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## 4. IP Addresses

**Program Name: IP.java**

**Input File: ip.dat**

IP addresses are formed from 32 character data streams of 1s and 0s. The decimal format of an IP address is formed by grouping 8 bits at a time and converting each binary group to a decimal number. Decimal IP addresses are written in the form of four integers separated by periods. An example of an IP address is 10.103.45.230.

### Input

The first line of input will contain a single integer  $n$  that indicates the number of IP addresses to follow. Each of the following  $n$  lines will contain a 32 character binary number.

### Output

For each binary IP address input, you will print the decimal format of the address.

### Example Input File

```
4
11111111111111111111111111111111
00000011100000001111111111111111
11110000101010100101010100000111
10101010101010101010101010101010
```

### Example Output to Screen

```
255.255.255.255
3.128.255.255
240.170.85.7
170.170.170.170
```