Command? h

Q Query the city information by entering the city code.

D Find the minimum distance between two cities.

I Insert a road by entering two city codes and distance.

R Remove an existing road by entering two city codes.

H Display this message.

E Exit.

Command? q

City code: LV

12 LV LEE VINING 8390 5983

Command? D

City codes: Ch pM

The minimum distance between CHINO HILLS and POMONA is 143 through the route: CH, PR, TR, PM

Command? i

City codes and distance: gg bo 100

You have inserted a road between GARDEN GRPVE and BOSSTOWN with a distance of 100.

Command? r

City codes: kv mp

The road from KERNVILLE to MOUNTAIN PASS doesn't exist.

Command? i

City codes and distance: gg bo 100

The road from GARDEN GRPVE to BOSSTOWN already exists.

Command? r

City codes: gg bo

The road from GARDEN GRPVE to BOSSTOWN was removed.

Command? d

City codes: gg bo

The minimum distance between GARDEN GRPVE and BOSSTOWN is 123 through the route: GG, LI, BK, LV, BO

Command? d

City codes: li bo

The minimum distance between LAKE ISABELLA and BOSSTOWN is 121 through the route: LI, BK, LV, BO

Command? d

City codes: an ww

The minimum distance between ANAHEIM and WRIGHTWOOD is 153 through the route: AN, VV, CH, GG, WW

Command? d

City codes: ww an

A path from WRIGHTWOOD to ANAHEIM doesn't exist.

Command? d

City codes: ww bo

A path from WRIGHTWOOD to BOSSTOWN doesn't exist.

Command? i

City codes and distance: an ww 1

You have inserted a road between ANAHEIM and WRIGHTWOOD with a distance of 1.

Command? d

City codes: an ww

The minimum distance between ANAHEIM and WRIGHTWOOD is 1 through the route: AN, WW

Command? d

City codes: an an

The cities entered are the same, therefore the path cost is 0.

Command? e