Network calculator - Bitmask version

Only use to check your answers please

IP Address:

172	•	21	•	108	•	0
1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 0	•	0 0 0 0 0 0 0 0

Net Mask:

255	•	255	•	254	•	0	OK
1 1 1 1 1 1 1 1	•	1 1 1 1 1 1 1 1	•	1 1 1 1 1 1 1 0	•	0 0 0 0 0 0 0 0	

	1 2 3 4 5 6 7 8		9 10 11 12 13 14 15 16		17 18 19 20 21 22 23 24		25 26 27 28 29 30 31 32
IP Address:	1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 0	•	0 0 0 0 0 0 0 0
Net Mask:	1 1 1 1 1 1 1 1	•	1 1 1 1 1 1 1 1	•	1 1 1 1 1 1 1 0	•	0 0 0 0 0 0 0 0

CIDR: /23

	n n n n n n n n	•	n n n n n n n n	•	n n n n n n n h	•	h h h h h h h h

Network bits

Host bits

Network Address:

1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 0	•	0 0 0 0 0 0 0 0

Network Address:

172	•	21	•	108	•	0

Broadcast Address:

1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 1	•	1 1 1 1 1 1 1 1

Broadcast Address:

172	•	21	•	109	•	255

Host range:

1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 0	•	0 0 0 0 0 0 0 1

From:

172	•	21	•	108	•	1

1 0 1 0 1 1 0 0	•	0 0 0 1 0 1 0 1	•	0 1 1 0 1 1 0 1	•	1 1 1 1 1 1 1 0

To:

172	•	21	•	109	•	254

Max. number of hosts:

$$2^9 - 2 = 510$$
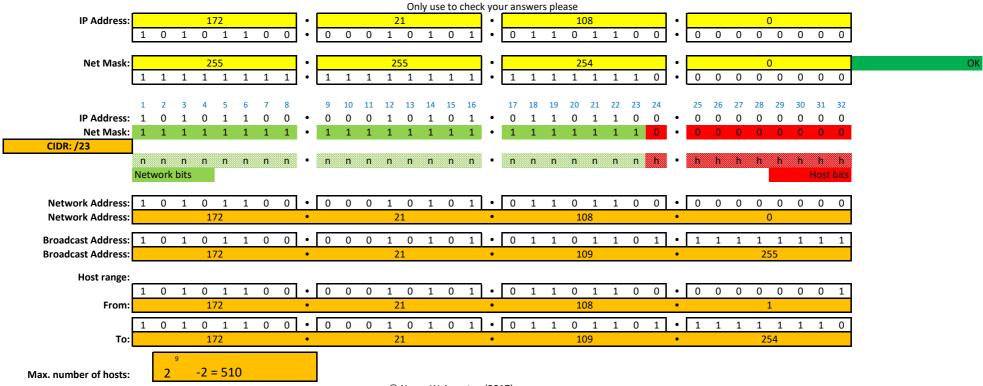
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