Bilkent University
Department of Mathematics

Problem Of The Month

Term: February 2019

There are k heaps of beads containing 2019 beads in total. In each move we choose a heap: either remove it or divide it into two not necessarily equal parts. Find the maximal possible value of k such that for any initial distribution of beads after finite number of moves one can get k heaps with pairwise distinct number of beads.