1035. Uncrossed Lines <medium>

class Solution {

//int dp[501][501];

public:

int maxUncrossedLines(vector<int>& A, vector<int>& B) {

int M = A.size();

int N = B.size();

vector<vector<int>> dp(M+1, vector<int>(N+1));

for (int i = 1; i <= M; ++i){

for (int j = 1; j <= N; ++j){

if(A[i-1] == B[j-1])

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

else

dp[i][j] = max(dp[i][j-1], dp[i-1][j]);

}

}

return dp[M][N];

}

};