1023-11-1373   **Carrie E Finch*** (`cfinch@math.sc.edu`), University of South Carolina, Department of Mathematics, LeConte College - 1523 Greene Street, Columbia, SC 29208. *Sequences of reducible 0, 1-polynomials with exponents in arithmetic progression.* Preliminary report.

For fixed natural numbers k and d, we form the sequence of polynomials $1 + x^k + x^{k+d}$, $1 + x^k + x^{k+d} + x^{k+2d}$, $1 + x^k + x^{k+d} + x^{k+2d} + x^{k+3d}$, ..., terminating the sequence when we encounter the first ireducible polynomial. We discuss the relationship between k, d and the length of this sequence. (Received September 25, 2006)