

Formleg mál og reiknanleiki

Pétur

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1

$O(n)$

2

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a)

The Hamilton path is.

$$a \longrightarrow f \longrightarrow g \longrightarrow e \longrightarrow d \longrightarrow b \longrightarrow c$$

b)

Four edges can be removed so that Hamilton path still exist.

c)

Suppose G has a Hamilton circle. There are two nodes that contradict that G is Hamilton circle. Node b and node e. Either node b or e are always visit it twice. Depending on witch path is taken.

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a) Yes it is satisfiable

b) No it is not satisfiable

c) Yes it is satisfiable