Consider an election in which there are exactly two candidates: A and B. Let \( a \) and \( b \) be the total number of votes received by A and B, respectively. The votes are cast by secret ballot and dropped into a box. The votes are counted by removing the ballots from the box one at a time, at random.

Suppose \( a \geq b \). (So, either the candidates tie, or A wins.) What is the probability that A never trails at any point during the vote counting?