

It is little Maya's first birthday. Her circular birthday cake has a candle in the center. Maya has yet to learn how to share so the cake has to be cut into congruent pieces. Grandpa is allergic to some non-organic substances (including wax), so his piece cannot touch the candle. How can we cut the cake into finitely many congruent pieces so that at least one of the pieces has no contact with the candle in the middle of the cake?