Level 2

1.There are N number of bulbs. In 1st round you turn on all the bulbs. In the 2nd round you turn off every second bulb. In the 3rd round you toggle every 3rd bulb. At last toggle the last bulb.

Count number of bulbs turned on.

2. Anagram

3. Remove duplicate letters for a string and display it.

4. Check whether the brackets [({ have proper closing brackets.

Input:{(([)}

Output: False

5. Convert integer to English representation.

Input- 123

Output- one hundred twenty three

Level 3

1.Convert IPv4 to IPv6.

2. Display DNS from IPv4 and subnet mask.

Eg: IPv4 – 138.38.50.67

Subnet mask- 255.255.254.0

Convert both into binary. And perform & operation. Convert the result into decimal.

3. CIDR notation using IPv4 and Subnet mask.

Eg: IPv4 – 138.38.50.67

Subnet mask- 255.255.254.2

Convert 255, 255, 254 of subnet mask into binary and count number of 1's.

If count= 23

Output: 138.38.50.67/23