x = input("Enter x value: ")

y = input("Enter y value: ")

x = [None] + list(x)

y = [None] + list(y)

x\_len = len(x)

y\_len = len(y)

matrix = []

matrix\_min = []

for x\_id, x\_val in enumerate(x):

row = []

if x\_val is None :

matrix.append(range(y\_len))

else:

for y\_id, y\_val in enumerate(y):

if y\_val is None :

row.append(x\_id)

elif x\_val == y\_val :

row.append( matrix[x\_id-1][y\_id-1] )

elif x\_val != y\_val :

min\_val = min(

row[y\_id-1]+1,

matrix[x\_id-1][y\_id]+1,

matrix[x\_id-1][y\_id-1]+2

)

row.append(min\_val)

matrix.append(row)

print "String edit matrix"

for x\_id, x\_val in enumerate(matrix):

print(" | ".join(str(x) for x in x\_val))

for x\_id, x\_val in enumerate(x):

row = []

if x\_val is None :

matrix.append(range(y\_len))

else:

for y\_id, y\_val in enumerate(y):

if y\_val is None :

row.append(x\_id)

elif x\_val == y\_val :

row.append( matrix[x\_id-1][y\_id-1] )

elif x\_val != y\_val :

min\_val = min(

row[y\_id-1],

matrix[x\_id-1][y\_id],

matrix[x\_id-1][y\_id-1]

) + 1

row.append(min\_val)

matrix.append(row)

print "Minimum edit count"

print matrix[len(matrix)-1][-1]