class Solution {

int memo(int[][] dp, int[] A, int[] B,int m, int n)

{

if(m==-1|| n==-1)

return 0;

if(dp[m][n]==-1)

{

if(A[m]==B[n])

dp[m][n]=1+(memo(dp,A,B,m-1,n-1));

else

dp[m][n]=Math.max(memo(dp,A,B,m-1,n),memo(dp,A,B,m,n-1));

}

return dp[m][n];

}

public int maxUncrossedLines(int[] A, int[] B) {

int m=A.length,n=B.length;

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

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

{

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

dp[i][j]=-1;

}

return memo(dp,A,B,m-1,n-1);

}

}