

Bilkent University
Department of Mathematics

## Problem Of The Month

Term: February 2023

We say that two monic quadratic polynomials $P(x)=x^{2}+a x+b$ and $Q(x)=x^{2}+c x+d$ with integer coefficients are disjoint if $P(i) \neq Q(j)$ for any two integers $i$ and $j$. Find the maximal number of pairwise disjoint monic quadratic polynomials with integer coefficients.

