

### Lallg3

If there are  $n$  vectors  $v_1, v_2, v_3, \dots, v_n$  in  $E^m$ , which spans a subspace of dimension  $k \leq n$ . if  $k < n$ , how many different linear dependencies will there be among  $v_1, v_2, v_3, \dots, v_n$ ? can we determine the theorem about the null space and range of a linear transformation about this?