Building an interactive subnet calculator

simple subnet calculator that using an IP address and a subnet mask given by the user will return five parameters.

The network address

The broadcast address

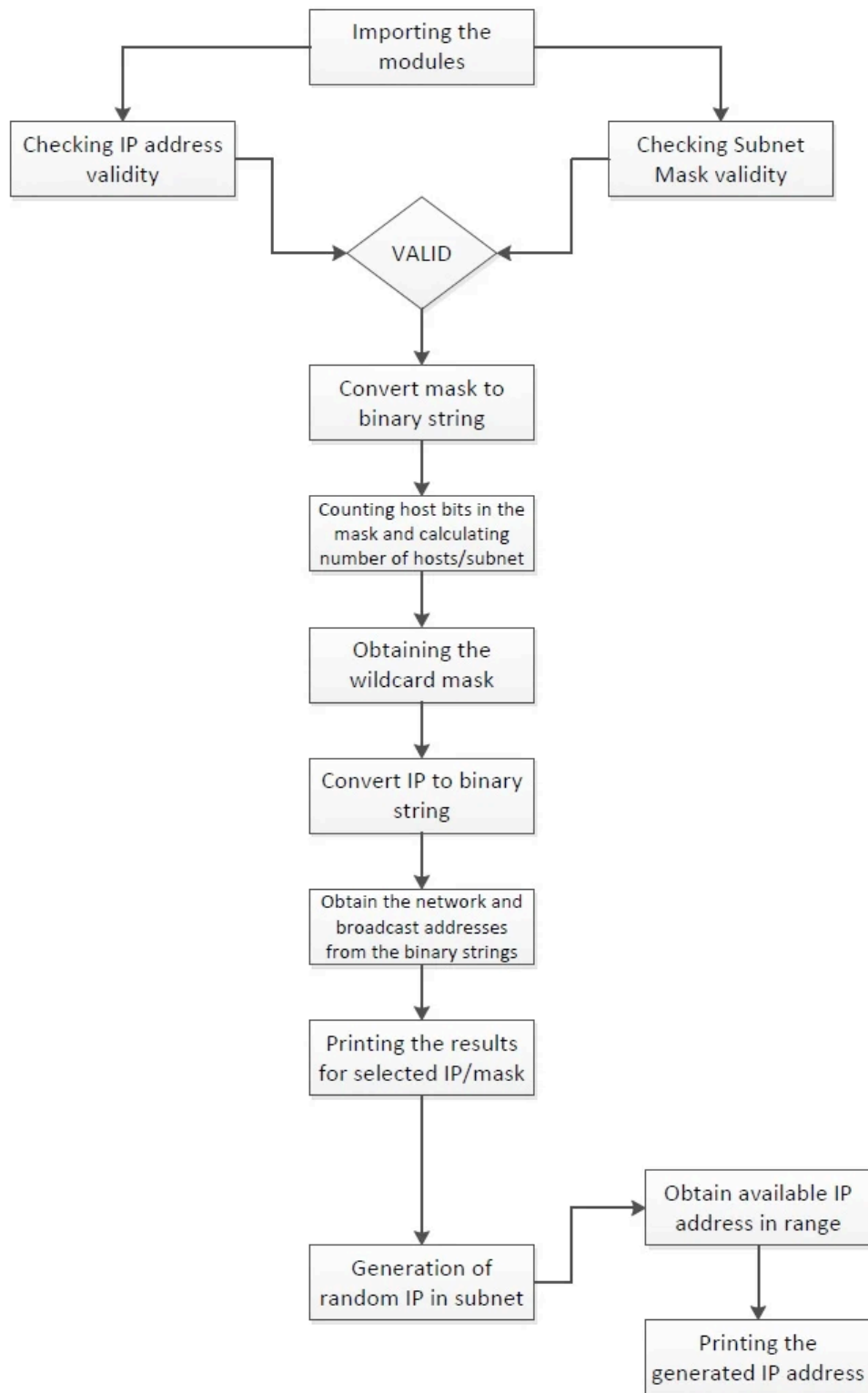The number of valid hosts per subnet

The wildcard mask

The number of mask bits.

Finally the subnet calculator should be able to generate one or more random IP addresses from the subnet in which our initial IP address resides.

Planning the application:

importing the modules that are needed afterthat need to check the validity of both the IP address and the subnet mask that the user enters at the prompt.

Output: by doing Class A

```
/opt/homebrew/bin/python3 /Users/battulamonika/Downloads/Subnet-Calculator-Python-3.py
/Users/battulamonika/.zshrc:source:17: no such file or directory: /opt/ros/dashing/setup.zsh
battulamonika@BATTULAs-MacBook-Pro ~ % /opt/homebrew/bin/python3 /Users/battulamonika/Downloads/Subnet-Calculator-Py
thon-3.py


Enter an IP address: 14.11.12.10
Enter a subnet mask: 255.252.0.0


Network address is: 14.8.0.0
Broadcast address is: 14.11.255.255
Number of valid hosts per subnet: 262142
Wildcard mask: 0.3.255.255
Mask bits: 14


Generate random IP address from this subnet? (y/n)n
Ok, bye!
```