Warshall's algorithm

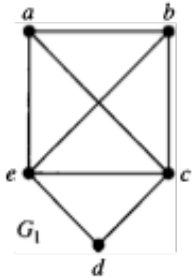
Exercise

Let us consider the graph G = (V,A) with set of vertices V = {1,2,3,4,5,6} and with family of arcs A = {(1, 2), (1, 4), (1, 5), (2, 3), (2, 5), (2, 6), (3, 4), (3, 5), (4, 2), (5, 6)}. Compute the reachable matriz using the Warshall's algorithm.Then obtain the connected components and determine if the graph G is connected.

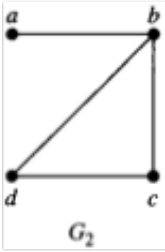
4. Hamilton paths and Hamilton cycles.

Exercises

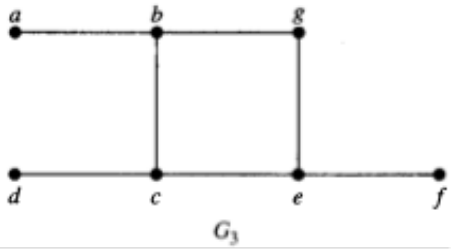
Which of the simple graphs in Figure have a Hamilton cycle or, if not, a Hamilton path?



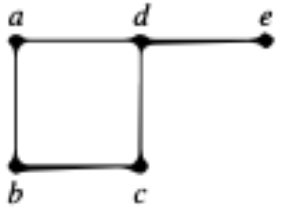
G_1



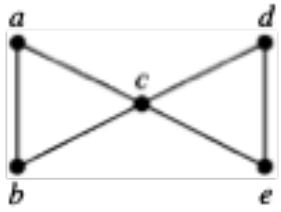
G_2



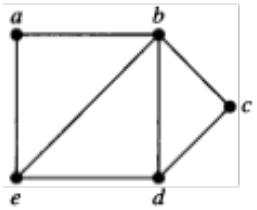
G_3



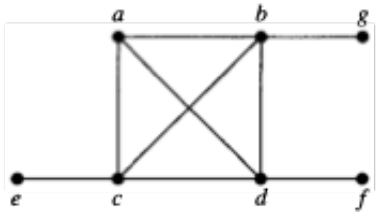
G_4



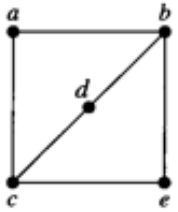
G_5



G_6



G_7



G_8