Problem 1. Euler Circuit

Problem G1 in lecture

graph has a Euler circuit

['a', 'e', 'c', 'd', 'e', 'b', 'a']

Problem G2 in lecture

graph is not Eulerian

Odd nodes are

['a', 'b', 'c', 'd']

Problem G3 in lecture

graph has a Euler path

Odd nodes are

['a', 'b']

Bridges of Konigsberg

graph has a Euler path

Odd nodes are

['a', 'd']

Test graph on assignment page

graph has a Euler circuit

['a', 'b', 'c', 'f', 'e', 'b', 'd', 'e', 'h', 'f', 'i', 'h', 'g', 'd', 'a']

Problem 2. Dirac's Theorem

Problem G1 in lecture

No Hamilton

False

Problem G2 in lecture

No Hamilton

False

Problem G3 in lecture

No Hamilton

False

Test graph on assignment page

No Hamilton

False

Problem 3. Ore's Theorem

Problem G1 in lecture

Hamilton

True

Problem G2 in lecture

No Hamilton

False

Problem G3 in lecture

No Hamilton

False

Test graph on assignment page

No Hamilton

False