editDistance.cpp

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#include<bits/stdc++.h>
using namespace std;
char str1[2001];
char str2[2001];
int dp[2001][2001];
int main(){
    cin.tie(0);
    ios_base::sync_with_stdio(0);
    #ifdef LOCAL
        freopen("input.txt", "r", stdin);
    #endif // LOCAL
    int t;
    cin>>t;
    while(t--){
        cin>>strl>>str2;
        int d1, d2, d3, i, len1, len2;
        len1 = strlen(str1);
        len2 = strlen(str2);
        for(i = 0; i <= len1; i++)</pre>
             dp[i][0] = i;
        for(i = 1; i <= len2; i++)</pre>
            dp[0][i] = i;
        for(i = 1; i \le len1; i++){
             for(int j = 1; j <= len2; j++){</pre>
                 d1 = (str1[i-1] == str2[j-1] ? 0:1) + dp[i-1][j-1]; //Substitution
                 d2 = dp[i][j-1]+1; //Insertion
                 d3 = dp[i-1][j]+1; //Deletion
                 dp[i][j] = min(d1, min(d2, d3));
             }
        cout << dp[len1][len2] << endl;</pre>
    }
}
```