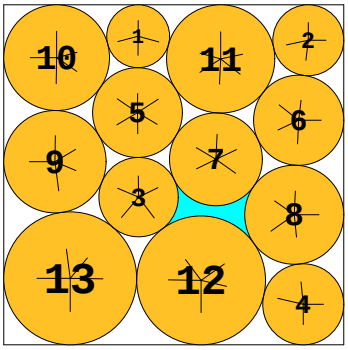
N = 13

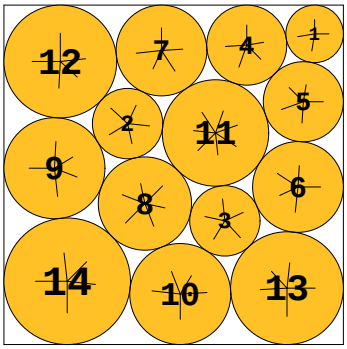
13 circles in a square



sumradii = 1.829542411692 density = 0.843172230057
sumperim = 11.495354000005 contacts = 39

N = 14

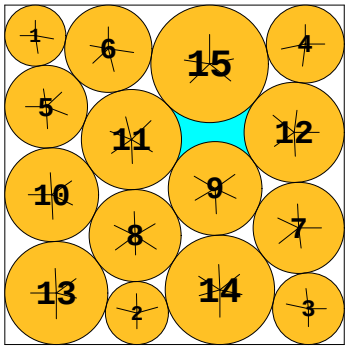
14 circles in a square



sumradii = 1.905667205293 density = 0.847885561040
sumperim = 11.973660184671 contacts = 43

N = 15

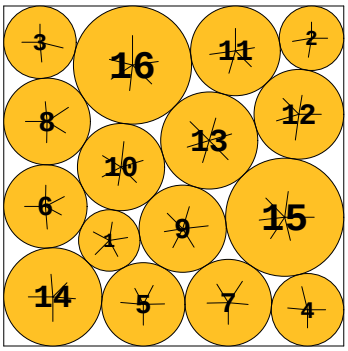
15 circles in a square



sumradii = 1.980266508444 density = 0.846184875220
sumperim = 12.442381430155 contacts = 45

N = 16

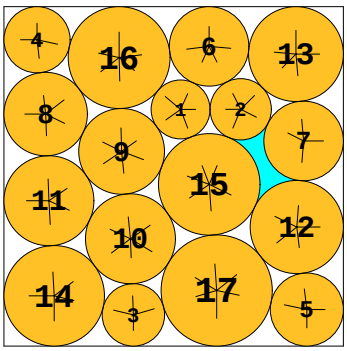
16 circles in a square



sumradii = 2.053080418439 density = 0.853389973899
sumperim = 12.899884719594 contacts = 49

N = 17

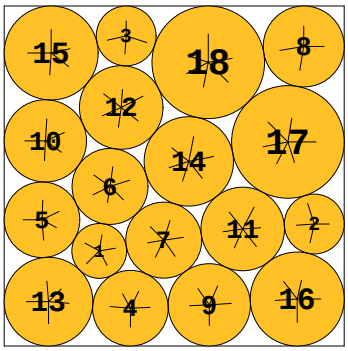
17 circles in a square



sumradii = 2.111185327830 density = 0.850943221106
sumperim = 13.264968632555 contacts = 51

N = 18

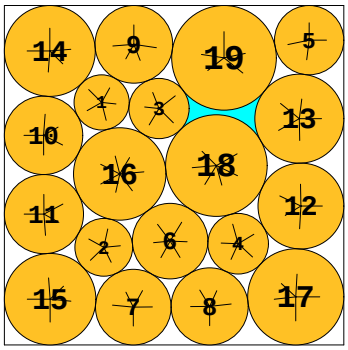
18 circles in a square



sumradii = 2.178530295972 density = 0.856434344552
sumperim = 13.688109546897 contacts = 55

N = 19

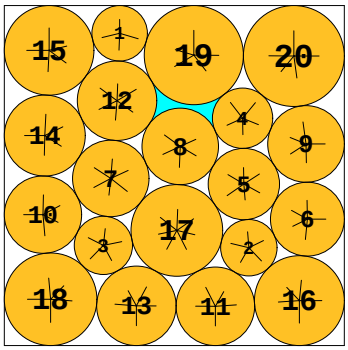
19 circles in a square



sumradii = 2.236704571294 density = 0.853822984295
sumperim = 14.053629298856 contacts = 57

N = 20

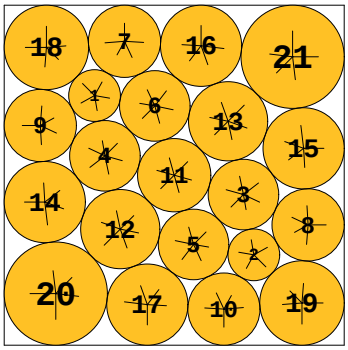
20 circles in a square



sumradii = 2.301122834497 density = 0.854890113387
sumperim = 14.458381183727 contacts = 60

N = 21

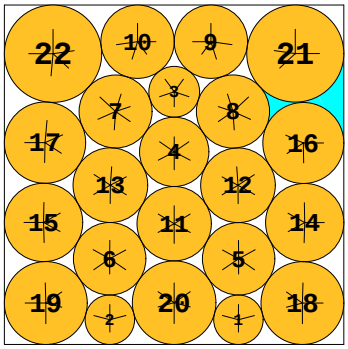
21 circles in a square



sumradii = 2.362117319374 density = 0.855805001847
sumperim = 14.841620834925 contacts = 64

N = 22

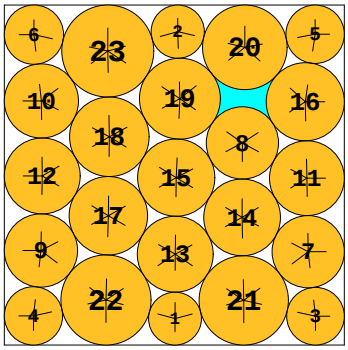
22 circles in a square



sumradii = 2.420202649747 density = 0.858428348511
sumperim = 15.206581729287 contacts = 66

N = 23

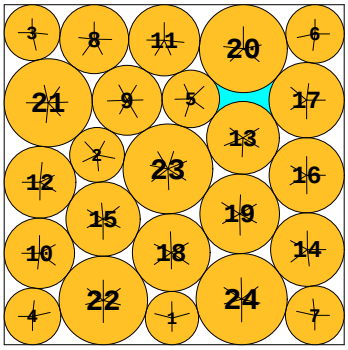
23 circles in a square



sumradii = 2.478013611963 density = 0.858563010053
sumperim = 15.569818717677 contacts = 69

N = 24

24 circles in a square



sumradii = 2.530311586971 density = 0.860593386358
sumperim = 15.898416585842 contacts = 72