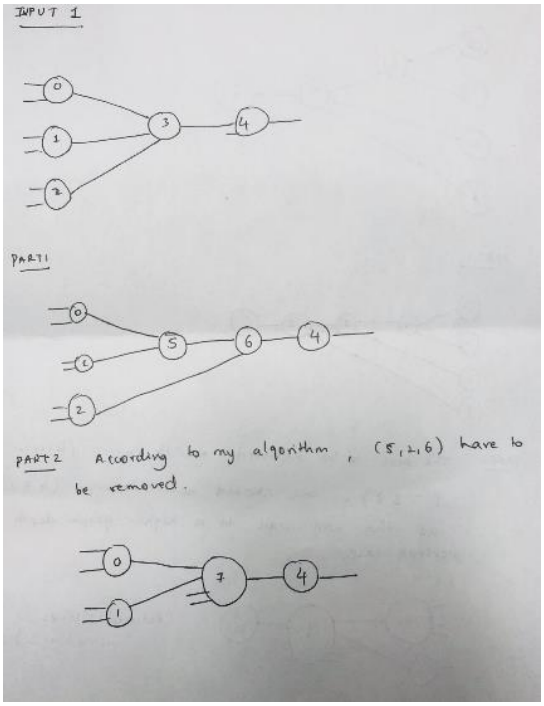
LUCID CIRCUIT TESTING

INPUT1



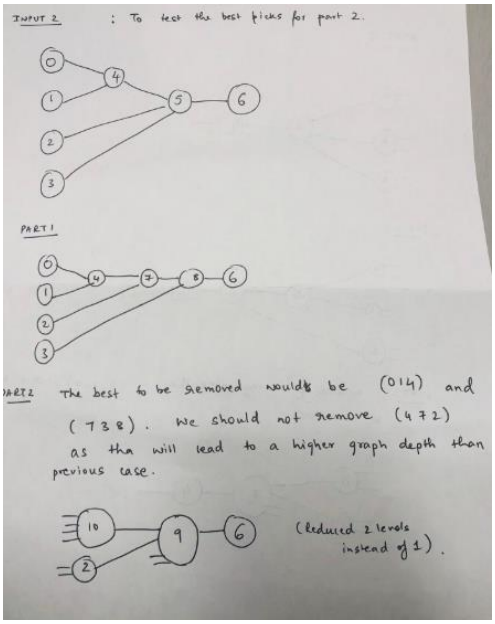

```
The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 3 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 3 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 3 To port c

Node ID is 3
Type of Node is 1
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Its port C is coming from NDOE 2
Ouput going to 1 nodes:
To Node 4 To port a

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 3
Its port B is coming from NDOE 4
Ouput going to 0 nodes:
```

OUTPUTS:

```
PART 1

The renoved Node is: 3


The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 5 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 5 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 6 To port b

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 6
Its port B is coming from NDOE 4
Ouput going to 0 nodes:

Node ID is 5
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 6 To port a

Node ID is 6
Type of Node is 0
Its port A is coming from NDOE 5
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 4 To port a
```

```
PART 2

The renoved nodes are: 5 2 6

The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 7 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 7 To port b

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 7
Its port B is coming from NDOE 4
Ouput going to 0 nodes:

Node ID is 7
Type of Node is 2
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Its port C is coming from NDOE 7
Its port D is coming from NDOE 7
Ouput going to 1 nodes:
To Node 4 To port a
```

INPUT 2




```
The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 4 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 4 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 5 To port b

Node ID is 3
Type of Node is 0
Its port A is coming from NDOE 3
Its port B is coming from NDOE 3
Ouput going to 1 nodes:
To Node 5 To port c

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 5 To port a

Node ID is 5
Type of Node is 1
Its port A is coming from NDOE 4
Its port B is coming from NDOE 2
Its port C is coming from NDOE 3
Ouput going to 1 nodes:
To Node 6 To port a

Node ID is 6
Type of Node is 0
Its port A is coming from NDOE 5
Its port B is coming from NDOE 6
Ouput going to 0 nodes:
```

