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| Write a C program to implement a DFA accepting binary strings ending with ‘00’. |
| **ALGORITHM**  **Input**: A string with characters ‘0’ and ‘1’  **Output**: Whether the given string is valid or not.  **Data structures**: Array  Step 1: Start  Step 2: Initialize a character array and input the string.  Step 3: Declare two variables state and i.  Step 4: while input[i]! =’\0’, do  4a) State is changed according to the current state and input[i]  4b) if no condition is true then state=’3’  4c) increment i.  Step 5: If state is equal to final state, print valid string. Otherwise print invalid string.  Step 6: Stop  **DFA**    **Transition Table**    **OUTPUT** |