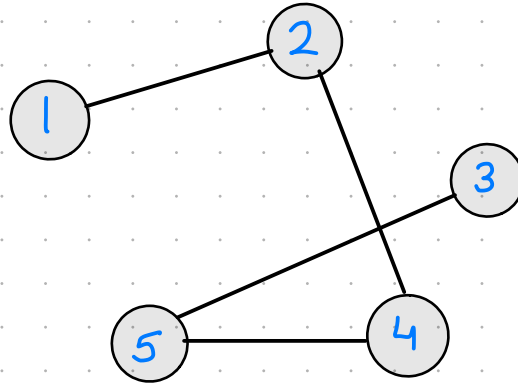
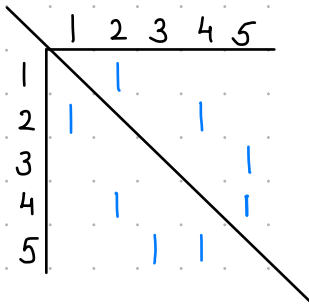
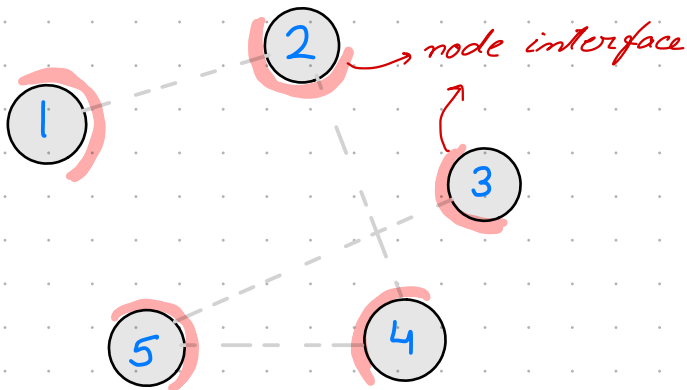


Overlay

Step 1: Input



Q: Matrix pre-defined (fixed), or to be constructed first time the program is run (user prompt)?



→ Every node has its own interface

→ during initialization:

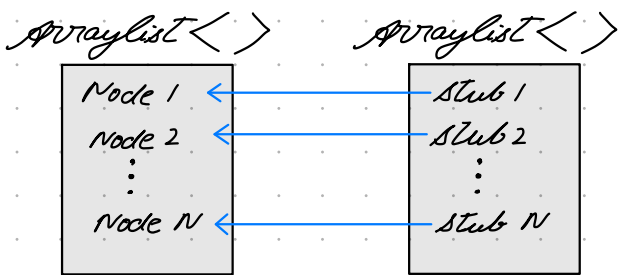
↳ associate every node with its interface

How?

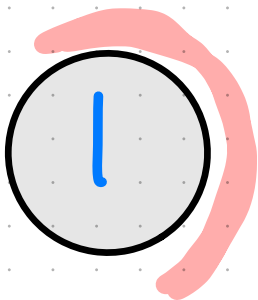
↳ Create a stub for every node instance and associate them.

how to manage?

↳ Make a list of stubs (arraylist?) and keep adding stubs to it.



What IS a node?



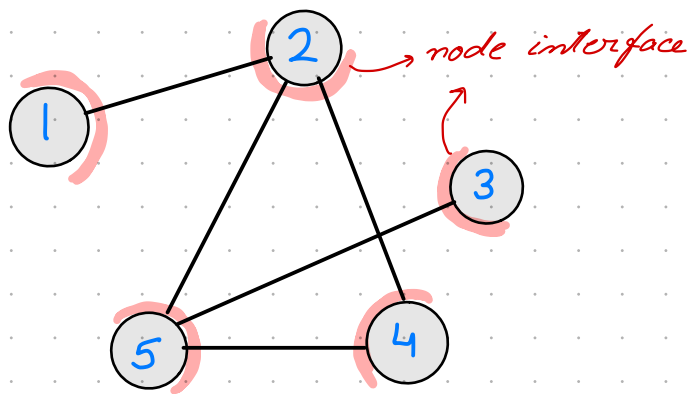
→ Each node is a separate running entity.

→ Some attributes:

↳ node ID

↳ All (connected) neighbours' IDs

How??



