

Depth-First Search (DFS) and Edge Classification

4. In DFS of a connected undirected graph G , we get only tree and back edges. No forward or cross edges. Answer as concisely and clearly as possible. Long or unstructured will not receive maximum credit.

(a) (13 points) Show that you cannot have a Forward edge.



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(b) (13 points) Show by contradiction that you cannot have a Cross edge.

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Question:	1	2	3	4	Total
Points:	20	28	26	26	100



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