

EP-Lab04-2021

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EX1:

TaskA:

sudo tcpdump -ni any port 80 -v -s0 -X --time-stamp-precision=nano --number

curl ocw.cs.pub.ro

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://ocw.cs.pub.ro/">here</a>!.</p>
<hr>
<address>Apache/2.4.10 (Debian) Server at ocw.cs.pub.ro Port 80</address>
</body></html>
0x0000: 4500 0234 62ce 4000 3506 4bb2 8d55 e341 E..4b.@.5.K..U.A
0x0010: c0a8 6404 0050 a1b2 5188 0009 8c8e dd86 ..d..P..Q.....
0x0020: 8018 00e3 f1e9 0000 0101 080a 1ca3 62c4 .....b.
0x0030: f2bf 1397 4854 5450 2f31 2e31 2033 3031 ....HTTP/1.1.301
0x0040: 204d 6f76 6564 2050 6572 6d61 6e65 6e74 .Moved Permanent
0x0050: 6c79 0d0a 4461 7465 3a20 5475 652c 2030 ly..Date:.Tue,.0
0x0060: 3220 4e6f 7620 3230 3231 2030 383a 3135 2.Nov.2021.08:15
0x0070: 3a32 3220 474d 540d 0a53 6572 7665 723a :22 GMT. Server:
0x0080: 2041 7061 6368 652f 322e 342e 3130 2028 .Apache/2.4.10.(
0x0090: 4465 6269 616e 290d 0a4c 6f63 6174 696f Debian)..Locatio
0x00a0: 6e3a 2068 7474 7073 3a2f 2f6f 6377 2e63 n:https://ocw.c
0x00b0: 732e 7075 622e 726f 0a43 6f6e 7465 s.pub.ro/.Conte
0x00c0: 6e74 2d4c 656e 6774 683a 2033 3039 0d0a nt-Length:.309..
0x00d0: 436f 6e74 656e 742d 5479 7065 3a20 7465 Content-Type:.te
0x00e0: 7874 2f68 746d 6c3b 2063 6861 7273 6574 xt/html;.charset
0x0200: 7220 6174 206f 6377 2e63 732e 7075 622e r.at.ocw.cs.pub.
0x0210: 726f 2050 6f72 7420 3830 3c2f 6164 6472 ro.Port.80</addr
0x0220: 6573 733e 0a3c 2f62 6f64 793e 3c2f 6874 ess>.</body></ht
0x0230: 6d6c 3e0a m>.
7 10:15:22.816055327 IP (tos 0x0, ttl 64, id 49795, offset 0, flags [DF], proto TCP (6), length 52)
192.168.100.4.41394 > 141.85.227.65.80: Flags [I], cksum 0x956a (incorrect -> 0xfalb), ack 513, win 498, options [nop,nop,TS val 407
2608667 ecr 480469700], length 0
0x0000: 4500 0034 c283 4000 4006 e2fc c0a8 6404 E..4..@.@.....d.
0x0010: 8d55 e341 a1b2 0050 8c8e dd86 5188 0209 .U.A...P...Q...
0x0020: 8010 01f2 956a 0000 0101 080a f2bf 139b .....j.....
0x0030: 1ca3 62c4 .....b.
4 10:16:36.475984818 IP (tos 0x0, ttl 57, id 0, offset 0, flags [DF], proto TCP (6), length 40)
93.184.220.29.80 > 192.168.100.4.42986: Flags [R], cksum 0x1de3 (correct), seq 1171408238, win 0, length 0
0x0000: 4500 0028 0000 4000 3906 e34d 5db8 dc1d E..(..@.9..M)...
0x0010: c0a8 6404 0050 a7ea 45d2 456e 0000 0000 ..d..P..E.En....
0x0020: 5004 0000 1de3 0000 .....P.....
0x0030: .....P.....
5 10:16:58.960722907 IP6 (flowlabel 0x6c24d, hlim 64, next-header TCP (6) payload length: 20) 2a02:2f00:101:a500:2011:9259:f9:2c89.
41502 > 2606:4700::6812:1eb6.80: Flags [I], cksum 0xd2d9 (incorrect -> 0xde53), ack 1443420374, win 501, length 0
0x0000: 6006 c24d 0014 0640 2a02 2f00 0101 a500 ..M...@*./.....
0x0010: 2011 9259 00f9 2c89 2606 4700 0000 0000 ...Y...&.G.....
0x0020: 0000 0000 6812 1eb6 a21e 0050 811f aa5f ...h.....P....
0x0030: 5608 d8d6 5010 01f5 d2d9 0000 V...P.....
6 10:16:58.965009726 IP6 (flowlabel 0x3afd0, hlim 58, next-header TCP (6) payload length: 20) 2606:4700::6812:1eb6.80 > 2a02:2f00:1
01:a500:2011:9259:f9:2c89.41502: Flags [I], cksum 0xe005 (correct), ack 1, win 66, length 0
0x0000: 6003 afd0 0014 063a 2606 4700 0000 0000 .....&.G.....
0x0010: 0000 0000 6812 1eb6 2a02 2f00 0101 a500 ...h...@*./.....
0x0020: 2011 9259 00f9 2c89 0050 a21e 5608 d8d6 ...Y.....P..V...
0x0030: 811f aa60 5010 0042 e005 0000 ...`P..B.....
```

ntpddate -q ro.pool.ntp.org

