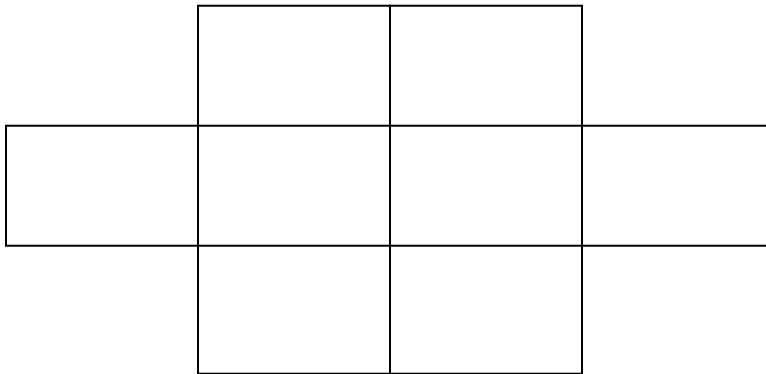


### Eight Numbers in a Cross

In the solution to this problem, use the backtracking scheme that we covered in class.



**Write a program** which allocates the integers 1-8 to the squares in the figure above, subject to the restrictions that no two adjacent squares contain consecutive integers.

By adjacent we mean vertically, horizontally, or diagonally.