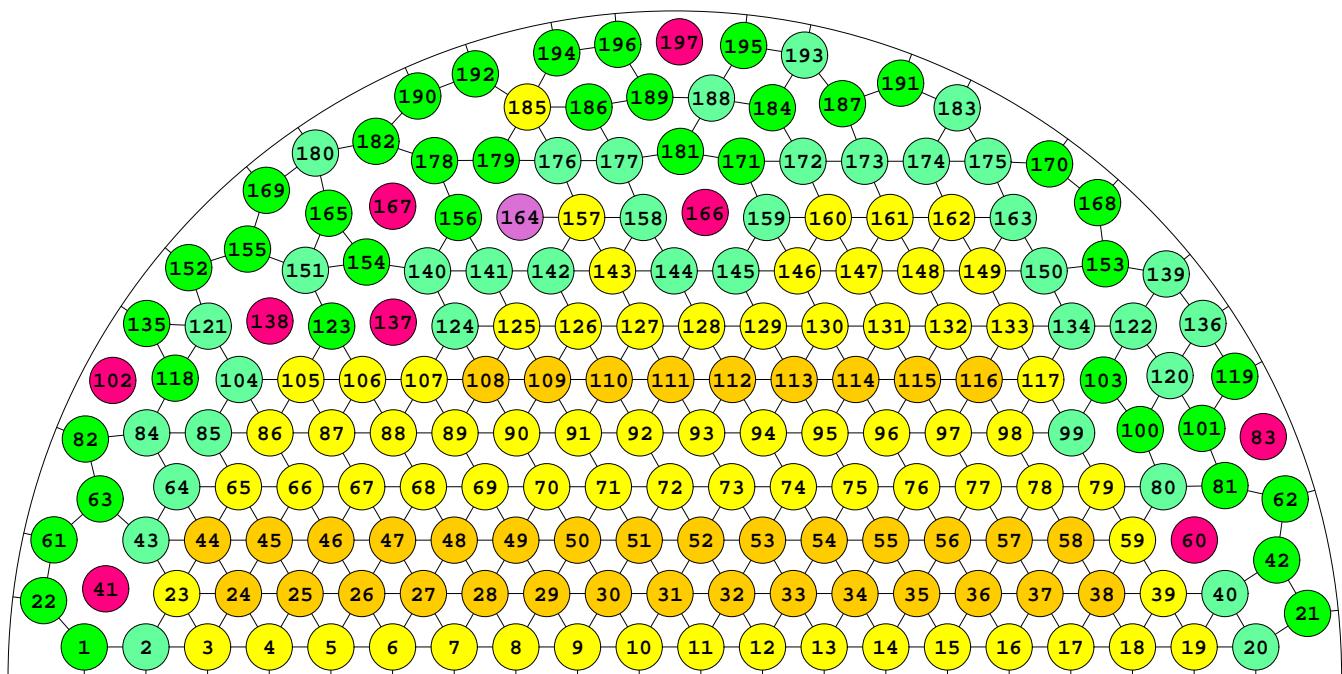


# 197 circles in a semicircle



radius = 0.046234828663  
ratio = 21.628716465736

density = 0.842237796320  
contacts = 450

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