```
3 10:16:36.453088539 IP6 (flowlabel 0x9e167, hlim 60, next-header TCP (6) payload length: 20) 2600:1900:4110:86f::80 > 2a02:2f00:1
01:a500:2011:9259:f9:2c89.38336: Flags [R], cksum 0x400e (correct), seq 1217079751, win 0, length 0
0x0000: 6009 e167 0014 063c 2600 1900 4110 086f ``.g...<&..A..o
0x0010: 0000 0000 0000 0000 2a02 2f00 0101 a500 .....*./.....
0x0020: 2011 9259 00f9 2c89 0050 95c0 488b 29c7 ...Y...&.P..H..).
0x0030: 0000 0000 5004 0000 400e 0000 .....P...@...
4 10:16:36.475984818 IP (tos 0x0, ttl 57, id 0, offset 0, flags [DF], proto TCP (6), length 40)
93.184.220.29.80 > 192.168.100.4.42986: Flags [R], cksum 0x1de3 (correct), seq 1171408238, win 0, length 0
0x0000: 4500 0028 0000 4000 3906 e34d 5db8 dc1d E..(..@.9..M)...
0x0010: c0a8 6404 0050 a7ea 45d2 456e 0000 0000 ..d..P..E.En....
0x0020: 5004 0000 1de3 0000 .....P.....
0x0030: .....P.....
5 10:16:58.960722907 IP6 (flowlabel 0x6c24d, hlim 64, next-header TCP (6) payload length: 20) 2a02:2f00:101:a500:2011:9259:f9:2c89.
41502 > 2606:4700::6812:1eb6.80: Flags [I], cksum 0xd2d9 (incorrect -> 0xde53), ack 1443420374, win 501, length 0
0x0000: 6006 c24d 0014 0640 2a02 2f00 0101 a500 ..M...@*./.....
0x0010: 2011 9259 00f9 2c89 2606 4700 0000 0000 ...Y...&.G.....
0x0020: 0000 0000 6812 1eb6 a21e 0050 811f aa5f ...h.....P....
0x0030: 5608 d8d6 5010 01f5 d2d9 0000 V...P.....
6 10:16:58.965009726 IP6 (flowlabel 0x3afd0, hlim 58, next-header TCP (6) payload length: 20) 2606:4700::6812:1eb6.80 > 2a02:2f00:1
01:a500:2011:9259:f9:2c89.41502: Flags [I], cksum 0xe005 (correct), ack 1, win 66, length 0
0x0000: 6003 afd0 0014 063a 2606 4700 0000 0000 .....&.G.....
0x0010: 0000 0000 6812 1eb6 2a02 2f00 0101 a500 ...h...@*./.....
0x0020: 2011 9259 00f9 2c89 0050 a21e 5608 d8d6 ...Y.....P..V...
0x0030: 811f aa60 5010 0042 e005 0000 ...`P..B.....
```


TaskB:

Task1:

sudo iptables -t filter -I OUTPUT -p tcp -j LOG --log-prefix "EP: "

