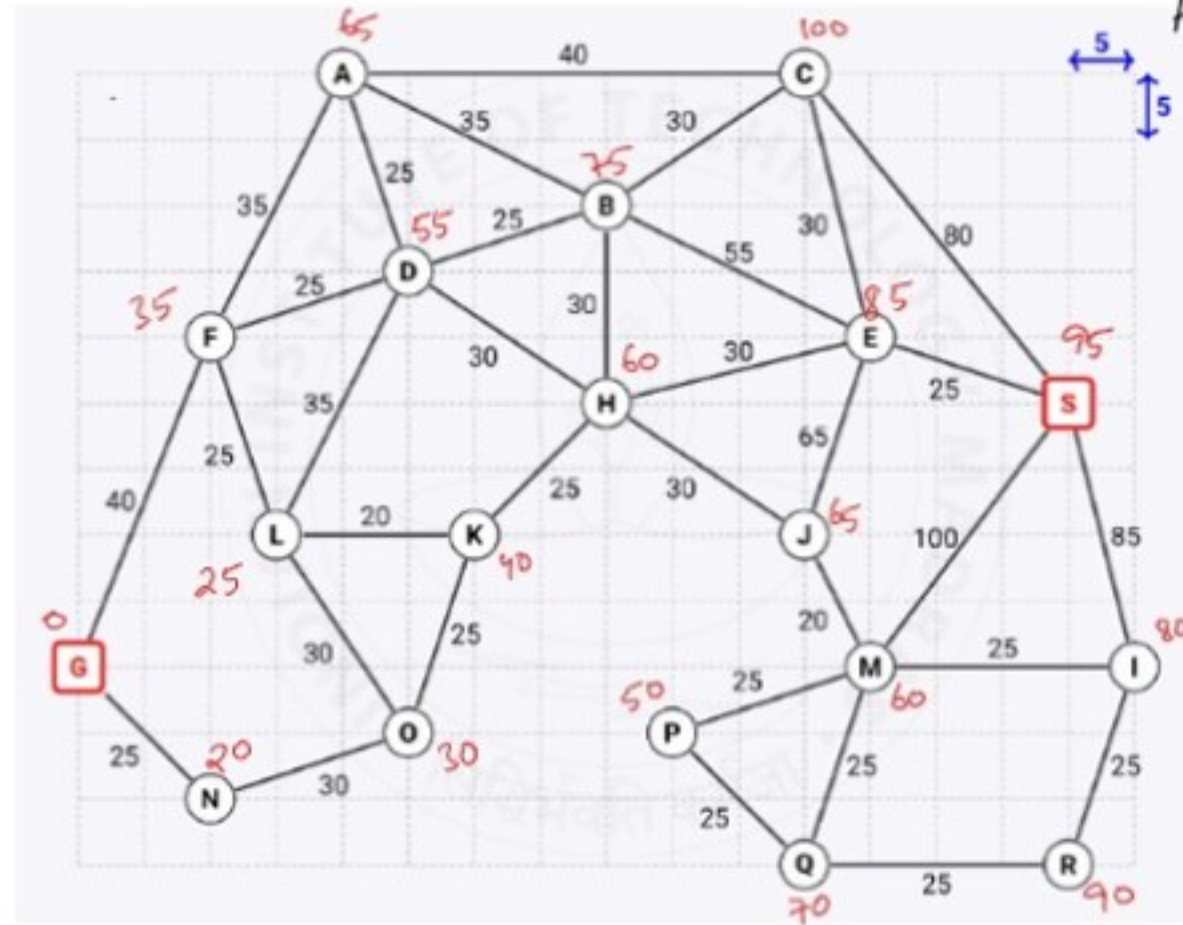
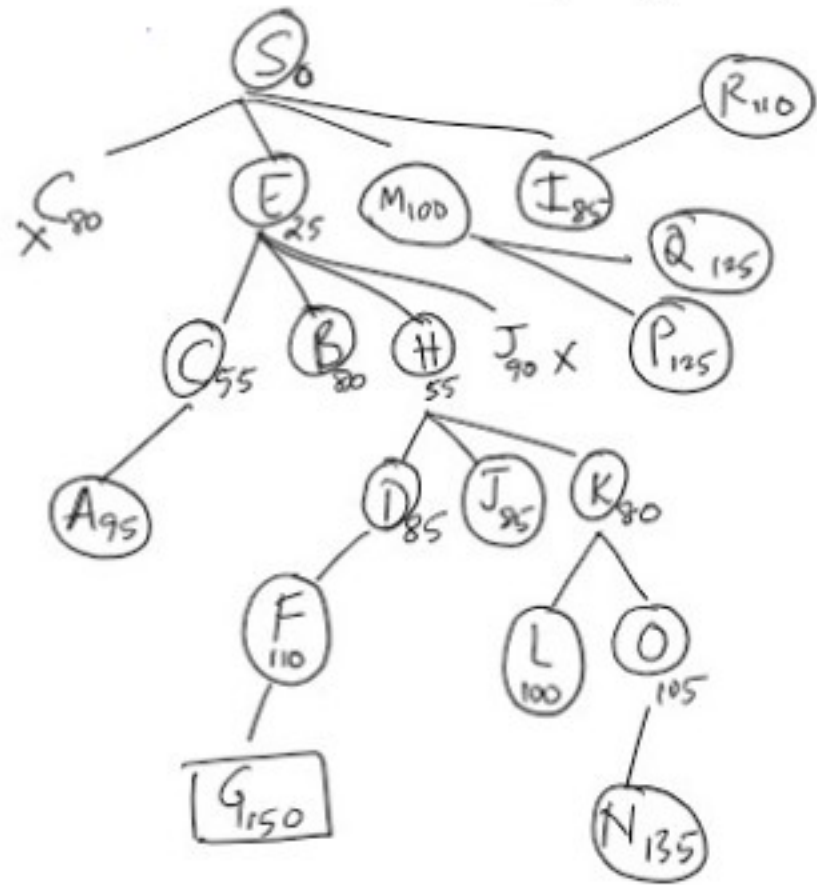
