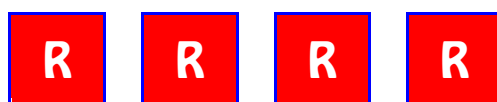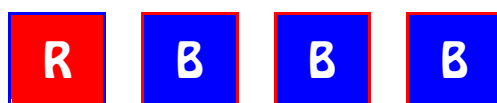## You Need

- About ten [10] tiles: blue one side ... red the other (Colours may vary)

Rules

Put four [4] reds in a row like this:

Turn over *all except one* (any one) at a time, for example:

Keep turning until you make the whole row blue.

Your Task

1. What is the least number of moves to make the row blue?
2. Start with three [3] reds and turn over *all except one* - that means turn over any two [2].
3. Explore starting with other numbers of red. The turning rule is always the same - turn over *all except one*.

Challenge

If I tell you any number of reds, can you tell me:
(a) if the problem can be done, and
(b) the number of moves?

RED TO BLUE