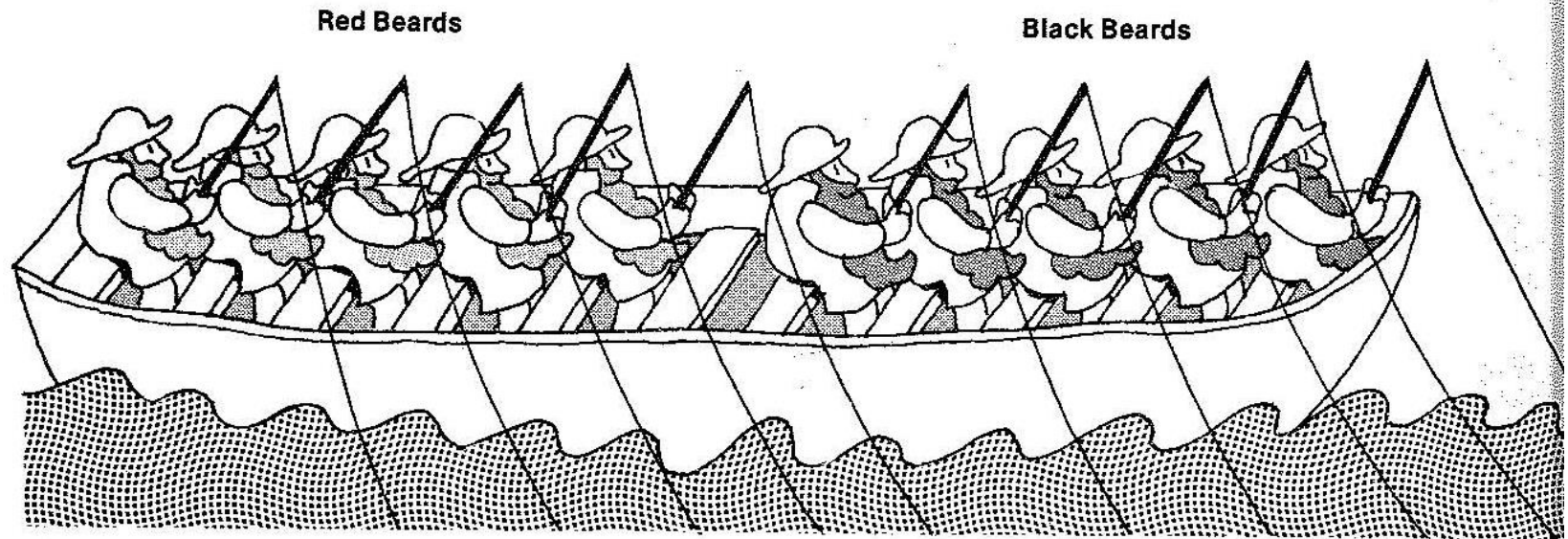


Ten Men in a Boat Part 1



All the fishermen in the stern have red beards and all the fishermen in the bow have black beards. The five men in the back of the boat decide that the fishing is better in the front, and the five in the front decide the fishing is better in back. They all agree to change places. To ensure that the boat will not capsize, they also agree to the following rule: *Any man can move to an empty seat next to him or climb over at most one man into an empty seat on the other side.* What is the minimum number of moves required for all the fishermen in the front of the boat to change places with those in the back?

Use the "boat" below to model this problem.

