## 1. RIP (Задание A + Задание Б)

т. тап (вадание т	садание в)			
~	Learning/comp-networks/	lab12/RIP\$ python3 main.	py graph.json	
Final state of rou	uter 153.122.200.4:			
[Source IP]	[Destination IP]	[Next Hop]	Metric	
153.122.200.4	77.176.137.211	77.176.137.211	1	
153.122.200.4	38.254.60.167	38.254.60.167	1	
153.122.200.4	14.184.212.226	77.176.137.211	2	
153.122.200.4	210.198.84.207	38.254.60.167	2	
153.122.200.4	58.145.154.236	77.176.137.211	2	
153.122.200.4	229.76.15.78	38.254.60.167	2	
Final state of ro	uter 77.176.137.211:			
	[Destination IP]	[Next Hop]	Metric	
77.176.137.211	-	153.122.200.4	1	
77.176.137.211		14.184.212.226	1	
77.176.137.211		58.145.154.236	1	
77.176.137.211			2	
77.176.137.211			2	
			3	
//.1/6.13/.211	229.76.15.78	153.122.200.4	3	
	uter 38.254.60.167:			
[Source IP]	[Destination IP]	[Next Hop]	Metric	
38.254.60.167	153.122.200.4	153.122.200.4	1	
38.254.60.167	210.198.84.207	210.198.84.207	1	
38.254.60.167	58.145.154.236	58.145.154.236	1	
38.254.60.167	229.76.15.78	229.76.15.78	1	
38.254.60.167	77.176.137.211	153.122.200.4	2	
38.254.60.167	14.184.212.226	210.198.84.207	2	
Final state of ro	uter 14.184.212.226:			
	[Destination IP]	[Next Hon]	Metric	
	77.176.137.211	77.176.137.211	1	
	210.198.84.207			
14.184.212.226				
14.184.212.226	153.122.200.4	77.176.137.211	2	
14.184.212.226	38.254.60.167	210.198.84.207	2	
14.184.212.226	229.76.15.78	210.198.84.207	2	
14.104.212.220	229.70.13.76	210.130.04.207	2	
	uter 210.198.84.207:			
-	[Destination IP]	[Next Hop]	Metric	
210.198.84.207		38.254.60.167	1	
210.198.84.207	14.184.212.226	14.184.212.226	1	
210.198.84.207	229.76.15.78	229.76.15.78	1	
210.198.84.207	153.122.200.4	38.254.60.167	2	
210.198.84.207	77.176.137.211	14.184.212.226	2	
210.198.84.207	58.145.154.236	38.254.60.167	2	
Final state of router 58.145.154.236:				
	[Destination IP]	[Next Hop]	Metric	
-	77.176.137.211	77.176.137.211	1	

58.145.154.236	38.254.60.167	38.254.60.167	1
58.145.154.236	14.184.212.226	14.184.212.226	1
58.145.154.236	153.122.200.4	77.176.137.211	2
58.145.154.236	210.198.84.207	38.254.60.167	2
58.145.154.236	229.76.15.78	38.254.60.167	2
Final state of route	er 229.76.15.78:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
229.76.15.78	38.254.60.167	38.254.60.167	1
229.76.15.78	210.198.84.207	210.198.84.207	1
229.76.15.78	153.122.200.4	38.254.60.167	2
229.76.15.78	77.176.137.211	38.254.60.167	3
229.76.15.78	14.184.212.226	210.198.84.207	2
229.76.15.78	58.145.154.236	38.254.60.167	2
eartser@eartser:~/Le	earning/comp-networks/lab12	P/RIP\$ python3 main.py	graph.json
mode=simulation			
Simulation step 1 of	router 153.122.200.4:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
153.122.200.4	77.176.137.211	77.176.137.211	1
153.122.200.4	38.254.60.167	38.254.60.167	1
153.122.200.4	14.184.212.226	77.176.137.211	2
153.122.200.4	210.198.84.207	38.254.60.167	2
153.122.200.4	58.145.154.236	77.176.137.211	2
153.122.200.4	229.76.15.78	38.254.60.167	2
Simulation step 1 of	router 77.176.137.211:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
77.176.137.211	153.122.200.4	153.122.200.4	1
77.176.137.211	14.184.212.226	14.184.212.226	1
77.176.137.211	58.145.154.236	58.145.154.236	1
77.176.137.211	38.254.60.167	153.122.200.4	2
77.176.137.211	210.198.84.207	14.184.212.226	2
Simulation step 1 of	router 38.254.60.167:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
38.254.60.167	153.122.200.4	153.122.200.4	1
38.254.60.167	210.198.84.207	210.198.84.207	1
38.254.60.167	58.145.154.236	58.145.154.236	1
38.254.60.167	229.76.15.78	229.76.15.78	1
38.254.60.167	77.176.137.211	153.122.200.4	2
38.254.60.167	14.184.212.226	210.198.84.207	2
Simulation step 1 of	router 14.184.212.226:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
14.184.212.226	77.176.137.211	77.176.137.211	1
14.184.212.226	210.198.84.207	210.198.84.207	1
14.184.212.226	58.145.154.236	58.145.154.236	1
14.184.212.226	153.122.200.4	77.176.137.211	2
14.184.212.226	38.254.60.167	210.198.84.207	2
14.184.212.226	229.76.15.78	210.198.84.207	2

