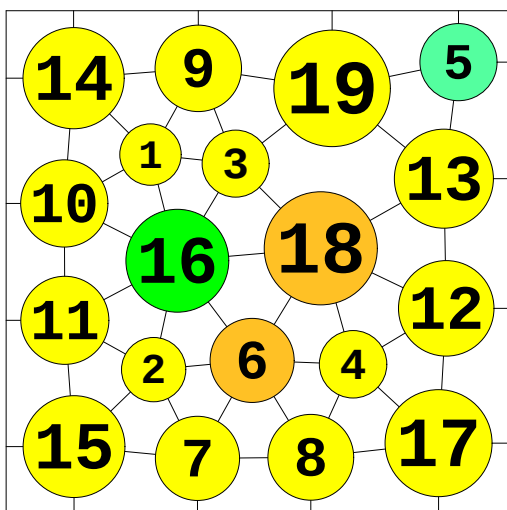
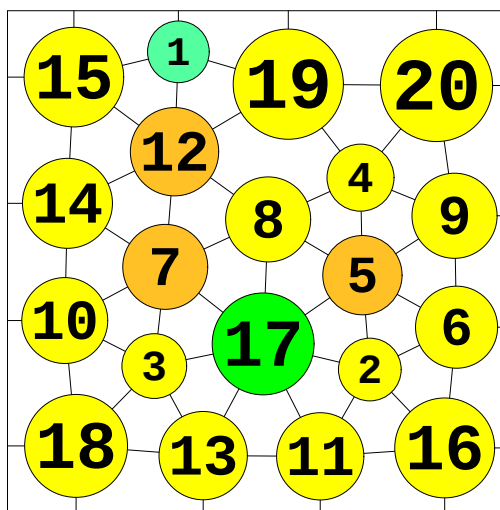


N = 19
19 circles in a square



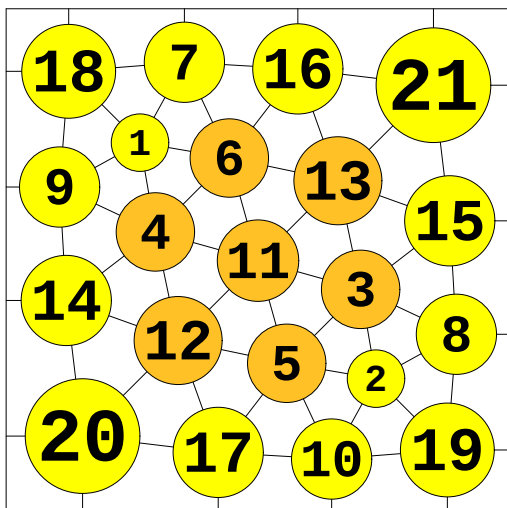
sumradii = 2.236704571294 density = 0.853822984295 © E. Secor
sumperim = 14.053629298856 contacts = 57 83-SEP-2020

N = 20
20 circles in a square



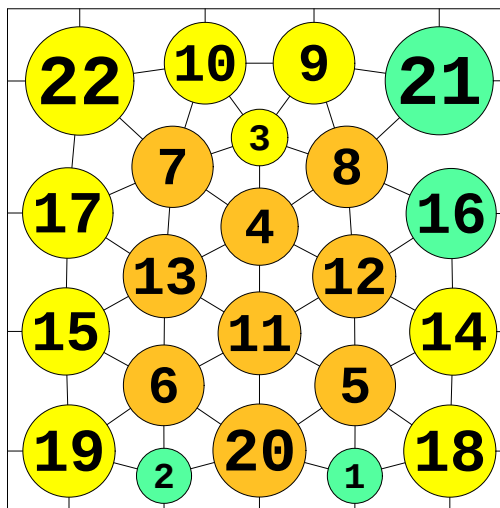
sumradii = 2.301122834497 density = 0.854890113387 © E. Secor
sumperim = 14.458381183727 contacts = 60 83-SEP-2020

N = 21
21 circles in a square



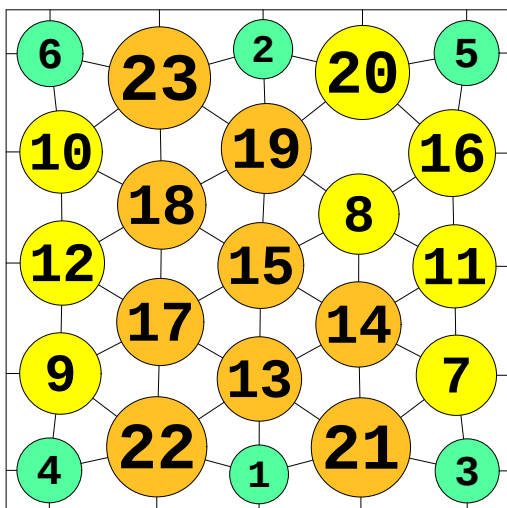
sumradii = 2.362117319374 density = 0.855805001847 © E. Secor
sumperim = 14.841620834925 contacts = 64 83-SEP-2020

N = 22
22 circles in a square



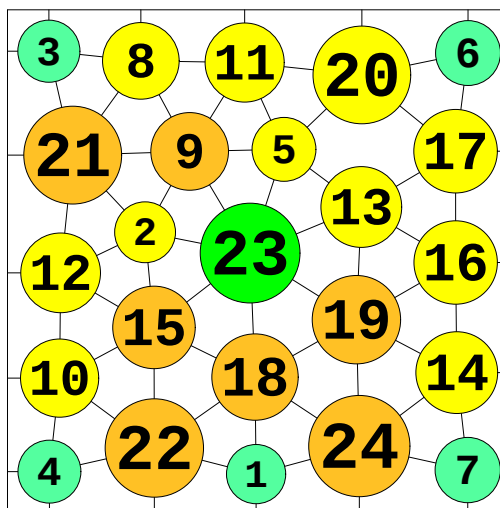
sumradii = 2.420202649747 density = 0.858428348511 © E. Secor
sumperim = 15.206581729287 contacts = 66 83-SEP-2020

N = 23
23 circles in a square



sumradii = 2.478013611963 density = 0.858563010053 © E. Secor
sumperim = 15.569818717677 contacts = 69 83-SEP-2020

N = 24
24 circles in a square



sumradii = 2.530311586971 density = 0.860593386358 © E. Secor
sumperim = 15.898416585842 contacts = 72 83-SEP-2020