CYK: A Bottom-Up Dynamic Programming Algorithm for the Context-Free Recognition Problem

Use the CYK algorithm to decide whether the input string `iiaewaea` is generated by the grammar:

1. `S -> a`
2. `S -> IS`
3. `S -> WS`
4. `S -> BC`
5. `B -> IS`
6. `C -> ES`
7. `I -> i`
8. `E -> e`
9. `W -> w`

