1. Write a program that:

- Require user to enter a positive integer number, validate that input to make sure user entered right number.

- Print all perfect number from 0 to inputed number.

Example:

Enter number: -1

Number must be positive.

Enter number: bob

Number must be a positive number.

Enter number: 500

The perfect numbers from 0 to 500:

6 28 496

2. Ask user to input filename:

- If input = '' then filename = DNSList.txt

- Else process user's input filename

- Process through file entered, print out the DNS Server List of each country with numbers of DNS of that country, sort by country’s name.

Example:

Enter file:

DNS Server list:

Country Count

Brazil 1

France 6

India 1

Poland 1

Russian 1

United 5

3. Read the DNSList.txt file then create DNSList.sqlite with information bellow:

CREATE TABLE DNS (IP TEXT, Reliability INTEGER, Description TEXT)

* If Reliability < 50 then Description = ‘Low’
* Else then Description = ‘Normal’

The program prints the DNS Server List, sort in descending order by Reliability as bellow:

DNS server list:

IP Reliability Description

107.191.48.176 99 Normal

169.53.182.120 99 Normal

223.31.121.171 99 Normal

200.148.191.197 92 Normal

79.175.208.28 85 Normal

185.30.211.154 81 Normal

91.121.143.182 80 Normal

195.98.79.117 74 Normal

213.184.225.37 55 Normal

109.228.14.251 52 Normal

212.83.168.230 48 Low

84.96.26.139 33 Low

82.127.173.122 32 Low

46.105.214.115 31 Low