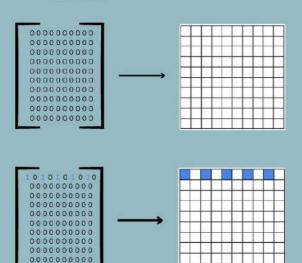
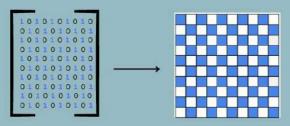
MATRICES IN WEAVINGS

In mathematics and informatics, this process can be viewed as a square matrix which has all its elements 0 in the beggining. Let's say we have i=1,10 - the row index and j=1,10 - the column index. In order to make this pattern we have to change each element that has both i and j even or odd.

Examples:

- matrix[5][8]=0 because 5 is odd and 8 is even
- matrix[6][4]=1 because 6 and 4 are both even
- matrix[3][7]=1 because 3 and 7 are both odd





Here's the C++
code



WEAVING LOOM



Bucur Ștefania, Sas Alexia, Trenca Ilinca, Dălălău Vlad, Haiduc Alesia, Irimuș Cezara, Buga Sorana Colegiul Național "Emil Racoviță"

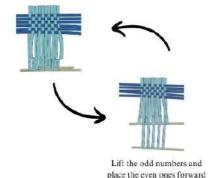
Choose your own way of weaving and try to build a "machine" that can make it with paper strips.





THE MECHANISM

Lower the odd numbers and place the even ones backward



weaving which consists of 20 paper strips: 10 vertical ones and 10 horizontal ones. Because we wanted to build a weaving robot, we started by weaving the strips ourselves to find a pattern.

Our idea is to make a

THE VERTICAL STRIPS



In order to move the 2 sets of vertical strips simultaneously, we have to connect the sticks to a string and place it on the wheels, which are used as pulleys

THE HORIZONTAL STRIPS

For this part we used 2 wheels: one for pushing the paper strips forward from their initial position on the rail, and the other for moving the rail to the next strip



WHAT ABOUT A 3 STRAND BRAID?











3-2-1