long long countStrings(vector<char> &library, int L, int K) {

vector<vector<long long>> dp(L + 1, vector<long long> (256, 0));

for (int i = 0; i < (int) library.size(); ++i) {

int symbol = (int) library[i];

dp[1][symbol] = 1;

}

dp[1][255] = (int) library.size();

for (int i = 2; i <= L; ++i) {

long long end = 0;

for (auto &cur: library) {

int curSymbol = (int) cur;

for (int k = 0; k <= K; ++k) {

if (i - k < 0) break;

long long total = dp[i - k][255] - dp[i - k][curSymbol];

end += total;

}

dp[i][curSymbol] = end;

}

dp[i][255] = end;

}

long long ans = 0;

for (int i = 0; i < 255; ++i) ans += dp[L][i];

return ans;

}