

## Local Search / Genetic Algorithm :

Depending on the number of addresses, the Local Search algorithm (if there are fewer than 30 addresses) or the Genetic Algorithm (if there are 30 or more addresses) will be used to find the best way to visit all the addresses and return to the starting point

```
List of address: [Campobasso, Italy, Via Campania, 17, Campobasso, Italy, Veriaffari Campobasso, Campobasso, Ita
```

```
Start point: Campobasso, Italy, Via Campania, 17
```

```
Finish point: Campobasso, Italy, Pianeta Fiorito
```

```
Coordinates: {Campobasso, Italy, Castello Monforte=41.5633574,14.6556315, Campobasso, Italy, Via San Giovanni De
```

```
Graph with edges: Graph : {41.5633574,14.6556315={41.5704836,14.6745356=3217, 41.5602674,14.6617334=2362, 41.5579929,14.6779949=3448
```

```
Optimized path: [41.5579929,14.6779949, 41.5633574,14.6556315, 41.5602674,14.6617334, 41.55784999999999,14.6729484, 41.5704836,14.67
```

```
Starting point of the route: 41.5579929,14.6779949
```

```
The end point of the route: 41.5579929,14.6779949
```

```
Route (addresses):
```

```
3448
```

```
2362
```

```
1797
```

```
2053
```

```
1693
```

```
2427
```

```
4085
```

```
7095
```

```
All road : 24960
```

```
[Campobasso, Italy, Via Campania, 17, Campobasso, Italy, Castello Monforte, Campobasso, Italy, Museo dei Misteri, Campobasso, Italy,
```