Cimulation atom 1 . C	nouton 310 100 04 307.		
· · · · · · · · · · · · · · · · · · ·	router 210.198.84.207:	EN. 1 17 2	Mark at
	[Destination IP]	[Next Hop]	Metric
210.198.84.207		38.254.60.167	1
210.198.84.207	14.184.212.226	14.184.212.226	1
210.198.84.207	229.76.15.78	229.76.15.78	1
210.198.84.207		38.254.60.167	2
210.198.84.207		14.184.212.226	2
210.198.84.207	58.145.154.236	38.254.60.167	2
· · · · · · · · · · · · · · · · · · ·	router 58.145.154.236:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
58.145.154.236	77.176.137.211	77.176.137.211	1
58.145.154.236	38.254.60.167	38.254.60.167	1
58.145.154.236		14.184.212.226	1
58.145.154.236	153.122.200.4	77.176.137.211	2
58.145.154.236	210.198.84.207	38.254.60.167	2
58.145.154.236	229.76.15.78	38.254.60.167	2
Simulation step 1 of	router 229.76.15.78:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
229.76.15.78	38.254.60.167	38.254.60.167	1
229.76.15.78	210.198.84.207	210.198.84.207	1
229.76.15.78	153.122.200.4	38.254.60.167	2
229.76.15.78	77.176.137.211	38.254.60.167	3
229.76.15.78	14.184.212.226	210.198.84.207	2
229.76.15.78	58.145.154.236	38.254.60.167	2
Simulation step 2 of	router 153.122.200.4:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
153.122.200.4	77.176.137.211	77.176.137.211	1
153.122.200.4	38.254.60.167	38.254.60.167	1
153.122.200.4	14.184.212.226	77.176.137.211	2
153.122.200.4	210.198.84.207	38.254.60.167	2
	58.145.154.236	77.176.137.211	2
153.122.200.4	229.76.15.78	38.254.60.167	2
Simulation step 2 of	router 77.176.137.211:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
	153.122.200.4	153.122.200.4	1
77.176.137.211	14.184.212.226	14.184.212.226	1
77.176.137.211	58.145.154.236	58.145.154.236	1
77.176.137.211		153.122.200.4	2
	210.198.84.207	14.184.212.226	2
77.176.137.211		153.122.200.4	3
Simulation step 2 of	router 38.254.60.167:		
· · · · · · · · · · · · · · · · · · ·	[Destination IP]	[Next Hop]	Metric
38.254.60.167	<del>-</del>	153.122.200.4	1
	210.198.84.207	210.198.84.207	1
	58.145.154.236	58.145.154.236	1
			<del>-</del>

