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Alessio Moscariello and **Alessio Sammartano*** (asammart@purdue.edu). *A conjecture of Wilf on the Frobenius number.*

The Frobenius number F of given coprime positive integers $a_1 < \dots < a_d$ is the largest integer which is not representable as a non-negative integer combination of the a_i 's. Let n denote the number of integers less than F admitting such a representation: Wilf conjectured in 1978 that $F+1 \leq nd$. The inequality has an interpretation in terms of one-dimensional local rings. We will discuss some recent progress on the conjecture, as well as some related problems. (Received August 12, 2014)