

# Bilkent University <br> Department of Mathematics 

## Problem Of The Month

Term: June 2012

In how many ways the set $\{1,2, \ldots, 2012\}$ can be partitioned into two subsets so that for any two distinct elements $a$ and $b$ belonging to the same subset $a+b \neq 3^{k}, k=1,2, \ldots$.

