Degree sequence of a Graph

Let $d_1, d_2, \ldots, d_n$ be the degree of the vertices $v_1, v_2, \ldots, v_n$ of a graph G such that $d_1 \leq d_2 \leq \ldots \leq d_n$, then the finite sequence $(d_1, d_2, \ldots, d_n)$ is called the degree sequence of G.

Properties for draw a graph from degree sequence.

① If the sum of the degree of the vertices is not even then the graph corresponding to the given degree sequence can't be drawn.

② If the total no. of odd number vertices is odd then the graph corresponding to given sequence can't be drawn.

③ The degree of a vertex of a simple graph G on 'n' vertices can not exceed $(n-1)$.

i.e $d_i \leq n-1$ for all $i = 1, 2, \ldots, n$.