CHANGE THE POSITION-6

If you want to know some more...

In the previous activity you have been able to see the advantages of using a good code and the importance of analyzing the relations and the sequences. In order to know the game in its totality you will have to discover the general relation, that is to say, you will have to **generalize.**

If you **complete** this board and you analyze the relation between the two variables that are considered, you will get the general relation, that is to say, the **FORMULA** that gives us the minimum number of movements necessary to exchange n red cubes and n blue cubes, depending on n.

Number of cubes of each color	Minimum number of movements
1	
2	
3	
4	
5	
...	**...**
10	
...	**...**
n	

Try now to write down the **code of the minimum necessary movements** to exchange the position of 6 cubes of each color.

Verify that it is right indeed and that the number of movements match up with the result of applying the formula you have previously obtained.

YOU WILL NEED:

6 cubes of each, the sheet of game 2 (13 squares), a pencil and a blank sheet.