Fakultet elektrotehnike i računarstva
Preddiplomski studij Računarstvo
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Komunikacijske mreže

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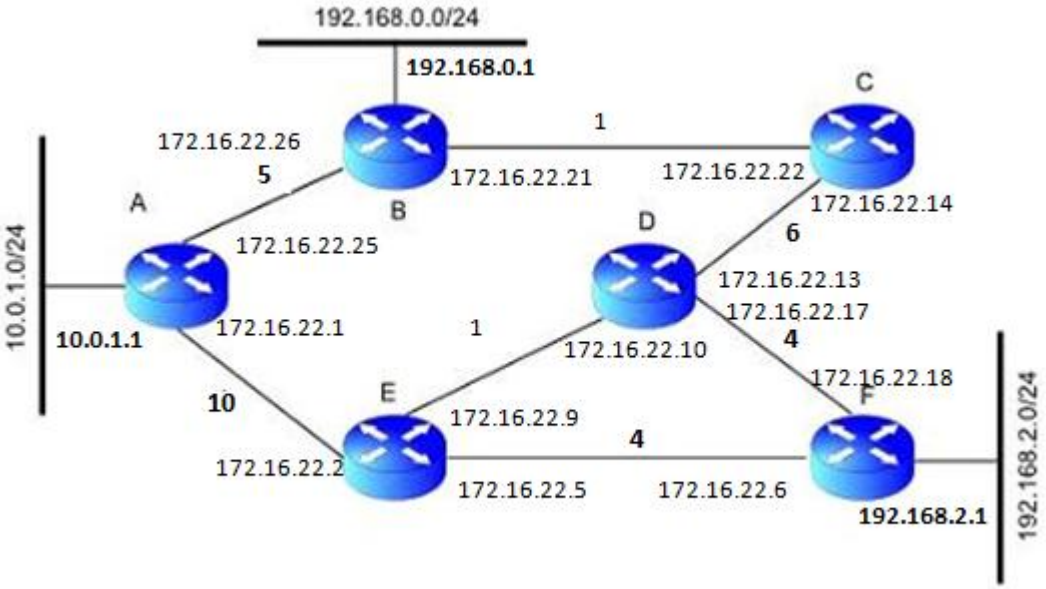
Nastavnik: prof.dr.sc. Gordan Ježić

5. domaća zadaća



Dijkstra
A-F
0.S={ (A,0) }; T={ (B,5), (C,*), (D,*), (E,10), (F,*) }
1.S={ (A,0), (B,5) }; T={ (C,6), (D,*), (E,10), (F,*) }
2.S={ (A,0), (B,5), (C,6) }; T={ (D,12), (E,10), (F,*) }
3.S={ (A,0), (B,5), (C,6), (E,10) }; T={ (D,11), (F,14) }
4.S={ (A,0), (B,5), (C,6), (E,10), (D,11) }; T={ (F,14) }
5.S={ (A,0), (B,5), (C,6), (E,10), (D,11), (F,14) }; T={ }
B-F
0.S={ (B,0) }; T={ (A,5), (C,1), (D,*), (E,*), (F,*) }
1.S={ (B,0), (C,1) }; T={ (A,5), (D,7), (E,*), (F,*) }
2.S={ (B,0), (C,1), (A,5) }; T={ (D,7), (E,15), (F,*) }
3.S={ (B,0), (C,1), (A,5), (D,7) }; T={ (E,8), (F,11) }
4.S={ (B,0), (C,1), (A,5), (D,7), (E,8) }; T={ (F,11) }
5.S={ (B,0), (C,1), (A,5), (D,7), (E,8), (F,11) }; T={ }
C-F
0.S={ (C,0) }; T={ (A,*), (B,1), (D,6), (E,*), (F,*) }
1.S={ (C,0), (B,1) }; T={ (A,6), (D,6), (E,*), (F,*) }
2.S={ (C,0), (B,1), (A,6) }; T={ (D,6), (E,16), (F,*) }
3.S={ (C,0), (B,1), (A,6), (D,6) }; T={ (E,7), (F,10) }
4.S={ (C,0), (B,1), (A,6), (D,6), (E,7) }; T={ (F,10) }
5.S={ (C,0), (B,1), (A,6), (D,6), (E,7), (F,10) }; T={ }
D-F
0.S={ (D,0) }; T={ (A,*), (B,*), (C,6), (E,1), (F,4) }

1.S={ (D,0), (E,1) }; T={ (A,11), (B,*), (C,6), (F,4) }
2.S={ (D,0), (E,1), (F,4) }; T={ (A,11), (B,*), (C,6) }
3.S={ (D,0), (E,1), (F,4), (C,6) }; T={ (A,11), (B,7) }
4.S={ (D,0), (E,1), (F,4), (C,6), (B,7) }; T={ (A,11) }
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E-F
0.S={ (E,0) }; T={ (A,10), (B,*), (C,*), (D,1), (F,4) }
1.S={ (E,0), (D,1) }; T={ (A,10), (B,*), (C,7), (F,4) }
2.S={ (E,0), (D,1), (F,4) }; T={ (A,10), (B,*), (C,7) }
3.S={ (E,0), (D,1), (F,4), (C,7) }; T={ (A,10), (B,8) }
4.S={ (E,0), (D,1), (F,4), (C,7), (B,8) }; T={ (A,10) }
5.S={ (E,0), (D,1), (F,4), (C,7), (B,8), (A,10) }; T={ }
F-F
0.S={ (F,0) }; T={ (A,*), (B,*), (C,*), (D,4), (E,4) }
1.S={ (F,0), (D,4) }; T={ (A,*), (B,*), (C,10), (E,4) }
2.S={ (F,0), (D,4), (E,4) }; T={ (A,14), (B,*), (C,10) }
3.S={ (F,0), (D,4), (E,4), (C,10) }; T={ (A,14), (B,11) }
4.S={ (F,0), (D,4), (E,4), (C,10), (B,11) }; T={ (A,14) }
5.S={ (F,0), (D,4), (E,4), (C,10), (B,11), (A,14) }; T={ }

Router A			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	10.0.1.1	1
192.168.0.0	255.255.255.0	172.16.22.25	6
192.168.2.0	255.255.255.0	172.16.22.1	15

Router B			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	172.16.22.26	6
192.168.0.0	255.255.255.0	192.168.0.1	1
192.168.2.0	255.255.255.0	172.16.22.21	12

Router C			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	172.16.22.22	7
192.168.0.0	255.255.255.0	172.16.22.22	2
192.168.2.0	255.255.255.0	172.16.22.14	11

Router D			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	172.16.22.10	12
192.168.0.0	255.255.255.0	172.16.22.13	8
192.168.2.0	255.255.255.0	172.16.22.17	5

Router E			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	172.16.22.2	11
192.168.0.0	255.255.255.0	172.16.22.9	9
192.168.2.0	255.255.255.0	172.16.22.5	5

Router F			
Destination	Netmask	Gateway	Metric
10.0.1.0	255.255.255.0	172.16.22.6	15
192.168.0.0	255.255.255.0	172.16.22.18	11
192.168.2.0	255.255.255.0	192.168.2.1	1