# 44. Wildcard Matching

## SOLUTION IN JAVA

class Solution {

public boolean isMatch(String s, String p) {

final int m = s.length();

final int n = p.length();

boolean[][] dp = new boolean[m + 1][n + 1];

dp[0][0] = true;

for (int j = 0; j < p.length(); ++j)

if (p.charAt(j) == '\*')

dp[0][j + 1] = dp[0][j];

for (int i = 0; i < m; ++i)

for (int j = 0; j < n; ++j)

if (p.charAt(j) == '\*') {

final boolean matchEmpty = dp[i + 1][j];

final boolean matchSome = dp[i][j + 1];

dp[i + 1][j + 1] = matchEmpty || matchSome;

} else if (isMatch(s, i, p, j)) {

dp[i + 1][j + 1] = dp[i][j];

}

return dp[m][n];

}

private boolean isMatch(final String s, int i, final String p, int j) {

return j >= 0 && p.charAt(j) == '?' || s.charAt(i) == p.charAt(j);

}

}