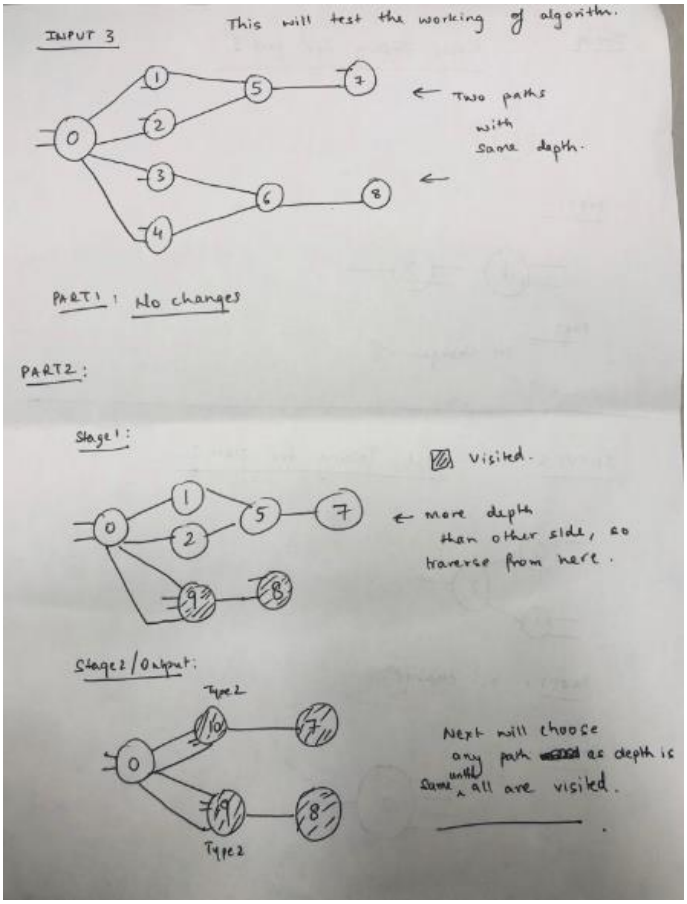
OUPUTS:

PART1

```
The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 4 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 4 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 7 To port b

Node ID is 3
Type of Node is 0
Its port A is coming from NDOE 3
Its port B is coming from NDOE 3
Ouput going to 1 nodes:
To Node 8 To port b

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 7 To port a

Node ID is 6
Type of Node is 0
Its port A is coming from NDOE 8
Its port B is coming from NDOE 6
Ouput going to 0 nodes:

Node ID is 7
Type of Node is 0
Its port A is coming from NDOE 4
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 8 To port a

Node ID is 8
Type of Node is 0
Its port A is coming from NDOE 7
Its port B is coming from NDOE 3
Ouput going to 1 nodes:
To Node 6 To port a
```

```
PART 2

The renoved nodes are: 7 3 8
The renoved nodes are: 0 1 4

The graph is

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 9 To port b

Node ID is 6
Type of Node is 0
Its port A is coming from NDOE 9
Its port B is coming from NDOE 6
Ouput going to 0 nodes:

Node ID is 9
Type of Node is 2
Its port A is coming from NDOE 10
Its port B is coming from NDOE 2
Its port C is coming from NDOE 9
Its port D is coming from NDOE 9
Ouput going to 1 nodes:
To Node 6 To port a

Node ID is 10
Type of Node is 2
Its port A is coming from NDOE 10
Its port B is coming from NDOE 10
Its port C is coming from NDOE 10
Its port D is coming from NDOE 10
Ouput going to 1 nodes:
To Node 9 To port a
```