How to 'Connect' nodes

1 → 2	basically store the IDs of all connected neighbours ?? (Not sure r.m.)
2 → 1, 4, 5	
3 → 5	
4 → 2, 5	

INITIALIZE:

```
Node node = new Node(ID or x);
NodeInterface nitf = (NodeInterface) UnicastRemoteObject.exportObject...
//add the node and nitf to their respective arraylists. ... (node, 0)
```

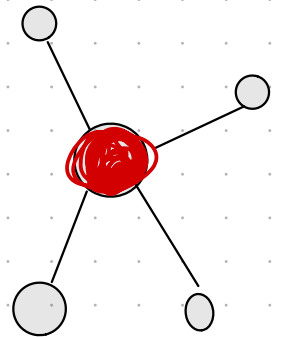
```
Registry registry = LocateRegistry.getRegistry();
registry.bind("NodexService", nitf);
```

Can we get rid of this part ??

CONNECT:

Iterate through ALL IDs in input matrix:

```
└ if ID in input matrix matches: (== 1)
    :
    :
```

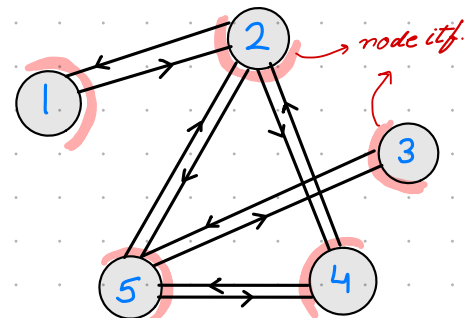


```
Node node = new Node(ID or x);
NodeInterface nitf = (NodeInterface) UnicastRemoteObject.exportObject...
//add the node and nitf to their respective arraylists. ... (node, 0)
```

```
Registry registry = LocateRegistry.getRegistry();
registry.bind("NodexService", nitf);
```

Iterate through ALL IDs in input matrix:

```
└ if ID in input matrix matches: (== 1) y
```

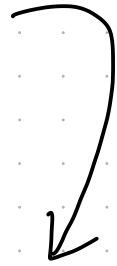
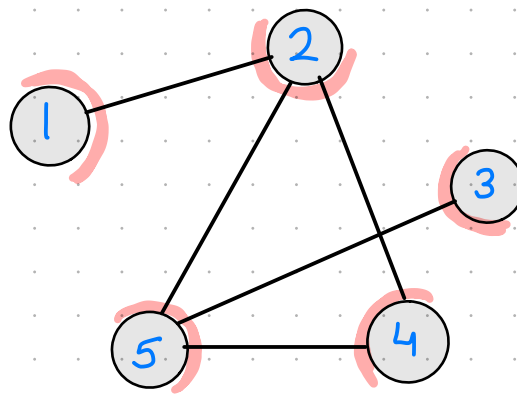


```
Registry registry = LocateRegistry.getRegistry("localhost");
```

```
NodeInterface nitf = (NodeInterface) registry.lookup("NodeyService");
```

```
Node node = new Node(y, nitf);
```

	1	2	3	4	5
1					
2					
3					
4					
5					

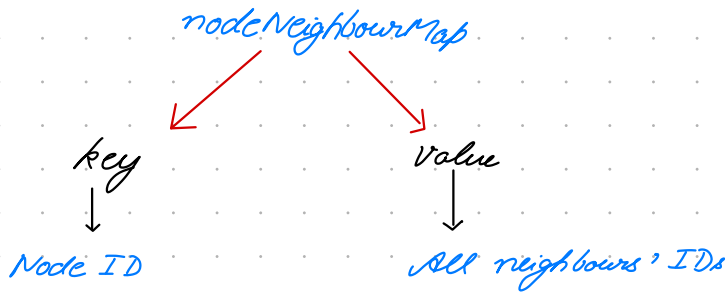


readFile():

- read the matrix file
- Identify:

- ↳ No. of nodes (line 1)
- ↳ IDs of all nodes (line 2)
- ↳ Neighbourhood connection (rest all lines)

- Create a hashmap:



```

inputMatrix.txt X
C:\Users\archi\IdeaProjects\OverlayProject> inputMatrix.txt
1 5
2
3 01234
4
5 01000
6 10011
7 00001
8 01001
9 01110
  
```

(ignore space lines)