

P1、

(A)发送给主机H3的数据是通过接口3转发的

目标地址	链接接口
H3	3

b)否，因为转发规则仅基于目标地址。

P4:所需的最小时隙数为 2，最差情况下时隙数量最大为 3。

P6、

Destination Address Range	Link Interface
00000000	
through	0
00111111	
01000000	
through	1
01011111	
01100000	
through	2
01111111	
10000000	
through	2
10111111	
11000000	
through	3
11111111	

接口0的地址数量= $2^6 = 64$ 个

接口1的地址数量= $2^5 = 32$ 个

接口2的地址数量= $2^6 + 2^5 = 64 + 32 = 96$ 个。

接口3的地址数量= $2^6 = 64$ 个

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1	223.1.17.0/26
2	223.1.17.128/25
3	223.1.17.192/28

P11、在128.119.40.128至128.119.40.191范围内任何IP地址

四个同等大小的子网：128.119.40.64/28，128.119.40.80/28，128.119.40.96/28，128.119.40.112/28。

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a) 家庭地址：192.168.1.1、192.168.1.2、192.168.1.3，路由器接口为192.168.1.4

b)

NAT Translation Table	
WAN Side	LAN Side
24.34.112.235, 4000	192.168.1.1, 3345
24.34.112.235, 4001	192.168.1.1, 3346
24.34.112.235, 4002	192.168.1.2, 3445
24.34.112.235, 4003	192.168.1.2, 3446
24.34.112.235, 4004	192.168.1.3, 3545
24.34.112.235, 4005	192.168.1.3, 3546

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<b>S2 Flow Table</b>	
Match	Action
Ingress Port = 1; IP Src = 10.3.*.* ; IP Dst = 10.1.*.*	Forward (2)
Ingress Port = 2; IP Src = 10.1.*.* ; IP Dst = 10.3.*.*	Forward (1)
Ingress Port = 1; IP Dst = 10.2.0.3	Forward (3)
Ingress Port = 2; IP Dst = 10.2.0.3	Forward (3)
Ingress Port = 1; IP Dst = 10.2.0.4	Forward (4)
Ingress Port = 2; IP Dst = 10.2.0.4	Forward (4)
Ingress Port = 4	Forward (3)
Ingress Port = 3	Forward (4)

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<b>S1 Flow Table</b>	
Match	Action
IP Src = 10.2.; IP Dst = 10.1.0.1	Forward (2)
IP Src = 10.2.; IP Dst = 10.1.0.2	Forward (3)
IP Src = 10.2.; IP Dst = 10.3.*.*	Forward (1)

<b>S3 Flow Table</b>	
Match	Action
IP Src = 10.2.; IP Dst = 10.3.0.6	Forward (1)
IP Src = 10.2.; IP Dst = 10.3.0.5	Forward (2)
IP Src = 10.2.; IP Dst = 10.1.*.*	Forward (3)

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S2 Flow Table	
Match	Action
IP Src = 10.1.0.1; IP Dst = 10.2.0.3	Forward (3)
IP Src = 10.1.0.1; IP Dst = 10.2.0.4	Forward (4)
IP Src = 10.3.0.6; IP Dst = 10.2.0.3	Forward (3)
IP Src = 10.3.0.6; IP Dst = 10.2.0.4	Forward (4)

S2 Flow Table	
Match	Action
IP Src = .*.*.**.* ; IP Dst = 10.2.0.3; port = TCP	Forward (3)
IP Src = .*.*.**.* ; IP Dst = 10.2.0.4; port = TCP	Forward (4)

S2 Flow Table	
Match	Action
源IP = .*.*.**.* ; 目标IP = 10.2.0.3	Forward (3)

S2 Flow Table	
Match	行为
源IP= 10.1.0.1; 目标IP = 10.2.0.3; port = UDP	Forward (3)

第四次作业批改后链接：

<https://web.ugreen.cloud/web/#/share/fb4e49c65dc44646a3f941e41865324f> 提取码：  
V386