



Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: February 2025

At the beginning there are 111 distinguishable balls on the red table and the white table is empty. Starting with a red table we *alternatively* apply moves to the tables. In a move applied to a given table we choose some collection of balls from this table and transfer them to the other table. Find the maximal possible number of moves if each ball collection can be chosen at most once.