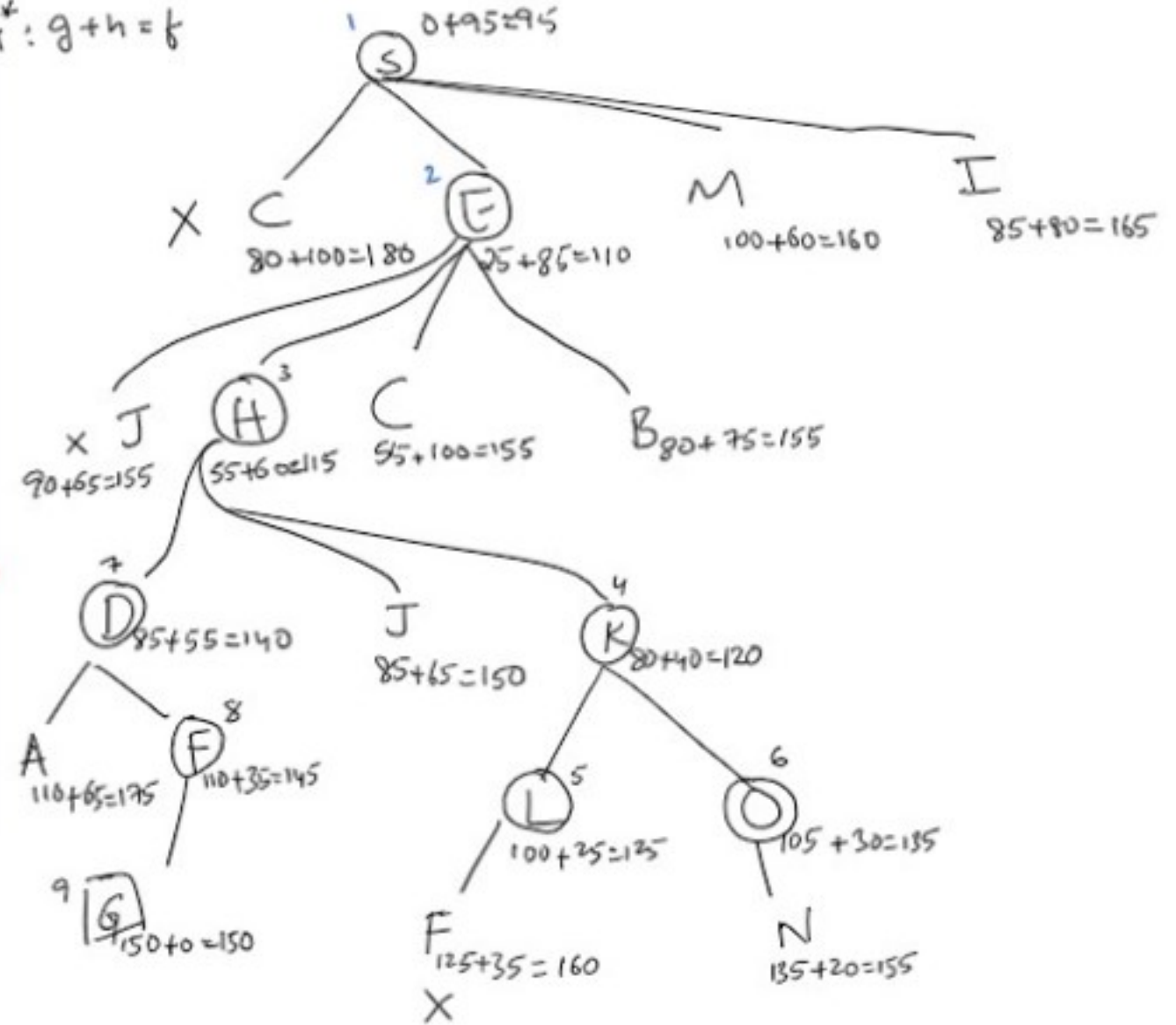


Buys: $g + o = f$