```
[ 901.899770] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=54.192.235.71 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=16465 DF PROTO=TCP SPT=54954 D
=443 WINDOW=501 RES=0x00 ACK URG=0
[ 902.215775] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=185.184.8.65 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=44360 DF PROTO=TCP SPT=39562 DP
443 WINDOW=501 RES=0x00 ACK URG=0
[ 903.293880] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=52.114.104.44 LEN=222 TOS=0x00 PREC=0x00 TTL=64 ID=12180 DF PROTO=TCP SPT=35576
T=443 WINDOW=501 RES=0x00 ACK PSH URG=0
[ 904.844519] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=52.114.104.13 LEN=750 TOS=0x00 PREC=0x00 TTL=64 ID=5913 DF PROTO=TCP SPT=60365 D
=443 WINDOW=501 RES=0x00 ACK PSH URG=0
[ 906.009309] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=35.224.170.84 LEN=60 TOS=0x00 PREC=0x00 TTL=64 ID=8701 DF PROTO=TCP SPT=51514 DP
80 WINDOW=64240 RES=0x00 SYN URG=0
[ 906.145823] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=35.224.170.84 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=8702 DF PROTO=TCP SPT=51514 DP
80 WINDOW=502 RES=0x00 ACK URG=0
[ 906.146004] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=35.224.170.84 LEN=139 TOS=0x00 PREC=0x00 TTL=64 ID=8703 DF PROTO=TCP SPT=51514 D
=80 WINDOW=502 RES=0x00 ACK PSH URG=0
[ 906.284361] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=35.224.170.84 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=8704 DF PROTO=TCP SPT=51514 DP
80 WINDOW=501 RES=0x00 ACK URG=0
[ 906.284595] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=35.224.170.84 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=8705 DF PROTO=TCP SPT=51514 DP
80 WINDOW=501 RES=0x00 ACK FIN URG=0
[ 906.447781] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=54.68.215.86 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=1582 DF PROTO=TCP SPT=42956 DP
43 WINDOW=501 RES=0x00 ACK URG=0
[ 918.595820] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=52.111.255.0 LEN=40 TOS=0x00 PREC=0x00 TTL=64 ID=60264 DF PROTO=TCP SPT=54656 DP
443 WINDOW=501 RES=0x00 ACK URG=0
[ 923.011839] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=20.42.65.85 LEN=40 TOS=0x00 PREC=0x00 TTL=64 ID=10638 DF PROTO=TCP SPT=45180 DP
43 WINDOW=501 RES=0x00 ACK URG=0
[ 924.743837] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=50.112.134.240 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=43032 DF PROTO=TCP SPT=39822
T=443 WINDOW=501 RES=0x00 ACK URG=0
[ 925.100476] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=52.114.104.13 LEN=750 TOS=0x00 PREC=0x00 TTL=64 ID=5914 DF PROTO=TCP SPT=60365 D
=443 WINDOW=501 RES=0x00 ACK PSH URG=0
[ 926.787841] EP: IN= OUT=wlo1 SRC=192.168.100.4 DST=199.232.138.167 LEN=52 TOS=0x00 PREC=0x00 TTL=64 ID=54971 DF PROTO=TCP SPT=47634
PT=443 WINDOW=501 RES=0x00 ACK URG=0
```

Task2:

```
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 1
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 2
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 3
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 4
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 5
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 6
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 7
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 8
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 9
ghostpants@ghostmachine in ~/Documents/UPB_IV_C2_2020-2021/EP/lab04 on EP-2021 x (origin/EP-2021)
$ sudo iptables -t mangle -A OUTPUT -p udp --dport 53 -j TTL --ttl-set 10
```

```
$ dig +short fep.grid.pub.ro @8.8.8.8
141.85.241.99
```

Task3:

Cand pachetele sunt blocate de firewall.

EX2:

TaskA:

```
l$ ip -c neigh show --interface=$1 # scanned n
192.168.100.1 dev wlo1 lladdr 94:00:b0:5d:af:cc REACHABLE # only loca
fe80::9600:b0ff:fe5d:afcc dev wlo1 lladdr 94:00:b0:5d:af:cc router DELAY # hide head
fe80::1 dev wlo1 lladdr 94:00:b0:5d:af:cc router REACHABLE
```

```
l$ sudo arp-scan --localnet
Interface: wlo1, datalink type: EN10MB (Ethernet)
Starting arp-scan 1.9 with 256 hosts (http://www.nta-monitor.com/tools/arp-scan/)
192.168.100.1 94:00:b0:5d:af:cc (Unknown)
192.168.100.3 88:66:5a:1c:11:fa (Unknown)
192.168.100.5 e8:d8:19:8e:55:05 (Unknown)

