V-1 (Section LDS) Extend Theorem DLDS by proving the following theorem.

**Theorem 1**  
**DLDSFV (Dependency in Linearly Dependent Sets, Following Vectors)** Suppose that \( S = \{u_1, u_2, u_3, \ldots, u_n\} \) is an ordered set of non-zero vectors. Then \( S \) is a linearly dependent set if and only if (without changing the order in which the vectors are written) there is an index \( t, 1 \leq t \leq n \) such that \( u_t \) equals a linear combination of the vectors \( u_1, u_2, u_3, \ldots, u_{t-1} \) which have subscripts smaller than \( t \).