Job Assignment Problem n>0 n Agents/workors/holpors are to be assigned n tasks. Each agost having exactly one task to pelly If agont; I \si \si \si anogned tast i ISjen, then the cost of performing this particular tousk Cij. Giren the complete matrix of costs the problem is to assign agents to tasks (viceversa) so as to minimize the total cost of executing the ntooks minimize

(It shows that every agont has different capability or J Skill sot, be cause of skich the cost efforts taken are varying agout to agout ovol 911 Appendix takes 4 units of cost leffort to complete togk 1 Agent c takes 3 mits of costlet

Know that about answer. fur a given madrix input minimum cost value will be always one/single.
But this value might be symmel up from different combination of cost values. Hence multiple such mons one passible.

Examples:

```
Job assignment examples:
```

```
3
```

473

261

394

Solution

a-2,b-3,c-1 totaling 7+1+3=11

```
3
9 3 4
7 8 4
10 5 2
Solution
a-2, b-1, c-3 totaling 3+7+2=12
```

```
4
```

Solution

a-2, b-1, c-3, d-4 totaling 2+6+1+4=13

```
4
11 12 18 40
14 15 13 22
11 17 19 23
17 14 20 28
Solution
a-1, b-3, c-4, d-2 totaling 11+13+23+14=61
```