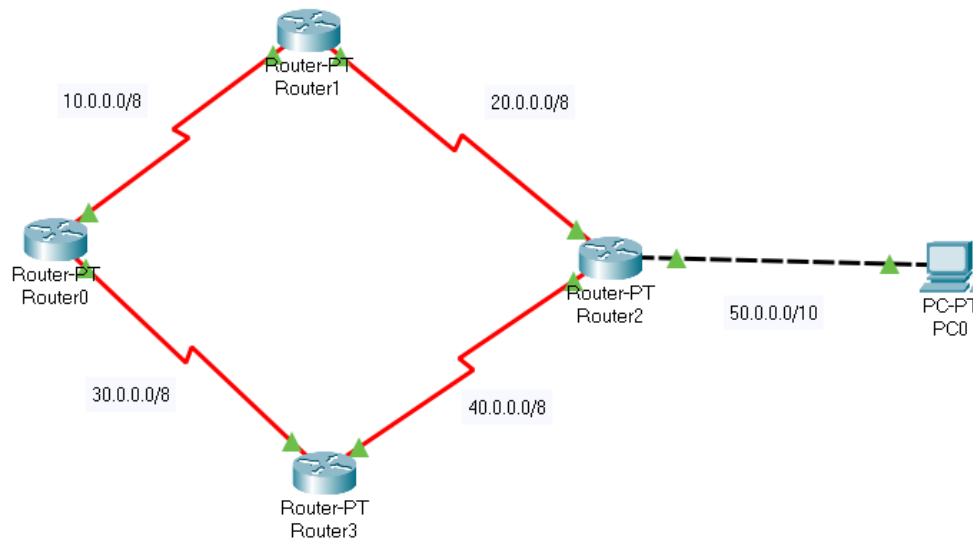


### Task:



### Ro:

```
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
       area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, Serial2/0
D    20.0.0.0/8 [90/21024000] via 10.0.0.2, 00:26:48, Serial2/0
C    30.0.0.0/8 is directly connected, Serial3/0
D    40.0.0.0/8 [90/21024000] via 30.0.0.2, 00:26:18, Serial3/0
D    50.0.0.0/8 [90/21026560] via 10.0.0.2, 00:24:39, Serial2/0
       [90/21026560] via 30.0.0.2, 00:24:39, Serial3/0
```

### R1:

```
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
       area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, Serial2/0
C    20.0.0.0/8 is directly connected, Serial3/0
D    30.0.0.0/8 [90/21024000] via 10.0.0.1, 00:28:02, Serial2/0
D    40.0.0.0/8 [90/21024000] via 20.0.0.2, 00:26:44, Serial3/0
D    50.0.0.0/8 [90/20514560] via 20.0.0.2, 00:25:42, Serial3/0
```

R2:

```
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

D    10.0.0.0/8 [90/21024000] via 20.0.0.1, 00:27:28, Serial2/0
C    20.0.0.0/8 is directly connected, Serial2/0
D    30.0.0.0/8 [90/21024000] via 40.0.0.1, 00:27:13, Serial3/0
C    40.0.0.0/8 is directly connected, Serial3/0
C    50.0.0.0/8 is directly connected, FastEthernet0/0
```

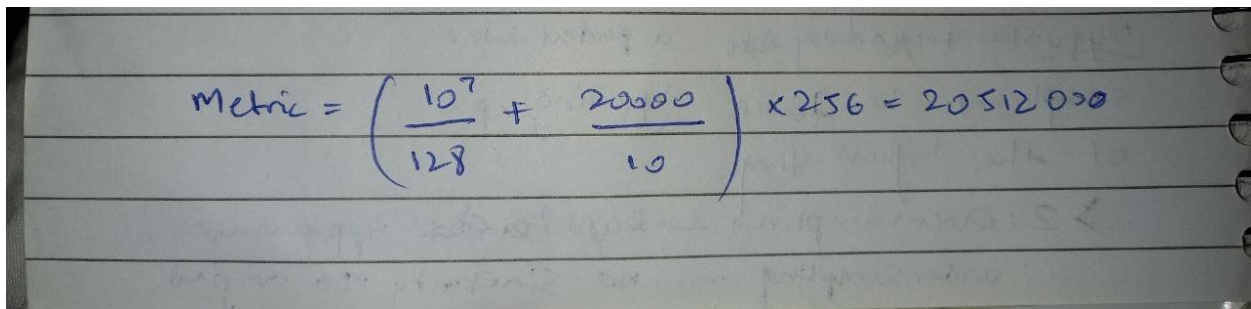
R3:

```
Router>en
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter
area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

D    10.0.0.0/8 [90/21024000] via 30.0.0.1, 00:28:13, Serial2/0
D    20.0.0.0/8 [90/21024000] via 40.0.0.2, 00:27:28, Serial3/0
C    30.0.0.0/8 is directly connected, Serial2/0
C    40.0.0.0/8 is directly connected, Serial3/0
D    50.0.0.0/8 [90/20514560] via 40.0.0.2, 00:26:26, Serial3/0
```

Metric Calculation:



A photograph of a piece of lined paper with handwritten text in blue ink. The text shows a metric calculation: 
$$\text{Metric} = \left( \frac{10^7}{128} + \frac{20000}{10} \right) \times 256 = 20512000$$