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Ans₁) Time complexity in water jug problem is determined by the no. of possible states that need to be explored to find solution. If we have 2 jugs (m) and (n) the time complexity will be their products $O(m \times n)$

Ans₂) Depth First is used to explore a path as far as possible before backtracking, which can lead to hay exploration. Hence Breadth first search is used for systematic exploration.