Bilkent University
Department of Mathematics

Problem Of The Month

Term: December 2011

A sequence $\{a_n\}$ is said to be good if $a_1 = 1$ and $|a_{k+1}| = |a_k + 1|$. Let $c_n = min|\sum_{i=1}^{n} a_i|$, where the minimum is taken over all good sequences. Prove that the sequence $\{c_n\}$ is unbounded from above.