**Huffman Coding**  
12/02/2015

**Using the code**

**Note:** Code is in Python, version 3.4.2

*Main.py* contains the method *run()* which takes a given filename and reads, encodes, and decodes the associated text file.

**Results**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Tour obtained** | | |
| **Input file** | **Modified brute force** | **Nearest neighbour** | **Genetic** |
| AISearchfile012.txt | 66 | **56** | **56** |
| AISearchfile017.txt | 2148 | 1628 | **1564** |
| AISearchfile021.txt | 4128 | 3130 | **2754** |
| AISearchfile026.txt | 1904 | 1731 | **1664** |
| AISearchfile042.txt | 2140 | 1534 | **1408** |
| AISearchfile048.txt | 33339 | **15172** | 15509 |
| AISearchfile058.txt | 81629 | **27208** | **27208** |
| AISearchfile175.txt | 44203 | **21951** | 22296 |
| AISearchfile180.txt | 659840 | **5420** | 8890 |
| AISearchfile535.txt | 147349 | **50029** | 50270 |