Bilkent University
Department of Mathematics

PROBLEM OF THE MONTH

Term: December 2007

Let $\{a_n\}$ be an increasing sequence of positive integer numbers. The term a_k of this sequence is said to be *good* if $a_k = t_l a_l + t_m a_m$ for some indices l and m and some positive integer numbers t_l and t_m. Prove that all but finite number of terms of this sequence are *good*.