

Problem- 02

Code:-

```
#include <iostream>

#include <vector>

using namespace std;

const long long MOD = 1e9 + 7;

int main() {
    ios_base::sync_with_stdio(false);
    cin.tie(NULL);
    cout.tie(NULL);

    // Input
    long long n;
    cin >> n;

    // Initialization
    vector<vector<long long>> dp(n + 1, vector<long long>(n + 1, 0));
    dp[0][0] = 1;

    // Dynamic Programming
    for (long long i = 0; i < n; ++i) {
        string s;
```

```
cin >> s;
```

```
for (long long j = 0; j < n; ++j) {
```

```
    if (s[j] == '*') {
```

```
        dp[i][j] = 0;
```

```
    } else {
```

```
        if (i > 0) dp[i][j] = (dp[i][j] + dp[i - 1][j]) % MOD;
```

```
        if (j > 0) dp[i][j] = (dp[i][j] + dp[i][j - 1]) % MOD;
```

```
    }
```

```
}
```

```
}
```

```
// Output
```

```
cout << (n > 0 ? dp[n - 1][n - 1] % MOD : -1);
```

```
return 0;
```

```
}
```