```
run:
Enter number of cities
12
Enter the file name
tsp12.txt
1486082502
Best path and cost
5
9
10
8
4
2
1
11
6
cost = 821
BUILD SUCCESSFUL (total time: 32 seconds)
```

```
run:
 Enter number of cities
 Enter the file name
 tsp13.txt
 1129909349
 Best path and cost
 5
 6
 8
 3
 2
 11
 10
 1
 4
 cost = 837
 BUILD SUCCESSFUL (total time: 13 seconds)
```

```
run:
Enter number of cities
Enter the file name
tsp14.txt
671695333
Best path and cost
5
10
9
4
6
1
11
cost = 778
BUILD SUCCESSFUL (total time: 12 seconds)
Enter number of cities
Enter the file name
tsp15.txt
1374488456
Best path and cost
5
11
10
3
2
7
1
cost = 839
BUILD SUCCESSFUL (total time: 13 seconds)
```

```
run:
 Enter number of cities
Enter the file name
tsp16.txt
1361976970
Best path and cost
 4
 3
 2
 9
7
10
 6
 8
 5
11
cost = 962
BUILD SUCCESSFUL (total time: 15 seconds)
Enter number of cities
Enter the file name
tsp19.txt
3476096642
Best path and cost
4
3
2
6
10
8
7
9
11
cost = 1080
BUILD SUCCESSFUL (total time: 21 seconds)
```

```
run:
 Enter number of cities
 Enter the file name
  tsp29.txt
  1848205367
 Best path and cost
  7
  6
 10
 1
  9
  3
  8
  2
  4
  11
  cost = 913
 BUILD SUCCESSFUL (total time: 25 seconds)
```

```
Enter number of cities
Enter the file name
tsp13.txt
4059774731321
Best path and cost
4
3
7
8
2
1
6
10
9
11
12
14
15
13
5
cost = 485
BUILD SUCCESSFUL (total time: 67 minutes 49 seconds)
```

run:

```
run:
Enter number of cities
Enter the file name
tsp14.txt
1186605620021
Best path and cost
4
8
9
6
13
10
12
14
15
7
1
2
11
3
cost = 590
BUILD SUCCESSFUL (total time: 19 minutes 59 seconds)
```

```
run:
Enter number of cities
Enter the file name
tsp15.txt
645605120332
Best path and cost
4
8
1
12
10
11
13
15
9
7
14
2
6
3
5
cost = 733
BUILD SUCCESSFUL (total time: 10 minutes 55 seconds)
```

```
Enter number of cities
16
Enter the file name
tsp16.txt
2216102873927
Best path and cost
5
11
8
4
2
1
9
12
3
14
13
10
6
15
cost = 1222
BUILD SUCCESSFUL (total time: 37 minutes 12 seconds)
```

run:

```
run:
Enter number of cities
Enter the file name
tsp19.txt
3906475163250
Best path and cost
7
9
15
13
3
2
8
1
12
10
5
6
14
11
cost = 1391
BUILD SUCCESSFUL (total time: 65 minutes 17 seconds)
```

```
run:
Enter number of cities
Enter the file name
tsp29.txt
372251195410
Best path and cost
5
4
2
9
6
1
13
3
8
11
14
7
15
10
12
cost = 1022
BUILD SUCCESSFUL (total time: 6 minutes 20 seconds)
```