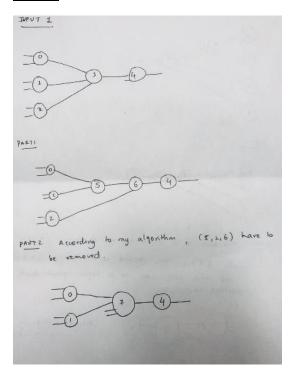
LUCID CIRCUIT TESTING

INPUT1



```
The graph is

Node ID is 0

Type of Node ls 0

Its port A is coming from NDDE 0

Its port B is coming from NDDE 0

Duput 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 NDDE 1

Its port A is coming from NDDE 1

Ouput going to 1 nodes:

To Node 3 To port b

Node ID is 2

Type of Node is 8

Its port A is coming from NDDE 2

Its port B is coming from NDDE 2

Ouput going to 1 nodes:

To Node 3 To port c

Node ID is 3

Type of Node is 1

Its port B is coming from NDDE 8

Its port A is coming from NDDE 1

Its port A is coming from NDDE 1

Its port B is coming from NDDE 1

Its port B is coming from NDDE 1

Its port B is coming from NDDE 2

Ouput going to 1 nodes:

To Node 4 To port a

Node ID is 4

Type of Node is 8

Its port B is coming from NDDE 3

Its port B is coming from NDDE 3

Its port B is coming from NDDE 3

Its port B is coming from NDDE 4

Ouput going to 0 nodes:
```

OUTPUTS:

```
The graph is

Node ID is 8
Type of Node is 8
Its port A is coming from NDDE 8
Ouput going to 1 nodes:
To Node ID is 1
Type of Node is 8
Its port A is coming from NDDE 8
Ouput going to 1 nodes:
To Node ID is 1
Type of Node is 8
Its port A is coming from NDDE 1
Its port B is coming from NDDE 1
Ouput going to 1 nodes:
To Node ID is 2
Type of Node is 8
Its port B is coming from NDDE 1
Ouput going to 1 nodes:
To Node ID is 2
Type of Node is 8
Its port A is coming from NDDE 2
Its port B is coming from NDDE 2
Its port B is coming from NDDE 2
Ouput going to 1 nodes:
To Node is 8
Its port A is coming from NDDE 6
Its port B is coming from NDDE 4
Ouput going to 0 nodes:
Node ID is 5
Type of Node is 8
Its port A is coming from NDDE 6
Its port B is coming from NDDE 1
Ouput going to 0 nodes:
To Node iD is 6
Type of Node is 8
Its port A is coming from NDDE 1
Type of Node is 8
Its port B is coming from NDDE 1
Ouput going to 1 nodes:
To Node ID is 6
Its port A is coming from NDDE 5
Its port B is coming from NDDE 2
Ouput going to 1 nodes:
To Node 4 To port a
```

```
The renoved nodes are: 5 2 6

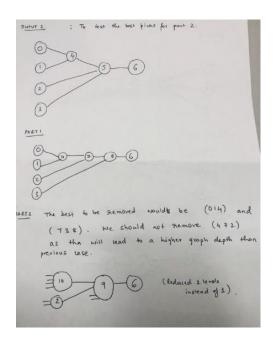
The graph is

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 A 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 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
Its port D is coming from NDOE 7
Ouput going to 1 nodes:
To Node 4 To port a
```

INPUT 2



OUPUTS:

PART1

```
The graph is

Node ID is 0
Type of Node is 8
Its port A is coming from NDDE 0
Its port B is coming from NDDE 0
Its port B is coming from NDDE 0
Its port B is coming from NDDE 1
In Node ID is 1
Its port A is coming from NDDE 1
Its port A is coming from NDDE 1
In NDDE ID is 1
Its port A is coming from NDDE 1
In NDDE ID is 1
In NDDE ID is 1
Its port A is coming from NDDE 1
In NDDE ID is 1
Its port A is coming from NDDE 2
In NDDE ID is 3
Its port A is coming from NDDE 3
In NDDE ID is 3
Its port B is coming from NDDE 1
Its port B is coming from NDDE 6
In NDDE ID is 1
Its port B is coming from NDDE 6
In NDDE ID IS 1
Its port B is coming from NDDE 6
Its port B is coming from NDDE 6
Its port B is coming from NDDE 7
Its port B is coming from NDDE 3
In NDDE NDE NDDE 3
In NDDE NDDE NDDE 3
In NDDE NDDE NDDE 3
In NDDE NDDE NDD
```

```
The graph is

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

Node ID is 1
Type of Node is 8
Its port A is coming from NDOE 1
Output going to 1 nodes:
To Node A To port b

Node ID is 2
Type of Node is 8
Its port A is coming from NDOE 1
Output going to 1 nodes:
To Node A To port b

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

NODE ID is 5
Type of Node is 8
Its port A is coming from NDOE 1
Output going to 1 nodes:
To Node S To port a
NODE ID is 5
Type of NOde is 1
Its port A is coming from NDOE 2
Its port C is coming from NDOE 3
NDOE ID is 6
Type of NOde is 0
Its port A is coming from NDOE 5
Its port B is coming from NDOE 5
```

```
The renoved nodes are: 7 3 8
The renoved nodes are: 0 1 4
The graph is

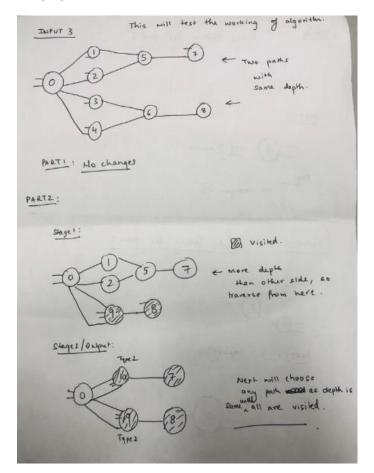
Node ID is 2
Type of Node is 0
Its port A is coming from NDOE 2
Its port B is coming from NDOE 2
Ouput going to 1 nodes:
To Node 9 To port b

Node ID is 6
Type of Node is 8
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 18
Its port B is coming from NDOE 9
Its port B is coming from NDOE 9
Its port C is coming from NDOE 9
Ouput going to 1 nodes:
To Node A To port a

Node ID is 10
Type of Node is 2
Its port A is coming from NDOE 16
Its port B is coming from NDOE 16
Its port B is coming from NDOE 16
Its port C is coming from NDOE 16
Its port D is coming from NDOE 16
```

INPUT 3:



```
The renoved nodes are: 3 4 6
The renoved nodes are: 3 4 6
The renoved nodes are: 1 2 5
The graph is

Node ID is 8
Type of Node is 8
Its port A is coming from NDOE 9
Its port B is coming from NDOE 9
Ouput going to 4 nodes:
TO Node 9 To port a
TO Node 10 TO port a
TO Node 10 TO port a
TO Node 10 TO port d

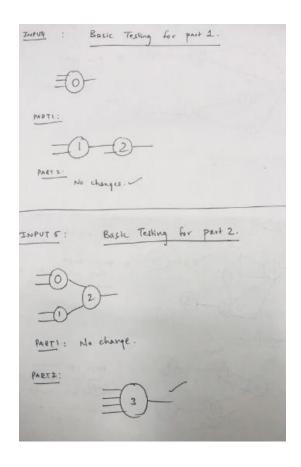
Node ID is 7
Type of Node is 8
Its port A is coming from NDOE 7
Its port B is coming from NDOE 10
Ouput going to 0 nodes:

Node ID is 8
Type of Node is 8
Its port A is coming from NDOE 8
Its port A 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 9
Its port A is coming from NDOE 9
Its port A is coming from NDOE 9
Its port B is coming from NDOE 9
Its port C is coming from NDOE 9
Its port C is coming from NDOE 9
Its port B is coming from NDOE 9
Its port B is coming from NDOE 9
Its port A is coming from NDOE 9
Its port A is coming from NDOE 9
Its port B is coming from NDOE 8
Its port A is coming from NDOE 8
Its port A is coming from NDOE 9
Its port A is coming from NDOE 10
Its port B is coming from NDOE 10
Its port B is coming from NDOE 10
Its port C is coming from NDOE 10
```

```
Node ID is 8
Type of Node is 8
Its port A is coming from NDOE 9
Its port B is coming from NDOE 9
Duput 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 8
Its port A is coming from NDOE 8
Its port B is coming from NDOE 1
Duput 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
Duput going to 1 nodes:
To Node 5 To port b
  Node ID is 3
Type of Node is 0
Type of Node ts o
Its port A is coming from NDOE 0
Its port B is coming from NDOE 3
Duput going to 1 nodes:
To Node 6 To port a
Node ID is 4
Type of Node is 8
Its port A is coming from NDOE 4
Its port B is coming from NDOE 8
Duput going to 1 nodes:
To Node 6 To port b
Node ID is 5
Type of Node is 8
Its port A is coming from NDOE 1
Its port B is coming from NDOE 2
Duput going to 1 nodes;
To Node 7 To port b
Node ID is 6
Type of Node is 8
Its port A is coming from NDOE 3
Its port B is coming from NDOE 4
Duput 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
Duput 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-----→

```
Rate Description of the port o
```

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

Node ID is 2
Type of NDOE is 5
Type of NDOE is 1
Ouput going to 1 nodes:

PART 2
The removed nodes are: 0 1 2
The graph is
NDOE ID is 3
Type of NDOE is 2
```

INPUT 5 ----→