

Party Time

Level D

You have created a game to play with your friends.

You put red tiles and blue tiles into a bag.

You ask two guests, Mia and Tam, to pick one tile out of the bag without looking.

If their tiles are the same color, Mia wins, and if their tiles are two different colors, then Tam wins.

You want each player to have an equal chance of winning when playing the game.

How many tiles of each color should you put into the bag to make sure that both players have an equal chance of winning?

Explain your solution and why it is fair.