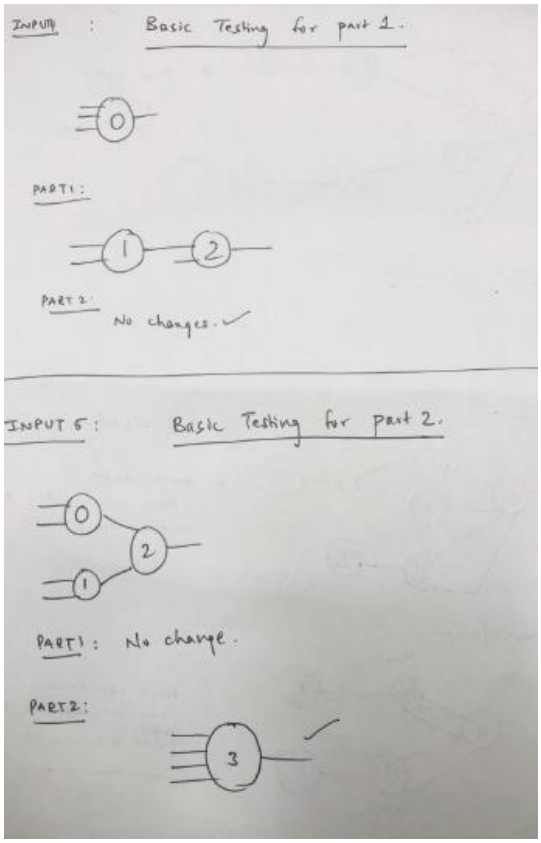
INPUT 3:




```
PART 2

The renoved nodes are: 3 4 6
The renoved nodes are: 1 2 5

The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 4 nodes:
To Node 9 To port a
To Node 9 To port d
To Node 10 To port a
To Node 10 To port d

Node ID is 7
Type of Node is 0
Its port A is coming from NDOE 7
Its port B is coming from NDOE 10
Ouput going to 0 nodes:

Node ID is 8
Type of Node is 0
Its port A is coming from NDOE 8
Its port B is coming from NDOE 9
Ouput going to 0 nodes:

Node ID is 9
Type of Node is 2
Its port A is coming from NDOE 0
Its port B is coming from NDOE 9
Its port C is coming from NDOE 9
Its port D is coming from NDOE 0
Ouput going to 1 nodes:
To Node 8 To port b

Node ID is 10
Type of Node is 2
Its port A is coming from NDOE 0
Its port B is coming from NDOE 10
Its port C is coming from NDOE 10
Its port D is coming from NDOE 0
Ouput going to 1 nodes:
To Node 7 To port b
```

```
Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 4 nodes:
To Node 1 To port a
To Node 2 To port b
To Node 3 To port a
To Node 4 To port b

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 5 To port a

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 5 To port b

Node ID is 3
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 3
Ouput going to 1 nodes:
To Node 6 To port a

Node ID is 4
Type of Node is 0
Its port A is coming from NDOE 4
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 6 To port b

Node ID is 5
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 7 To port b

Node ID is 6
Type of Node is 0
Its port A is coming from NDOE 3
Its port B is coming from NDOE 4
Ouput going to 1 nodes:
To Node 8 To port b

Node ID is 7
Type of Node is 0
Its port A is coming from NDOE 7
Its port B is coming from NDOE 5
Ouput going to 0 nodes:

Node ID is 8
Type of Node is 0
Its port A is coming from NDOE 8
Its port B is coming from NDOE 6
```

BASIC TESTING : INPUT 4 AND INPUT 5



INPUT 4------->

```
kst@ubuntu:~/Desktop/LucidCircuit$ ./output input4.txt
Program Started.........

The graph is

Node ID is 0
Type of Node is 1
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Its port C is coming from NDOE 0
Ouput going to 0 nodes:




PART 1

The renoved Node is: 0


The graph is

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 2 To port a

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 2
Ouput going to 0 nodes:




PART 2


The graph is

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 2 To port a

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 2
Ouput going to 0 nodes:
```

INPUT 5 ---->

```
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 2 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 0 nodes:




PART 1



The graph is

Node ID is 0
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 0
Ouput going to 1 nodes:
To Node 2 To port a

Node ID is 1
Type of Node is 0
Its port A is coming from NDOE 1
Its port B is coming from NDOE 1
Ouput going to 1 nodes:
To Node 2 To port b

Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 0
Its port B is coming from NDOE 1
Ouput going to 0 nodes:




PART 2

The renoved nodes are: 0 1 2

The graph is

Node ID is 3
Type of Node is 2
Its port A is coming from NDOE 3
Its port B is coming from NDOE 3
Its port C is coming from NDOE 3
Its port D is coming from NDOE 3
Ouput going to 0 nodes:
```