

*Comments/solutions on the Blackboard discussion board please!*

A passenger aeroplane has 100 seats, numbered 1 to 100, and 100 passengers are about to board. Each passenger has an assigned seat. Passengers board the aircraft one at a time. The first person to board the aircraft sits down in a random seat instead of going to his/her own seat. After that, everybody who boards the aircraft will sit in his/her own seat if it is available, and will sit in a randomly chosen available seat if his/her own seat is already occupied. (For example the second person to get on will sit in his/her assigned seat unless that is the one that happened to be chosen by Person no. 1).

*What is the probability that the 100th person to board the aircraft will sit in the seat originally assigned to him/her?*