2016/20

0.0.0.0 +++++++++++++++ gap gap gap gap gap gap gap gap gap gap gap gap gap gap gap gap +++++++++++++ 255.255.255.255

For each new **range** of left-right

- if range.left >= gap.left && range.right <= gap.right then

gap.right = range.left

add new gap [ gap.right, range.left ]

0.0.0.0 +++++++++++++++ gap +++++++++++++ 255.255.255.255

0.0.0.0 10.0.0.0----------------------------50.0.0.0 255.255.255.255

- if range.left >= gap.left && range.right >= gap.right

gap.right = range.right

0.0.0.0 10.0.0.0----------------------------50.0.0.0 255.255.255.255

5.100.0.0--------------------------10.2.3.4

- if range.left >= gap.left && range.right >= gap.right

gap.right = range.right

0.0.0.0 10.0.0.0----------------------------50.0.0.0 255.255.255.255

7.8.9.10------------------------------------------------------75.76.77.78

- if range.left >= gap.left && range.right >= gap.right

gap.right = range.right

10.1.2.3--------­10.2.3.4

- if range.left >= gap.left && range.right >= gap.right

gap.right = range.right

gaps: [

[ 0.0.0.0-255.255.255.255 ]

]

# Blacklist 1 : no overlaps

addr: 10.0.0.0-11.0.0.0

gaps: [

[0.0.0.0-9.255.255.255],

[11.1.1.1-255.255.255.255]

]

0.0.0.0 10.0.0.0----------11.0.0.0 255.255.255.255

# Blacklist 2 : existing gap overlaps a gap high

addr: 5.100.100.100-10.2.3.4

gaps: [

[0.0.0.0-5.100.100.100],

[10.2.3.5-11.1.1.0],

[11.1.1.1-255.255.255.255]

]

0.0.0.0 10.0.0.0----------------------------50.0.0.0 255.255.255.255

5.100.0.0--------------------------10.2.3.4

7.8.9.10------------------------------------------------------75.76.77.78

10.1.2.3--------­10.2.3.4

# Blacklist 3 : no overlaps

addr: 12.34.56.78-190.0.0.0

gaps: [

[0.0.0.0-5.100.100.100],

[11.1.1.1-12.34.56.78],

[12.34.56.79-189.255.255.255],

[190.0.0.0-255.255.255.255]

]