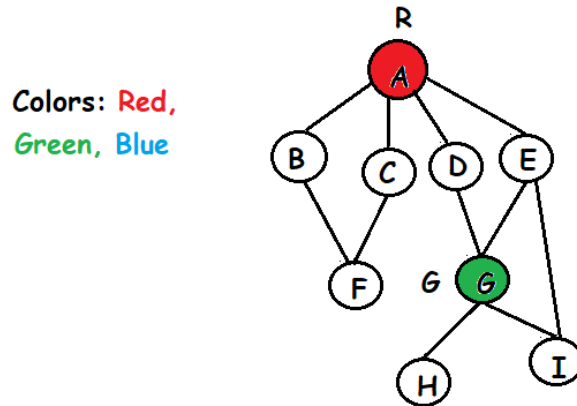


CSE 422: *ASSIGNMENT 1 on CSP*

1. **Explain** the concept of forward checking with an example. (5 marks)
2. Suppose, the following graph represents a map coloring CSP problem. You are trying to color the following graph with 3 colors: Red, Green and Blue such that no two adjacent nodes have the same color. Node A is already colored as Red (R) and node G is colored as Green (G).



Assess which node will be visited in the following map coloring example if

- (a) Degree heuristic is used. **Explain** your answer. (2.5 marks)
- (b) According to Least constraining value heuristic, which color will be chosen for node **B** in the given graph? **Explain** your answer. (2.5 marks)