38.254.60.167	229.76.15.78	229.76.15.78	1
38.254.60.167	77.176.137.211	153.122.200.4	2
38.254.60.167	14.184.212.226	210.198.84.207	2
Simulation step 2 of	router 14.184.212.226:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
14.184.212.226	77.176.137.211	77.176.137.211	1
14.184.212.226	210.198.84.207	210.198.84.207	1
14.184.212.226	58.145.154.236	58.145.154.236	1
14.184.212.226	153.122.200.4	77.176.137.211	2
14.184.212.226	38.254.60.167	210.198.84.207	2
14.184.212.226	229.76.15.78	210.198.84.207	2
14.104.212.220	229.70.13.76	210.130.04.207	2
Simulation step 2 of	router 210.198.84.207:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
210.198.84.207	38.254.60.167	38.254.60.167	1
210.198.84.207	14.184.212.226	14.184.212.226	1
210.198.84.207	229.76.15.78	229.76.15.78	1
210.198.84.207	153.122.200.4	38.254.60.167	2
210.198.84.207	77.176.137.211	14.184.212.226	2
210.198.84.207	58.145.154.236	38.254.60.167	2
Simulation sten 2 of	router 58.145.154.236:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
58.145.154.236	77.176.137.211	77.176.137.211	1
	38.254.60.167	38.254.60.167	1
58.145.154.236			
58.145.154.236	14.184.212.226	14.184.212.226	1
58.145.154.236	153.122.200.4	77.176.137.211	2
58.145.154.236	210.198.84.207	38.254.60.167	2
58.145.154.236	229.76.15.78	38.254.60.167	2
Simulation step 2 of	router 229.76.15.78:		
[Source IP]		[Next Hop]	Metric
229.76.15.78	38.254.60.167	38.254.60.167	1
229.76.15.78	210.198.84.207	210.198.84.207	1
229.76.15.78	153.122.200.4	38.254.60.167	2
229.76.15.78	77.176.137.211	38.254.60.167	3
229.76.15.78	14.184.212.226	210.198.84.207	2
229.76.15.78	58.145.154.236	38.254.60.167	2
Simulation sten 3 of	router 153.122.200.4:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
153.122.200.4	77.176.137.211	77.176.137.211	1
153.122.200.4	38.254.60.167	38.254.60.167	1
153.122.200.4	14.184.212.226	77.176.137.211	2
153.122.200.4	210.198.84.207	38.254.60.167	2
153.122.200.4	58.145.154.236	77.176.137.211	2
153.122.200.4	229.76.15.78	38.254.60.167	2
Simulation stop 2 of	router 77.176.137.211:		
[Source IP]	[Destination IP]	[Nov+ Hon]	Metric
[Jource 17]	[Descination if]	[Next Hop]	HECT IC

77.176.137.211	153.122.200.4	153.122.200.4	1
77.176.137.211	14.184.212.226	14.184.212.226	1
77.176.137.211	58.145.154.236	58.145.154.236	1
77.176.137.211	38.254.60.167	153.122.200.4	2
77.176.137.211	210.198.84.207	14.184.212.226	2
77.176.137.211	229.76.15.78	153.122.200.4	3
77.170.137.211	223.70.13.70	133.122.200.4	3
Simulation step 3 of	router 38.254.60.167:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
38.254.60.167	153.122.200.4	153.122.200.4	1
38.254.60.167	210.198.84.207	210.198.84.207	1
38.254.60.167	58.145.154.236	58.145.154.236	1
38.254.60.167	229.76.15.78	229.76.15.78	1
38.254.60.167	77.176.137.211	153.122.200.4	2
38.254.60.167	14.184.212.226	210.198.84.207	2
Simulation step 3 of	router 14.184.212.226:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
14.184.212.226	77.176.137.211	77.176.137.211	1
14.184.212.226	210.198.84.207	210.198.84.207	1
14.184.212.226	58.145.154.236	58.145.154.236	1
14.184.212.226	153.122.200.4	77.176.137.211	2
14.184.212.226			
	38.254.60.167	210.198.84.207	2
14.184.212.226	229.76.15.78	210.198.84.207	2
Simulation step 3 of	router 210.198.84.207:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
210.198.84.207	38.254.60.167	38.254.60.167	1
210.198.84.207	14.184.212.226	14.184.212.226	1
210.198.84.207	229.76.15.78	229.76.15.78	1
210.198.84.207	153.122.200.4	38.254.60.167	2
210.198.84.207	77.176.137.211	14.184.212.226	2
210.198.84.207	58.145.154.236	38.254.60.167	2
210.190.04.207	30.143.134.230	30.234.00.107	2
Simulation step 3 of	router 58.145.154.236:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
58.145.154.236	77.176.137.211	77.176.137.211	1
58.145.154.236	38.254.60.167	38.254.60.167	1
58.145.154.236	14.184.212.226	14.184.212.226	1
58.145.154.236	153.122.200.4	77.176.137.211	2
58.145.154.236	210.198.84.207	38.254.60.167	2
58.145.154.236	229.76.15.78	38.254.60.167	2
30.143.134.230	223.70.13.70	30.234.00.107	2
Simulation step 3 of	router 229.76.15.78:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
229.76.15.78	38.254.60.167	38.254.60.167	1
229.76.15.78	210.198.84.207	210.198.84.207	1
229.76.15.78	153.122.200.4	38.254.60.167	2
229.76.15.78	77.176.137.211	38.254.60.167	3
229.76.15.78	14.184.212.226	210.198.84.207	2
229.76.15.78	58.145.154.236	38.254.60.167	2
			_

