

Machine: DNA Complementer
Tape Input(s): ['ATCG', '*****']

Step 1:
Tape 1: ATCG
Tape 2: *****
Selected Transition: ('q0', ('A', '*')) -> q0, ('A', 'T'), ('R', 'R')

Step 2:
Tape 1: A TCG
Tape 2: T ***
Selected Transition: ('q0', ('T', '*')) -> q0, ('T', 'A'), ('R', 'R')

Step 3:
Tape 1: AT CG
Tape 2: TA **
Selected Transition: ('q0', ('C', '*')) -> q0, ('C', 'G'), ('R', 'R')

Step 4:
Tape 1: ATC G
Tape 2: TAG *
Selected Transition: ('q0', ('G', '*')) -> q0, ('G', 'C'), ('R', 'R')

Step 5:
Tape 1: ATCG _
Tape 2: TAGC _
Selected Transition: ('q0', ('*', '*')) -> qacc, ('*', '*'), ('S', 'S')

Machine Accepted