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Roll No. 35

AI

INPUT :

```
INF = 9999999
N = 5
G = [[0, 19, 5, 0, 0],
 [19, 0, 5, 9, 2],
 [5, 5, 0, 1, 6],
 [0, 9, 1, 0, 1],
 [0, 2, 6, 1, 0]]
selected_node = [0, 0, 0, 0, 0]
no_edge = 0
selected_node[0] = True
print("Edge : Weight\n")
while (no_edge < N - 1):
 minimum = INF
 a = 0
 b = 0
 for m in range(N):
 if selected_node[m]:
 for n in range(N):
 if ((not selected_node[n]) and G[m][n]):
 if minimum > G[m][n]:
 minimum = G[m][n]
 a = m
 b = n
 print(str(a) + "-" + str(b) + ":" + str(G[a][b]))
 selected_node[b] = True
 no_edge += 1
```

OUTPUT :

Edge : Weight

0-2:5

2-3:1

3-4:1

4-1:2