Final state of r	outer 153.122.200.4:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
153.122.200.4	77.176.137.211	77.176.137.211	1
153.122.200.4	38.254.60.167	38.254.60.167	1
153.122.200.4	14.184.212.226	77.176.137.211	2
153.122.200.4	210.198.84.207	38.254.60.167	2
153.122.200.4	58.145.154.236	77.176.137.211	2
153.122.200.4	229.76.15.78	38.254.60.167	2
Final state of r	outer 77.176.137.211:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
77.176.137.211	153.122.200.4	153.122.200.4	1
77.176.137.211	14.184.212.226	14.184.212.226	1
	58.145.154.236	58.145.154.236	1
77.176.137.211	38.254.60.167	153.122.200.4	2
77.176.137.211		14.184.212.226	2
	229.76.15.78	153.122.200.4	3
			_
Final state of r	outer 38.254.60.167:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
38.254.60.167	153.122.200.4	153.122.200.4	1
38.254.60.167	210.198.84.207	210.198.84.207	1
38.254.60.167	58.145.154.236	58.145.154.236	1
38.254.60.167	229.76.15.78	229.76.15.78	1
38.254.60.167	77.176.137.211	153.122.200.4	2
38.254.60.167		210.198.84.207	2
Final state of r	outer 14.184.212.226:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
14.184.212.226	77.176.137.211	77.176.137.211	1
14.184.212.226	210.198.84.207	210.198.84.207	1
14.184.212.226	58.145.154.236	58.145.154.236	1
14.184.212.226	153.122.200.4	77.176.137.211	2
	38.254.60.167	210.198.84.207	2
	229.76.15.78	210.198.84.207	2
Final state of r	outer 210.198.84.207:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
210.198.84.207	38.254.60.167	38.254.60.167	1
210.198.84.207	14.184.212.226	14.184.212.226	1
210.198.84.207	229.76.15.78	229.76.15.78	1
	153.122.200.4	38.254.60.167	2
210.198.84.207	77.176.137.211	14.184.212.226	2
	58.145.154.236	38.254.60.167	2
Final state of r	outer 58.145.154.236:		
	[Destination IP]	[Next Hop]	Metric
	77.176.137.211	77.176.137.211	1
58.145.154.236	38.254.60.167	38.254.60.167	1
	14.184.212.226	14.184.212.226	1

58.145.154.236	153.122.200.4	77.176.137.211	2
58.145.154.236	210.198.84.207	38.254.60.167	2
58.145.154.236	229.76.15.78	38.254.60.167	2
Final state of ro	uter 229.76.15.78:		
[Source IP]	[Destination IP]	[Next Hop]	Metric
229.76.15.78	38.254.60.167	38.254.60.167	1
229.76.15.78	210.198.84.207	210.198.84.207	1
229.76.15.78	153.122.200.4	38.254.60.167	2
229.76.15.78	77.176.137.211	38.254.60.167	3
229.76.15.78	14.184.212.226	210.198.84.207	2
229.76.15.78	58.145.154.236	38.254.60.167	2

## 3. Транслятор портов