4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.9: 256 hosts scanned in 4.602 seconds (55.63 hosts/sec). 3 responded
```

```
l$ ./arp.sh wlo1
192.168.100.1 (Unknown)
192.168.100.3 (Unknown)
192.168.100.5 (Unknown)
```

Task1:
sudo iptables -t filter -I OUTPUT -
==> ok
==> fail
==> ok

TaskB:

```
l$ sudo nmap -sn # disable port scan`
-Pn # disable host discovery`
-tr # perform traceroute`
8.8.8.8

Starting Nmap 7.60 ( https://nmap.org ) at 2021-
Nmap scan report for dns.google (8.8.8.8)
Host is up (0.022s latency).

EX2:
TaskA:
TRACEROUTE (using proto 1/icmp)
HOP RTT ADDRESS
1 3.16 ms gateway (192.168.100.1)
2 4.44 ms StamAcasa.rdsnet.ro (10.0.0.1)
3 6.24 ms 10.28.24.65
4 12.94 ms 10.220.158.66
5 20.85 ms 10.220.155.52
6 24.03 ms 209.85.168.182
7 20.86 ms 74.125.242.241
8 20.87 ms 142.251.65.227
9 22.35 ms dns.google (8.8.8.8)

Nmap done: 1 IP address (1 host up) scanned in 0.22 seconds
```

```
l$ traceroute 8.8.8.8
traceroute to 8.8.8.8 (8.8.8.8), 30 hops max, 60 byte packets
1 gateway (192.168.100.1) 1.665 ms 1.539 ms 1.486 ms
2 StamAcasa.rdsnet.ro (10.0.0.1) 5.561 ms 5.513 ms 5.467 ms
3 10.28.24.65 (10.28.24.65) 5.894 ms 5.837 ms 5.790 ms
4 10.220.148.206 (10.220.148.206) 16.404 ms 16.322 ms 16.240 ms
5 10.220.178.110 (10.220.178.110) 22.783 ms 22.711 ms 22.639 ms
6 72.14.216.212 (72.14.216.212) 22.645 ms 22.573 ms 22.501 ms
7 * * *
8 142.251.65.221 (142.251.65.221) 23.129 ms 23.057 ms 22.985 ms
9 dns.google (8.8.8.8) 20.069 ms 19.981 ms 19.893 ms
```


EX3:

TaskA:

```
$ make -j $(nproc)
gcc -c -I include -o obj/str_proto.o src/str_proto.c
g++ -o bin/ops-inject obj/decoders.o obj/cli_args.o obj/reassemblers.o obj/main.o obj/str_proto.o obj/ops_udp.o obj/csum.o obj/ops_tcp.o obj/ops_ip.o -lnetfilter_queue -lnfnetlink
```

```
[*] src/main.cpp:159 Parsed cli arguments
[*] src/main.cpp:164 Opened nfq handle
[*] src/main.cpp:170 Bound nfq handle to queue
[*] src/main.cpp:175 Set copy packet mode
[*] src/main.cpp:189 Starting main loop
```

```
$ ping -c 3 $(dig +short digitalocean.com | head -n 1)
PING 104.16.181.15 (104.16.181.15) 56(84) bytes of data.
64 bytes from 104.16.181.15: icmp_seq=1 ttl=57 time=46.7 ms
64 bytes from 104.16.181.15: icmp_seq=2 ttl=57 time=14.2 ms
64 bytes from 104.16.181.15: icmp_seq=3 ttl=57 time=9.46 ms

--- 104.16.181.15 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2000ms
rtt min/avg/max/mdev = 9.462/57.453/143.893/61.246 ms
```

Normally, we would need **wireshark** or **tcpdump** to see the result but fortunately, **ping** is a Record Route option. The reason for this is that it can generate it itself (see **-R** option). Should it received a Record Route option in response to a normal ICMP Echo Request? Apparently not

