1067-11-921Lenny Jones* (lkjone@ship.edu), Department of Mathematics, Shippensburg University, 1871
Old Main Drive, Shippensburg, PA 17257. Appending Digits to Generate an Infinite Sequence of
Composite Numbers I.

Let $d \in \{0, 1, ..., 9\}$, and let k be a positive integer. We generate an infinite sequence $\{s_n\}_{n=1}^{\infty}$ of positive integers by repeatedly appending the digit d on the right of k. For example, if k = 35 and d = 1, then the sequence $\{s_n\}_{n=1}^{\infty}$ is:

 $s_1 = 351, \quad s_2 = 3511, \quad s_3 = 35111, \quad s_4 = 351111, \ldots$

For each value of d, we investigate when there exist infinitely many positive integers k such that every term of the sequence $\{s_n\}_{n=1}^{\infty}$ is composite. (Received September 16, 2010)