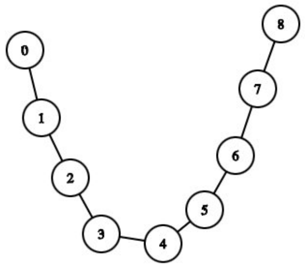
Lab Assignment 2 – Manual Executions

Manual Execution 1



Manual execution 1 was performed by running the program with the following instructions:

```
read ../data/undir1.txt undirected
search bfs connComps
```

After this, the program will ask you if you want to save the connected components as graphs somewhere. The answer was yes, and we save with this pattern:

```
yes
../data/undir1/undir
```

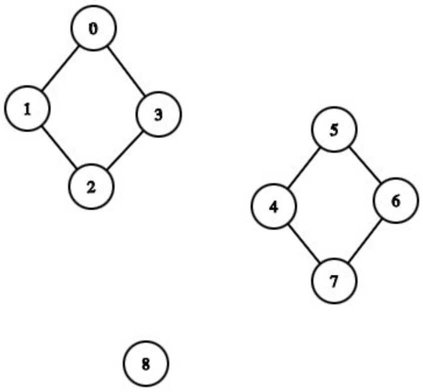
The complete output log:

```
read ../data/undir1.txt undirected
Successfully opened file in 0.000368s.


search bfs connComps
Save resulting connected components (yes/no)? yes
Filenames structure to save at (e.g. 'components' => components1.txt
etc.): ../data/undir1/undir
Component #1 [ 0 1 2 3 4 5 6 7 8 ]

Printed all connected components.
Operation done in 0.001454s.
```

The resulting component file:

```
9 8
0 1 100
1 2 200
2 3 300
3 4 400
4 5 500
5 6 600
6 7 700
7 8 800
```

Manual Execution 2



Manual execution 2 was performed by running the program with the following instructions:

```
read ../data/undir2.txt undirected
search bfs connComps
```

After this, the program will ask you if you want to save the connected components as graphs somewhere. The answer was yes, and we save with this pattern:

```
yes
../data/undir2/undir
```

The complete output log:

```
read ../data/undir2.txt undirected
Successfully opened file in 0.000378s.

search bfs connComps
Save resulting connected components (yes/no)? yes
Filenames structure to save at (e.g. 'components' => components1.txt
etc.): ../data/undir2/undir
Component #1 [ 0 1 2 3 ]
Component #2 [ 4 5 6 7 ]
Component #3 [ 8 ]

Printed all connected components.
Operation done in 0.001717s.
```

The resulting 3 component files:

```
4 8
0 1 10
0 3 30
1 2 12
2 3 23
```

```
4 8
4 5 45
4 7 74
5 6 56
6 7 67
```

```
1 0
8 -1
```