Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Logic:

Text, letter

Description automatically generated

See here ipv4 are of 32 bit each of 4 part of 8 bit each.

Diagram, text

Description automatically generated

See each bit can have 0 or 1. hence min in 8 bits can be 0 -255.this will be the range.

A picture containing text

Description automatically generated

This can be the range.

Calendar

Description automatically generated

See range as above and when like above 06 cannot be there but 6 is correct. this also we must check.

A picture containing text, sky, different, several

Description automatically generated

See each .here 3 dots needed to divide for each 4parts.check for each combination and add valid to ans.

A picture containing text, whiteboard, flock, gray

Description automatically generated

But consider 02. this 02 is not valid. Also remember the dot put after the number.

Text, letter

Description automatically generated

This will be my loop for each dot.

A picture containing text, watch, gauge

Description automatically generated

Then here we will check if this is valid ip address or not.

See range of all 4 number is 0 to I ,i+1 to j,j+1 to k,k+1 to n-1.

Text, letter

Description automatically generated

All restriction:

See here first length between 0 and 3 .second is if 0 at start then length if 1 not valid and and third rnage of number between 0 and 255.