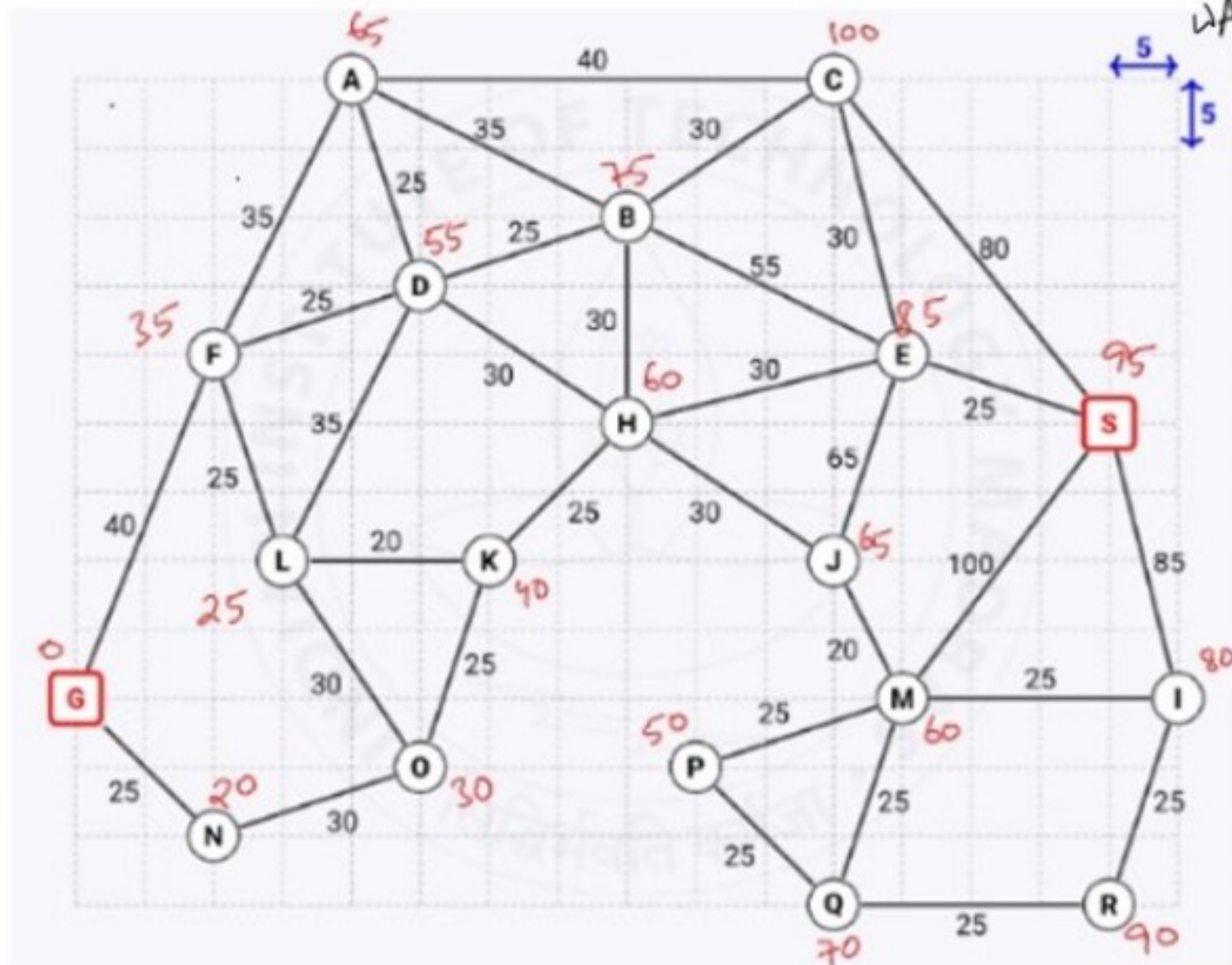


A*: $g + h = f$

