1014-13-1679Hamid Kulosman\* (h0kulo01@louisville.edu), Department of Mathematics, 328 Natural<br/>Sciences Building, University of Louisville, Louisville, KY 40292. An inductive algorithm for<br/>constructing c-sequences. Preliminary report.

Let  $a_1, a_2, ..., a_n$  be elements in a commutative ring R and I the ideal they generate. A sequence  $\langle a_1, a_2, ..., a_n \rangle$  is a c-sequence if

$$[I_{i-1}I^k : a_i] \cap I^k = I_{i-1}I^{k-1}$$

for i = 1, 2, ..., n and  $k \ge 1$ . These sequences are interesting because they generate ideals of linear type. We talk about an inductive algorithm for constructing c-sequences. (Received September 28, 2005)