

GAMES

Consider the following two person game: A collection of pennies are placed one next to another on a straight line. A move consisting of removing one or two consecutive pennies (touching). The last person to remove a penny wins. Is there a winning strategy for either player one or player two?

Consider the following two person game: Given a 99×99 rectangular grid. Each player, in turn puts a penny in an open square which does not have a common horizontal or vertical edge with an occupied square. Initially the grid is empty. Is there a winning strategy for either player one or two? What if the grid is 100×100 ?