**Edit Distance**

int editDistance(string str1, string str2)

{

//write you code here

int n = str1.size();

int m = str2.size();

vector<int> dp(m+1, 0);

for(int j=0; j<=m; j++) dp[j] = j;

for(int i=1; i<=n; i++)

{

int diag = dp[0];

dp[0] = i;

for(int j=1; j<=m; j++)

{

int temp;

if (str1[i - 1] == str2[j - 1]) {

temp = dp[j];

dp[j] = diag;

}

else {

int insert = 1 + dp[j - 1];

int del = 1 + dp[j];

int replace = 1 + diag;

temp = dp[j];

dp[j] = min(insert, min(del, replace));

}

diag = temp;

}

}

return dp[m];

}