Problem of the Week

Problem D

Ten Pin Teaser

In ten-pin bowling, the highest possible score in a single game is 300.

At one point during the bowling season, Roland "Rollie" Strike had an average score of 177. In his next game he scored 199, increasing his average to 178. After one more game, Rollie would like his average score to be 183.

Is it possible for Rollie to accomplish this? If it is possible, what score must he earn in his next game? If it is not possible, explain why not.

