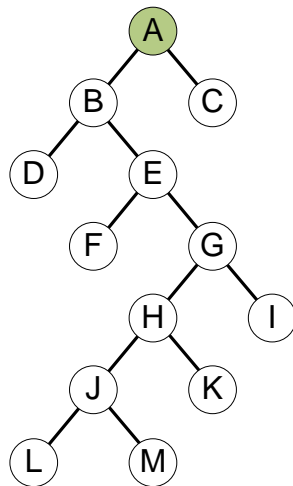


Homework 4

(Due on March 20, 2008)

Assuming that the edges are chosen based on the node priority (e.g. \overline{AB} is chosen before \overline{AC} ; \overline{BD} is chosen before \overline{BE}), and assuming the search remembers previous-visited nodes and will not repeat them. Please answer the questions on the basis of the given graphs

1.



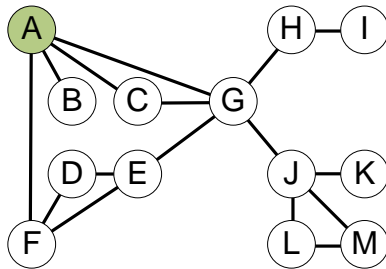
Starting from A (the green node)

- Please represent the graph with array approach
- Please represent the graph with list approach
- What is the order of node exploring by depth first search?
- What is the order of node exploring by breadth first search?

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2.



Starting from A (the green node)

(a) Please represent the graph with array approach

(b) Please represent the graph with list approach

(c) What is the order of node exploring by depth first search?

(d) What is the order of node exploring by breadth first search?