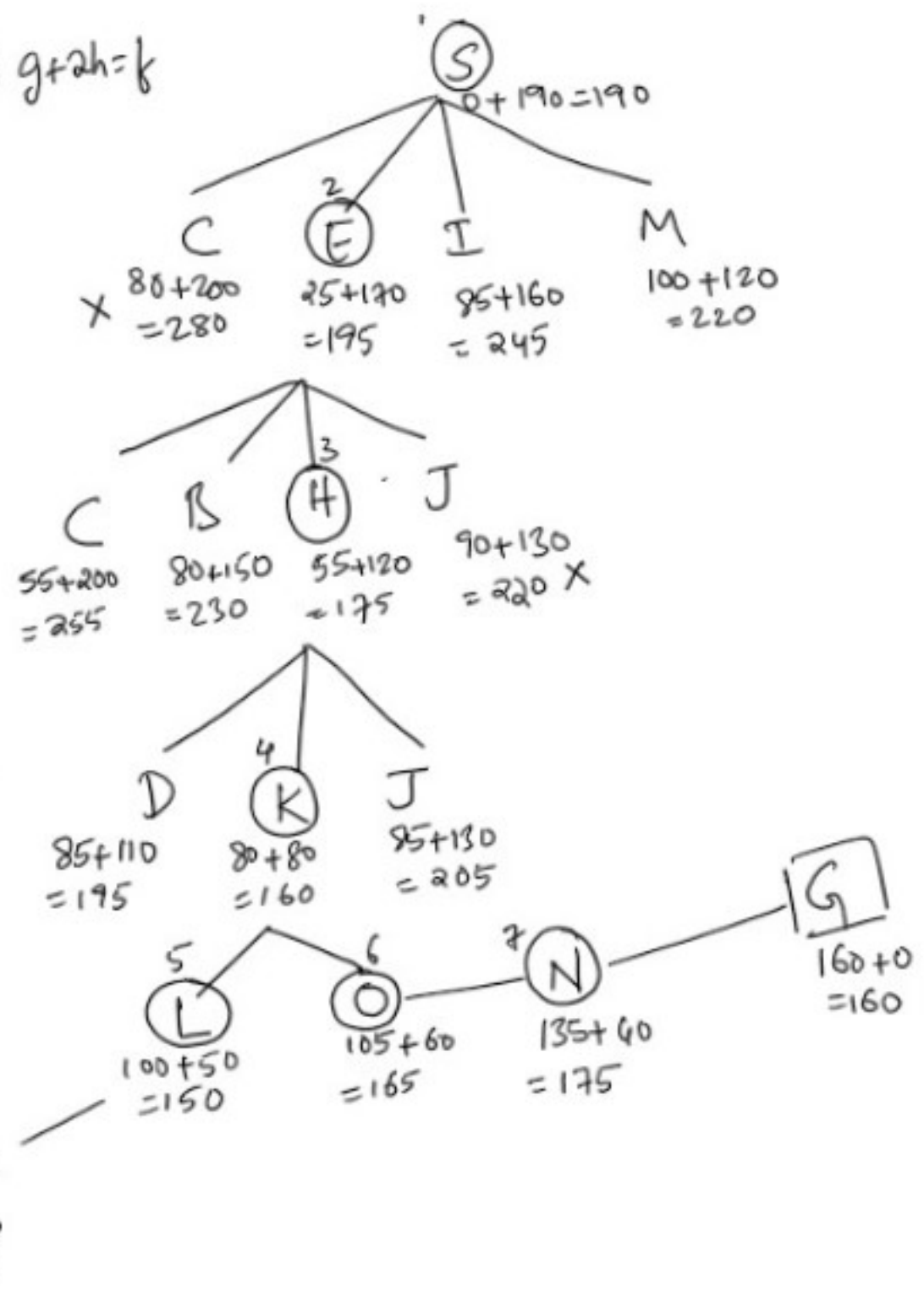


7) Did A* find an optimal path?

