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On a conjecture of Pomerance

L. Hajdu, N. Saradha, R. Tijdeman

(Submitted on 26 Jul 2011)

We say that k is a P-integer if the first phi(k) primes coprime to k form a reduced residue system modulo k. In 1980 Pomerance proved the finiteness of the set of P-integers and conjectured that 30 is the largest P-integer. We prove the conjecture assuming the Riemann Hypothesis. We further prove that there is no P-integer between 30 and 10^11 and none above 10^3500.

Comments:	10 pages. Submitted to Acta Arithmetica
Subjects:	**Number Theory (math.NT)**
MSC classes:	11N13
Cite as:	**arXiv:1107.5191** [math.NT]
	(or **arXiv:1107.5191v1** [math.NT] for this version)

Submission history

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