000000000000004

290. ['41', '43'] -> ['23', '24'](0.8260869565217391) | 0.018000000000000002

291. ['41', '43'] -> ['23', '40'](0.8260869565217391) | 0.016

292. ['41', '43'] -> ['24', '40'](0.8260869565217391) | 0.016

293. ['41', '43'] -> ['24', '23', '40'](0.8260869565217391) | 0.013

294. ['5', '42'] -> ['27'](0.3) | 0.094

295. ['5', '42'] -> ['32'](0.3) | 0.08

296. ['16', '32'] -> ['45'](0.8) | 0.07

297. ['16', '45'] -> ['32'](0.9696969696969697) | 0.045

298. ['32', '45'] -> ['16'](1.0) | 0.049

299. ['45', '11'] -> ['7'](0.8275862068965517) | 0.07400000000000001

300. ['45', '11'] -> ['37'](0.8275862068965517) | 0.046

301. ['45', '11'] -> ['7', '37'](0.8275862068965517) | 0.011

302. ['45', '37'] -> ['7'](0.96) | 0.07

303. ['45', '37'] -> ['11'](0.96) | 0.045

304. ['45', '37'] -> ['7', '11'](0.96) | 0.009999999999999998

305. ['11', '37'] -> ['7'](0.9310344827586207) | 0.068

306. ['11', '37'] -> ['45'](0.8275862068965517) | 0.07500000000000001

307. ['11', '37'] -> ['7', '45'](0.8275862068965517) | 0.007

308. ['47', '17'] -> ['29'](0.6923076923076923) | 0.051

309. ['47', '29'] -> ['17'](1.0) | 0.033

310. ['0', '46'] -> ['2'](0.8085106382978723) | 0.043000000000000003

311. ['17', '29'] -> ['47'](1.0) | 0.056

312. ['7', '45', '11'] -> ['37'](1.0) | 0.041

313. ['7', '45', '37'] -> ['11'](1.0) | 0.044

314. ['7', '11', '37'] -> ['45'](0.8888888888888888) | 0.07300000000000001

315. ['45', '11', '37'] -> ['7'](1.0) | 0.069

316. ['24', '23', '40'] -> ['41'](1.0) | 0.044

317. ['24', '23', '40'] -> ['43'](0.6785714285714286) | 0.052

318. ['24', '23', '40'] -> ['41', '43'](0.6785714285714286) | 0.013

319. ['24', '23', '41'] -> ['40'](0.9655172413793104) | 0.039

320. ['24', '23', '41'] -> ['43'](0.6551724137931034) | 0.053

321. ['24', '23', '41'] -> ['40', '43'](0.6551724137931034) | 0.012

322. ['24', '23', '43'] -> ['40'](1.0) | 0.047

323. ['24', '23', '43'] -> ['41'](1.0) | 0.053

324. ['24', '23', '43'] -> ['40', '41'](1.0) | 0.01

325. ['24', '40', '41'] -> ['23'](1.0) | 0.054

326. ['24', '40', '41'] -> ['43'](0.6785714285714286) | 0.052

327. ['24', '40', '41'] -> ['23', '43'](0.6785714285714286) | 0.009999999999999998

328. ['24', '40', '43'] -> ['23'](1.0) | 0.063

329. ['24', '40', '43'] -> ['41'](1.0) | 0.053

330. ['24', '40', '43'] -> ['23', '41'](1.0) | 0.01

331. ['24', '41', '43'] -> ['23'](1.0) | 0.063

332. ['24', '41', '43'] -> ['40'](1.0) | 0.047

333. ['24', '41', '43'] -> ['23', '40'](1.0) | 0.012

334. ['23', '40', '41'] -> ['24'](1.0) | 0.038

335. ['23', '40', '41'] -> ['43'](0.6785714285714286) | 0.052

336. ['23', '40', '41'] -> ['24', '43'](0.6785714285714286) | 0.009999999999999998

337. ['23', '40', '43'] -> ['24'](1.0) | 0.047

338. ['23', '40', '43'] -> ['41'](1.0) | 0.053

339. ['23', '40', '43'] -> ['24', '41'](1.0) | 0.011

340. ['23', '41', '43'] -> ['24'](1.0) | 0.047

341. ['23', '41', '43'] -> ['40'](1.0) | 0.047

342. ['23', '41', '43'] -> ['24', '40'](1.0) | 0.012

343. ['40', '41', '43'] -> ['23'](1.0) | 0.063

344. ['40', '41', '43'] -> ['24'](1.0) | 0.047

345. ['40', '41', '43'] -> ['23', '24'](1.0) | 0.014

346. ['12', '31', '36'] -> ['48'](0.775) | 0.055

347. ['12', '31', '48'] -> ['36'](1.0) | 0.053

348. ['12', '36', '48'] -> ['31'](1.0) | 0.06

349. ['31', '36', '48'] -> ['12'](1.0) | 0.048

350. ['24', '40', '23', '41'] -> ['43'](0.6785714285714286) | 0.052

351. ['24', '40', '23', '43'] -> ['41'](1.0) | 0.053

352. ['24', '40', '41', '43'] -> ['23'](1.0) | 0.063

353. ['24', '23', '41', '43'] -> ['40'](1.0) | 0.047

354. ['40', '23', '41', '43'] -> ['24'](1.0) | 0.047

The average dissociation is 0.05483050847457633

The average confidence is 0.6074180231301151

--- Execution Time :: 696.9258649349213 seconds ---

Process finished with exit code 0