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class Routing-table!

```
def __init__(self, current):
```

self. moment: current

self-table = { 'dist': [current], 'cost': [0],
'nextH': [current] }

self. nrig = []

```
def add_direct_connection (self, p, cost):
```

```
self.table['Dest'].append(p)
```

```
self.table['cost'].append(cost)
```

self.table['nextH'].append(p)

```
self.neig.append(p)
```

```
def receive_msg(self, dest, cost, sender):
```

flag = 0

$$\text{index-of-sender} = \text{self.table}["\text{dest}"].\text{index}(\text{sender})$$
$$\text{cost-to-sender} = \text{self.table["cost"]}[\text{index-of-sender}]$$

for d, c in $\text{zip}(\text{dist}, \text{cost})$:

if d not in self.table["Dest"]:

```
self.table["Dist"].append(x)
```

```
self.table["cost"].append(cost_to_sender + c)
```

```
self.table["NextH"].append(sender)
```

$$\text{flag} = 1$$

```
elif cost - sender + c < self.table["cost"]  
    self.table["cost"] = cost - sender + c
```

$$\text{self.table}[\text{'cost'}][\text{self.table}[\text{'dest'}], \text{index(d)}] = \text{cost} - \text{to_sender} + c$$

self.table["NextH"] [self.table["Dist"].
index(a)] = sender

flag = 1

if flag == 1:

return self.neig, [self.table['best'],
self.table['cost'], self.current]

~~return~~

return [], []

def print_routing_table(self):

for x, val in self.table.items():
print(x, val)