

Graph Theory Practical Work 3

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The output for the path from vertex 1 to vertex 100 in the graph1k.txt is:

```
Source vertex: 1
Target vertex: 100
The path is: [1, 5, 487, 175, 714, 799, 222, 561, 100]
Successfully!
```

The output for the path from vertex 1 to vertex 100 in the graph10k.txt is:

```
Source vertex: 1
Target vertex: 100
The path is: [1, 7317, 460, 6010, 5295, 4560, 5513, 8467, 3517, 99, 9159, 6840, 5177, 7133, 288, 100]
Successfully!
```

The output for the path from vertex 1 to vertex 100 in the graph100k.txt is:

```
Source vertex: 1
Target vertex: 100
The path is: [1, 99842, 59480, 5210, 19068, 66428, 33692, 97073, 23675, 73057, 100]
Successfully!
```

The output for the path from vertex 100 to vertex 1 in the graph1k.txt is:

```
Source vertex: 100
Target vertex: 1
The path is: [100, 259, 229, 641, 538, 854, 1]
Successfully!
```

The output for the path from vertex 100 to vertex 1 in the graph10k.txt is:

```
Source vertex: 100  
Target vertex: 1  
The path is: [100, 4442, 3980, 1974, 407, 4489, 5162, 2008, 3631, 2305, 8336, 1]  
Successfully!
```

The output for the path from vertex 100 to vertex 1 in the graph100k.txt is:

```
Source vertex: 100  
Target vertex: 1  
The path is: [100, 85636, 77467, 52472, 38155, 40962, 34650, 29215, 35260, 1]  
Successfully!
```