P11

223.1.17.22/25

223.1.17.68/68

223.1.17.1/15

## P13

224.0.0.0 to 224.63.255.255 0

224.64.0.0 to 224.64.255.255 1

224.65.0.0 to 225.127.255.255 2

Otherwise 3

# Forwarding table

224.0	0
224.64	1
224.65	2
other	3

## P18

A )192.168.1 - 192.168.4

В

WAN Side	LAN Side
24.34.112.235, 4000	192.168.1,3345
24.34.112.235,4001	192.168.1,3346
24.34.112.235,4002	192.168.2,3345
24.34.112.235,4003	192.168.2,3346
24.34.112.235,4004	192.168.3,3345
24.34.112.235,4005	192.168.3,3346

#### Р3

Didn't know which one to pick on run 2 so I just picked the first alphabetical of the equal numbers which was u and used the same logic to continue

L(q) is path cost, C(q) is previous node in the path cost

Path	L(t),c(t)	L(u),c(u)	L(v),c(v)	L(w), c(w)	L(y),c(y)	L( z),c(z)
Х	Inf	Inf	3,x	6,x	6,x	8,x
XV	7,v	6,v	3,x	6,x	6,x	8,x
xvu	7,v	6,v	3,x	6,x	6,x	8,x
xvuw	7,v	6,v	3,x	6,x	6,x	8,x
xvuwy	7,v	6,v	3,x	6,x	6,x	8,x
xvuwyt	7,v	6,v	3,x	6,x	6,x	8,x
xvuwytz	7,v	6,v	3,x	6,x	6,x	8,x

#### **P5**

Node	U	V	Х	Υ	Z
Distance from Z	6	5	2	5	0

### P11

Α

Router Z tells through x is inf and through y is 5

Router w tells through y is inf and through z is 5

Router y tells through both w and z the length is 5

В

Yes there would be still be a problem even with poisoned reverse.

С

Remove the link

#### P14

A eBPG

B iBPG

C eBPG

D iBGP

 $1010101010\ 0000/10011 = 10912/19 = 574$  with a remainder of 6 so R = 0110

Errors would be would be detected if the R is not the correct R that is expected