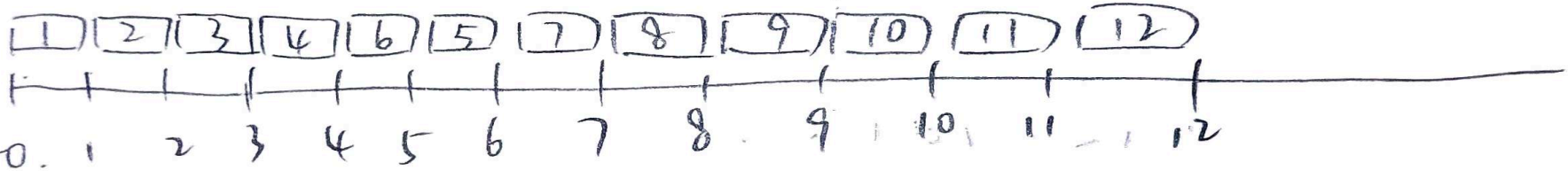
P6. a.

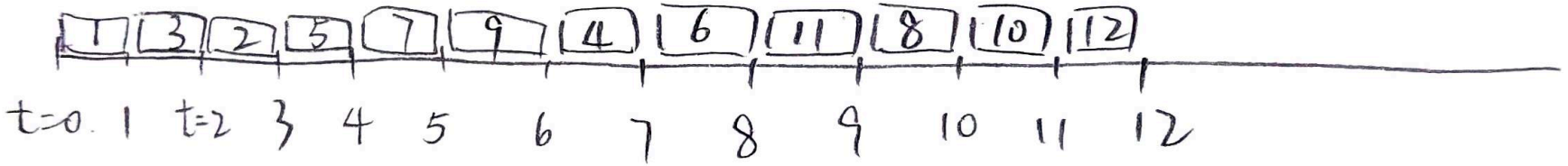


对每个数据包. 延迟: $t_1=0$, $t_2=1$, $t_3=1$, $t_4=2$, $t_5=2$ $t_6=2$.

$t_7=3$, $t_8=2$, $t_9=3$, $t_{10}=2$, $t_{11}=2$, $t_{12}=3$.

∴ 平均延迟: $23/12 = 1.9\text{s}$. 2.09s.

b.

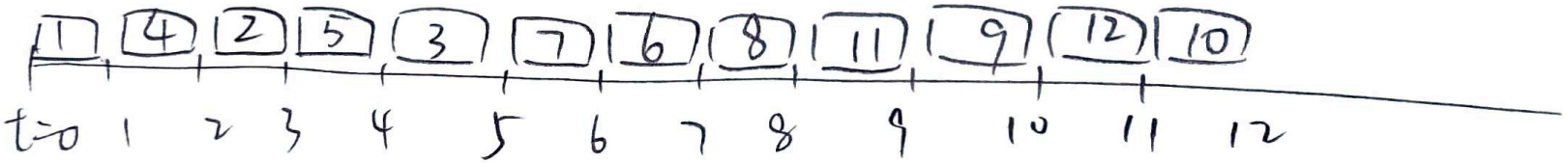


迟迟：$t_2 = 2$，$t_3 = 0$，$t_4 = 5$，$t_5 = 0$，$t_6 = 5$，

$t_7 = 1$，$t_8 = 4$，$t_9 = 0$，$t_{10} = 3$，$t_{11} = 0$，$t_{12} = 3$.

平均：$23 / 11 = 2.09$ s.

c.

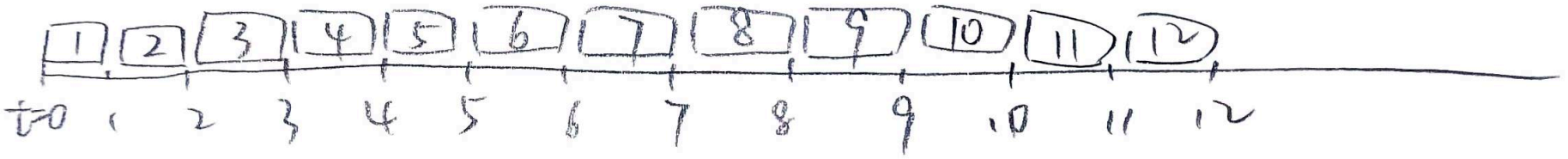


延迟：$t_2 = 2$，$t_3 = 3$，$t_4 = 0$，$t_5 = 0$，$t_6 = 4$

$t_7 = 2$，$t_8 = 2$，$t_9 = 4$，$t_{10} = 4$，$t_{11} = 0$，$t_{12} = 2$。

平均：$23/11 = 2.09$ s

d.



延迟: $t_2 = 1$, $t_3 = 1$, $t_4 = 2$, $t_5 = 1$ $t_6 = 3$

$t_7 = 3$, $t_8 = 2$, $t_9 = 3$, $t_{10} = 2$ $t_{11} = 2$, $t_{12} = 3$.

∴ 平均延迟: $23/11 = 2.09s$

e. 数据大小相等. 平均延迟为每个数据包的延迟.

P9.

0接口，00000000 ~ 00111111，64个地址

1接口，01000000 ~ 01011111，32个地址

2接口，01100000 ~ 01111111，32个.

10 000000 ~ 10111111，64个.

共96个.

3接口，11000000 ~ 11111111，64个.

P15. a.

A: 214.97.254.0/24 (9位256, 32-9+1=24).

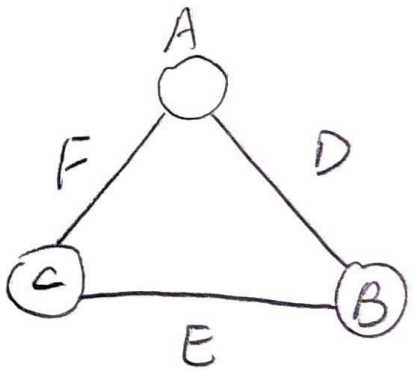
B: 214.97.254.0/25 (8位128, 32-8+1=25).

C: 214.97.254.128/25

D: 214.97.254.0/30 (2个接口.)

E: 214.97.254.~~0/3~~ 2/31

F: 214.97.254.4/30.



b.

A 11010110 01100000 11111111

D 11010110 01100000 11111110 00000000

F 11010110 01100000 11111110 00000000

D 11010110 01100000 11111111 00000000

B 11010110 01100000 11111110 00000000

E 11010110 01100000 11111110 00000000

F: 11010110 01100000 11111111 00000

E: 11010110 01100000 11111110 00000000

C: 11010110 01100000 1111110 1

P18. a. 主机1: 192.168.1.01

主机2: 192.168.1.2

主机3: 192.168.1.3.

b.

WAN	LAN
24.34.112.235 , X1	192.168.1.1 , 10001
24.34.112.235, X2	192.168.1.1 , 10002
24.34.112.235, Y1	192.168.1.2 , 20001
24.34.112.235, Y2	192.168.1.2 , 20002
24.34.112.235 , Z1	192.168.1.3, 30001
24.34.112.235, Z1	192.168.1.3, 30002