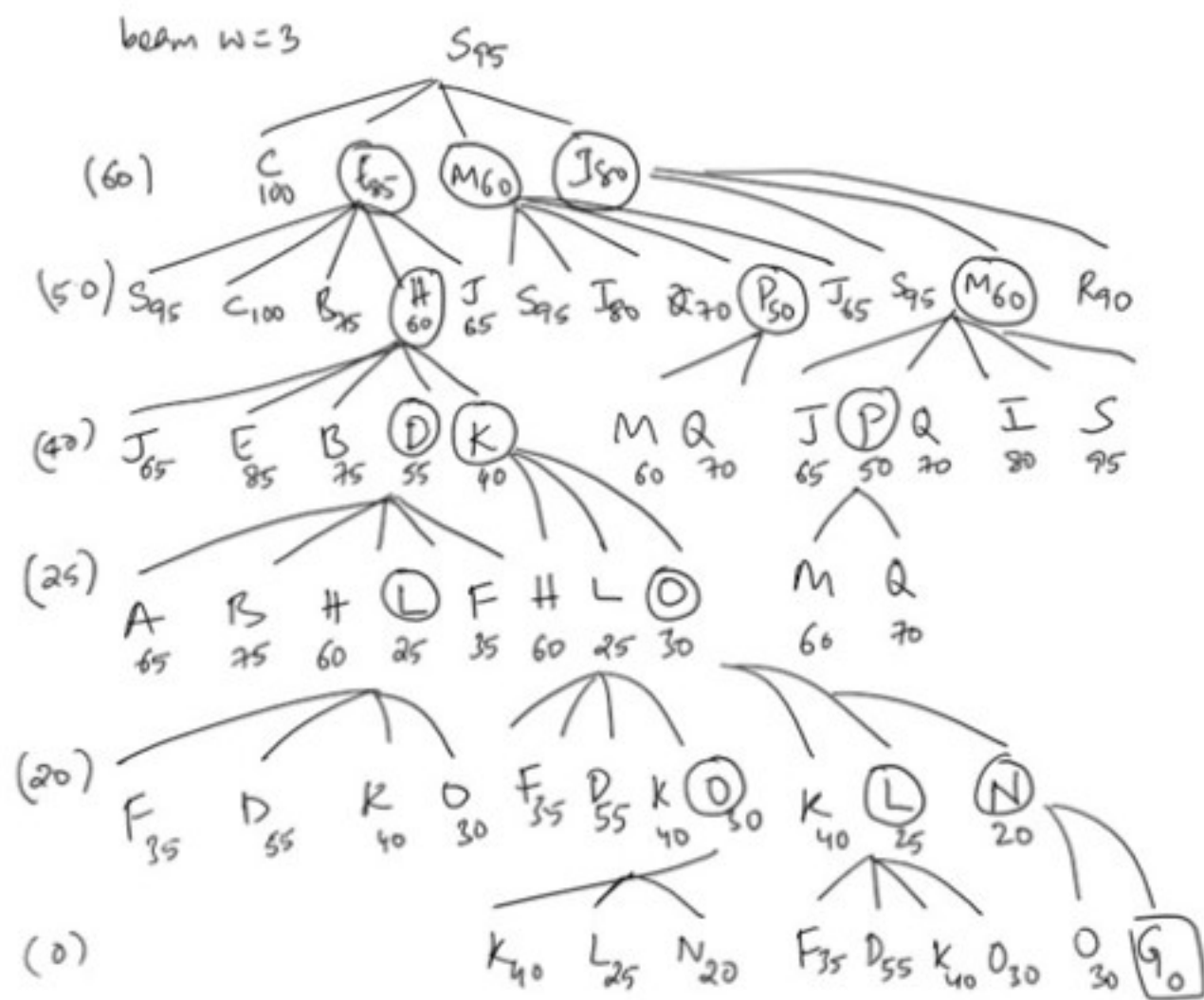
- ☐ a. Yes
- ☐ b. No
- ☐ c. Cannot be determined



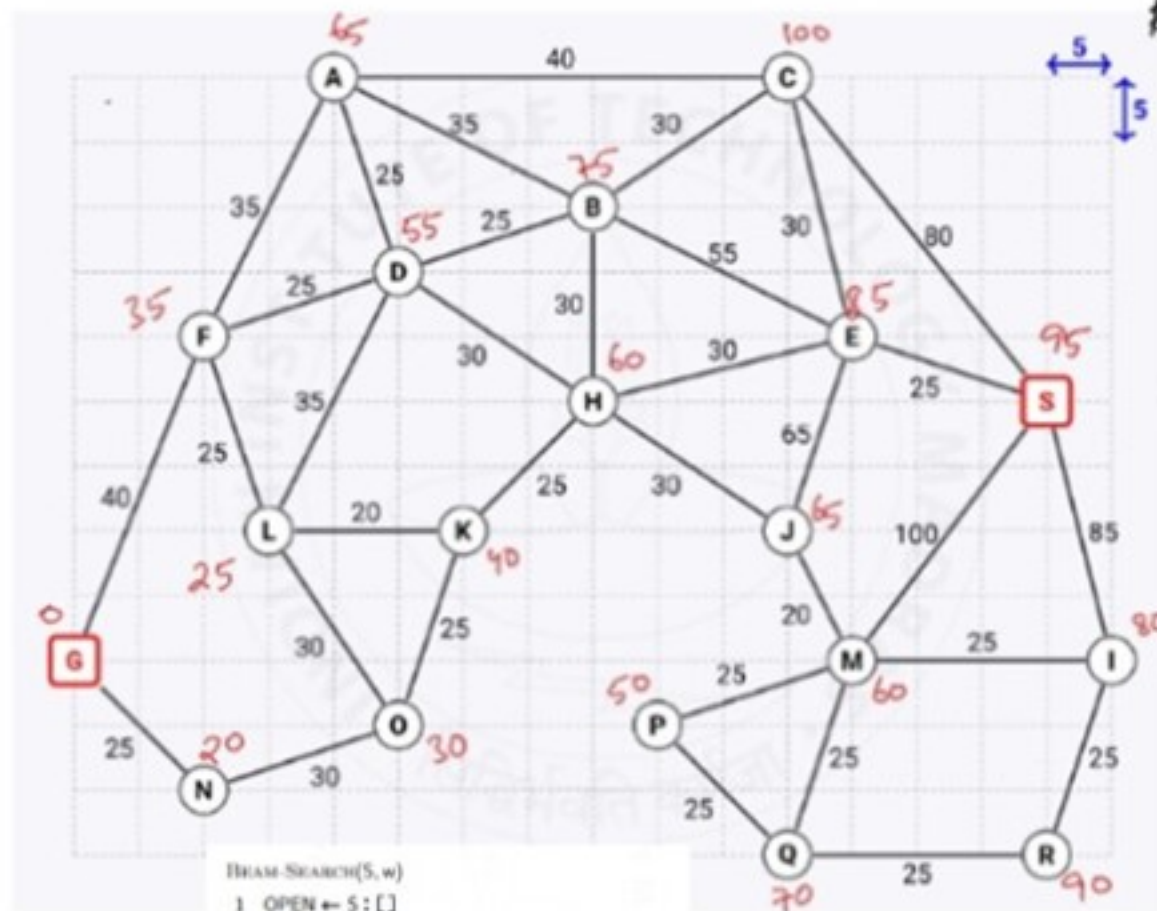
$uA^*: g+2h=f$



F
 $125+70=195$



S 25 E 30 H 25 K 25 O 30 N 25 G = 160



```

1 OPEN ← S : []
2 N ← S
3 do bestEver ← N
4   if OPEN contains goal node
5     return that goal node
6   else neighbours ← Move-Gen(OPEN)
7   OPEN ← take w (sorth neighbours)
8   N ← head OPEN ▷ best in new layer
9 while h(N) is better than h(bestEver)
10 return bestEver

```

