Working Backwards



A friend proposes a game to decide who picks up the next tab. There are six marbles of three colors - one, two, and three of each color. You and your friend take turns removing any number of marbles of the same color (except zero; at least one marble must be removed per turn), and whoever removes the last marble wins. Your friend offers to let you go first.



Problem. Should you accept the offer? Explain.



Submit your solution online by scanning QR code and filling out the form, or submit at

sites.google.com/unomaha.edu/unopow

A photo of handwritten work is fine. You can also turn in solutions physically at the UNO math department's mail room (located on the second floor of the Durham Science Center).