```
[*] src/main.cpp:159 Parsed cli arguments
[*] src/main.cpp:164 Opened nfq handle
[*] src/main.cpp:170 Bound nfq handle to queue
[*] src/main.cpp:175 Set copy packet mode
[*] src/main.cpp:189 Starting main loop
[-] src/main.cpp:101 Received new packet: src=192.168.100.4 dst=104.16.181.15 proto="Internet Control Message Protocol"
[-] src/main.cpp:101 Received new packet: src=192.168.100.4 dst=104.16.181.15 proto="Internet Control Message Protocol"
[-] src/main.cpp:101 Received new packet: src=192.168.100.4 dst=104.16.181.15 proto="Internet Control Message Protocol"
```

TaskB:

sudo tcpdump -U -i any -v -s0 -X >> log

```
$ cat log | grep ICMP
11:04:26.921458 IP (tos 0x0, ttl 64, id 56936, offset 0, flags [DF], proto ICMP (1), length 84)
  ghostmachine > 104.16.182.15: ICMP echo request, id 20588, seq 1, length 64
11:04:26.925170 IP (tos 0x0, ttl 58, id 10123, offset 0, flags [none], proto ICMP (1), length 84)
  104.16.182.15 > ghostmachine: ICMP echo reply, id 20588, seq 1, length 64
11:04:27.923305 IP (tos 0x0, ttl 64, id 57061, offset 0, flags [DF], proto ICMP (1), length 84)
  ghostmachine > 104.16.182.15: ICMP echo request, id 20588, seq 2, length 64
11:04:27.926731 IP (tos 0x0, ttl 58, id 10208, offset 0, flags [none], proto ICMP (1), length 84)
  104.16.182.15 > ghostmachine: ICMP echo reply, id 20588, seq 2, length 64
11:04:28.924605 IP (tos 0x0, ttl 64, id 57239, offset 0, flags [DF], proto ICMP (1), length 84)
  ghostmachine > 104.16.182.15: ICMP echo request, id 20588, seq 3, length 64
11:04:28.928244 IP (tos 0x0, ttl 58, id 20787, offset 0, flags [none], proto ICMP (1), length 84)
  104.16.182.15 > ghostmachine: ICMP echo reply, id 20588, seq 3, length 64
11:04:31.491183 IP6 (hlim 255, next-header ICMPv6 (58) payload length: 16) fe80::9600:b0ff:fe5d:afd8 > ip6-allrouters: [icmp6 sum ok] ICMPv6, router solicitation, length 16
```

TaskC:

sudo tcpdump -U -i any -v -s0 -X -w logs.pcap
sudo tshark -r logs.pcap

```
$ sudo tshark -r logs.pcap | grep ICMP
Running as user "root" and group "root". This could be dangerous.
2226  29.360958 fe80::9600:b0ff:fe5d:afd8 -> ff02::2: ICMPv6 72 Router Solicitation from 94:00:b0:5d:af:d8
2243  30.005007 fe80::9600:b0ff:fe5d:afcc -> 2a02:2f00:101:a500:2011:9259:f9:2c89 ICMPv6 88 Neighbor Solicitation for 2a02:2f00:101:a500:2011:9259:f9:2c89 from 94:00:b0:5d:af:cc
2244  30.005067 2a02:2f00:101:a500:2011:9259:f9:2c89 -> fe80::9600:b0ff:fe5d:afcc ICMPv6 80 Neighbor Advertisement 2a02:2f00:101:a500:2011:9259:f9:2c89 (sol)
2340  35.172296 fe80::4ed5:5057:9b51:d0f6 -> fe80::9600:b0ff:fe5d:afcc ICMPv6 88 Neighbor Solicitation for fe80::9600:b0ff:fe5d:afcc from 94:00:b0:5d:af:cc
2341  35.174141 fe80::9600:b0ff:fe5d:afcc -> fe80::4ed5:5057:9b51:d0f6 ICMPv6 80 Neighbor Advertisement fe80::9600:b0ff:fe5d:afcc (rtr, sol)
2423  40.172110 fe80::9600:b0ff:fe5d:afcc -> fe80::4ed5:5057:9b51:d0f6 ICMPv6 88 Neighbor Solicitation for fe80::4ed5:5057:9b51:d0f6 from 94:00:b0:5d:af:cc
2424  40.172169 fe80::4ed5:5057:9b51:d0f6 -> fe80::9600:b0ff:fe5d:afcc ICMPv6 80 Neighbor Advertisement fe80::4ed5:5057:9b51:d0f6 (sol)
```

TaskD-E:

Atata s-a putut.

EX4:

Feedback Performance Evaluation

Your response has been recorded.

[Submit another response](#)

