

Exercise - Migros Delivery
ITC 542 Advanced Algorithms and Programming
Yiğit Keser

Solution :

To solve this problem, I tried to find all possible combinations and find the one with the shortest distance between them.

After removing the migros location from the data and finding all the ranking combinations of the remaining locations, I took all the paths that can be used in a list by adding migros to the beginning and end.

It took 90 minutes to find the result on my computer, I added output for you.

```
Removing all variables...

In [36]: runfile('/Users/yigitkeser/Desktop/Advanced Programming/Exercise/
Exercise.py', wdir='/Users/yigitkeser/Desktop/Advanced Programming/Exercise')
***data1***:
Permutasyon sayısı : 39916800
En kısa route numarası : Route 31840976
Kullanılan route : [9, 8, 7, 6, 5, 4, 3, 2, 1, 0, 11, 10, 9]
Toplam Yol : 2.2188511495296326
***data2***:
Permutasyon sayısı : 39916800
En kısa route numarası : Route 8452375
Kullanılan route : [9, 2, 4, 3, 8, 0, 6, 7, 5, 1, 10, 11, 9]
Toplam Yol : 1.1089947176124175
***data3***:
Permutasyon sayısı : 39916800
En kısa route numarası : Route 4200343
Kullanılan route : [10, 1, 2, 7, 3, 5, 9, 11, 4, 0, 6, 8, 10]
Toplam Yol : 2.8876465917372696
Toplam süre 90.78967966636021 dakika ---

In [37]:
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IPython console History

conda: yk (Python 3.7.0) Line 63, Col 1 UTF-8 LF RW Mem 69%