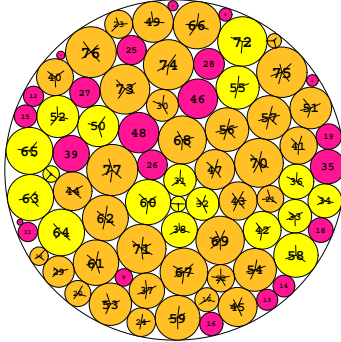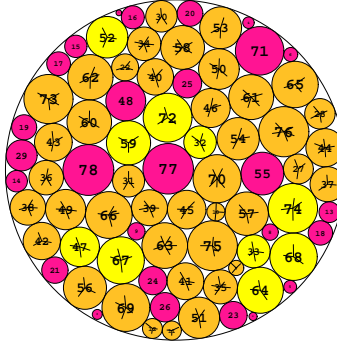## N = 77

77 circles in a circle

radius = 0.150200530438   density = 0.879847774411
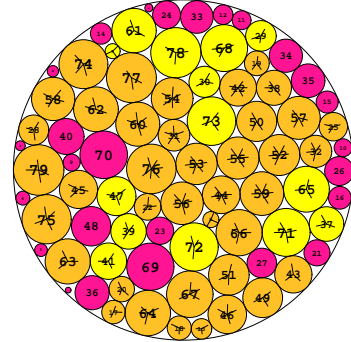ratio = 58.421660441561   contacts = 110

N = 78

78 circles in a circle

radius = 0.149317198387   density = 0.880677216501
ratio = 59.147646498345   contacts = 102
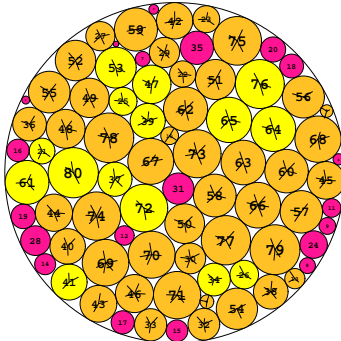
N = 79

79 circles in a circle

radius = 0.148462023534   density = 0.881638897276
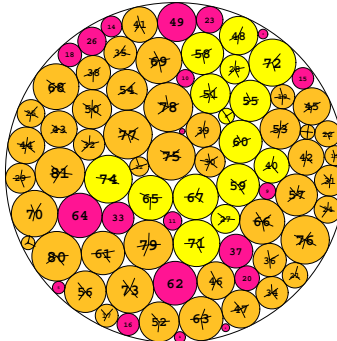ratio = 59.868471449617   contacts = 106

N = 80

80 circles in a circle

radius = 0.147513552392   density = 0.881290049647
ratio = 60.633560543688   contacts = 120
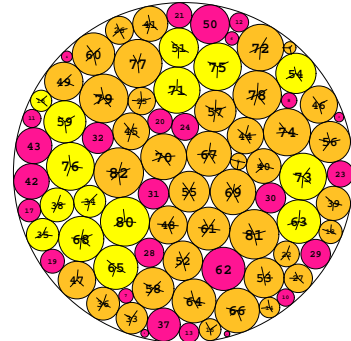
N = 81

81 circles in a circle

radius = 0.146625973913   density = 0.881466225264
ratio = 61.380666465940   contacts = 122
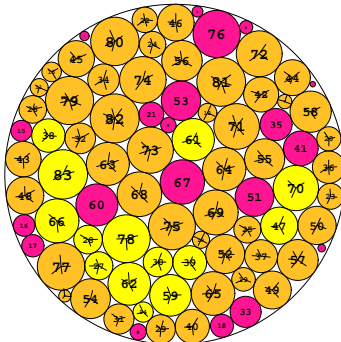
N = 82

82 circles in a circle

radius = 0.145807514584   density = 0.882282999325
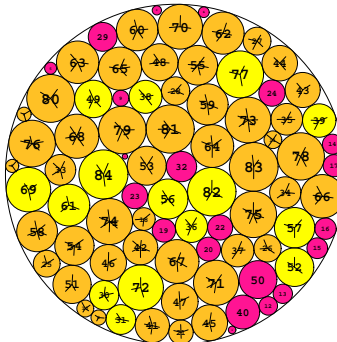ratio = 62.105064776659   contacts = 110

N = 83

83 circles in a circle

radius = 0.144882078272   density = 0.881614297383
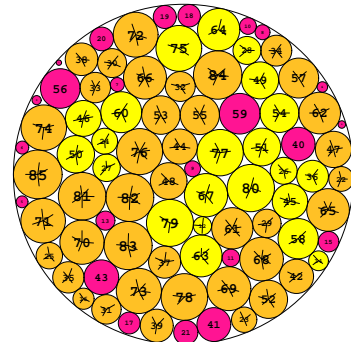ratio = 62.881715170139   contacts = 126

N = 84

84 circles in a circle

radius = 0.144060147861   density = 0.882016363580
ratio = 63.620310862955   contacts = 126
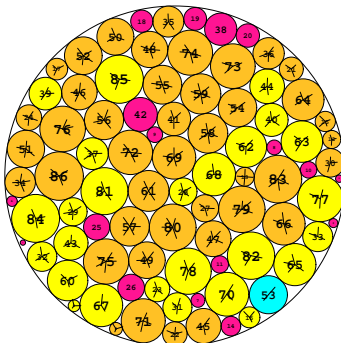
N = 85

85 circles in a circle

radius = 0.143220767725   density = 0.882024097227
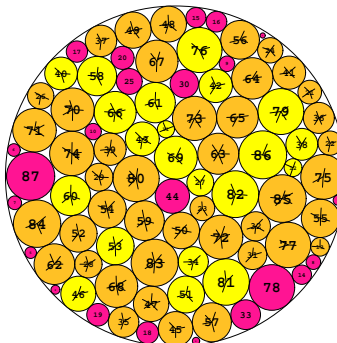ratio = 64.372957942982   contacts = 124

N = 86

86 circles in a circle

radius = 0.142444205097   density = 0.882630293103
ratio = 65.103515367357   contacts = 137
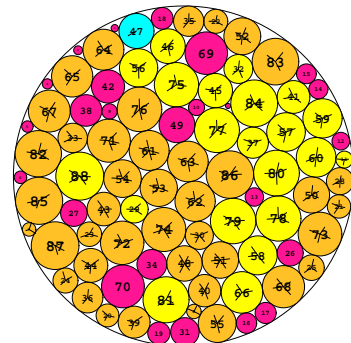
N = 87

87 circles in a circle

radius = 0.141634853218   density = 0.882658992430
ratio = 65.855111514976   contacts = 128

N = 88

88 circles in a circle

radius = 0.141018867507   density = 0.884941284184
ratio = 66.521818572915   contacts = 124