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### Import modules snd objects
import numpy as np
from shapely.geometry import Point, LineString, Polygon
### Read in text file using only the 'from x', 'from y', 'to x',
### and 'to y' columns
data = np.loadtxt('travelTimes example 2019.txt', skiprows= 1, delimiter=';',
                  usecols= [5,6,7,8])
### Create Lists of origin points and destination
orig points = []
dest_points = []
### Fill orig points list with Shapely Point objects
def fillOrigPts():
  for i in data:
   orig points.append(Point(i[0],i[1]))
fillOrigPts()
print('One of the origin points is: ',orig points[5])
### Fill dest points list with Shapely Point objects
def fillDestPts():
  for i in data:
   dest_points.append(Point(i[2],i[3]))
fillDestPts()
print('One of the destination points is: ',dest_points[5])
### Create a list that will contain lines from the origin points to the
### destination points
od strings = []
### Fill od strings with Shapely LineString objects that connect the origin
### to the destination points
def fillODstrings():
  for i in data:
    od_strings.append(LineString([(i[0],i[1]),(i[2],i[3])]))
fillODstrings()
print('One of the Lines from the origin to the destination is: ',od strings[5])
    One of the origin points is: POINT (28 36)
    One of the destination points is: POINT (84 53)
    One of the Lines from the origin to the destination is: LINESTRING (28 36,
```

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