Algorithm

1. Construct G(V, E):
    - V is divided into 4 parts $(start, V_{cube}, V_{char}, end)$
        - Think of each cube or each character in the word as a vetex
        - Add two nodes: start and end
    - E is divided into 3 parts $(E_{s2cube}, E_{char2end}, E_{cube2char})$
        - Start has edges to any cube vertex
        - Any character vertex has an edge to end.
        - The cube vertex has an edge to the char vertex if it has the the char in its list of letters.
2. Translate G to a flow network:
    - the capacity of each edge is 1
    - the initial flow of each edge is 0
3. So judging whether the word can be formed is equivalent to compute wheather the maximum flow in the graph equals the length of the word
4. Use Folk-Fulkerson algorithm to compute the maximum flow
5. In the case that maximum flow equals the length of the word, the cube forms the character if the flow between their nodes is 1
6. Output the result