

Problem #1

Shortest Path in Alabama

Write a program to find the shortest routing and distance between two Alabama cities using the following distance table. You are not allowed to use any other manually computed distances in your program.

Alabaster-Birmingham	24 miles
Alabaster-Montgomery	71 miles
Birmingham-Huntsville	103 miles
Birmingham-Tuscaloosa	59 miles
Demopolis-Mobile	141 miles
Demopolis-Montgomery	101 miles
Demopolis-Tuscaloosa	65 miles
Mobile-Montgomery	169 miles
Montgomery-Tuscaloosa	134 miles

Example 1:

Enter city #1: Demopolis
Enter city #2: Birmingham
Shortest routing and distance:
Demopolis-Tuscaloosa-Birmingham, 124 miles

Example 2:

Enter city #1: Mobile
Enter city #2: Huntsville
Shortest routing and distance:
Mobile-Montgomery-Alabaster-Birmingham-Huntsville, 367 miles