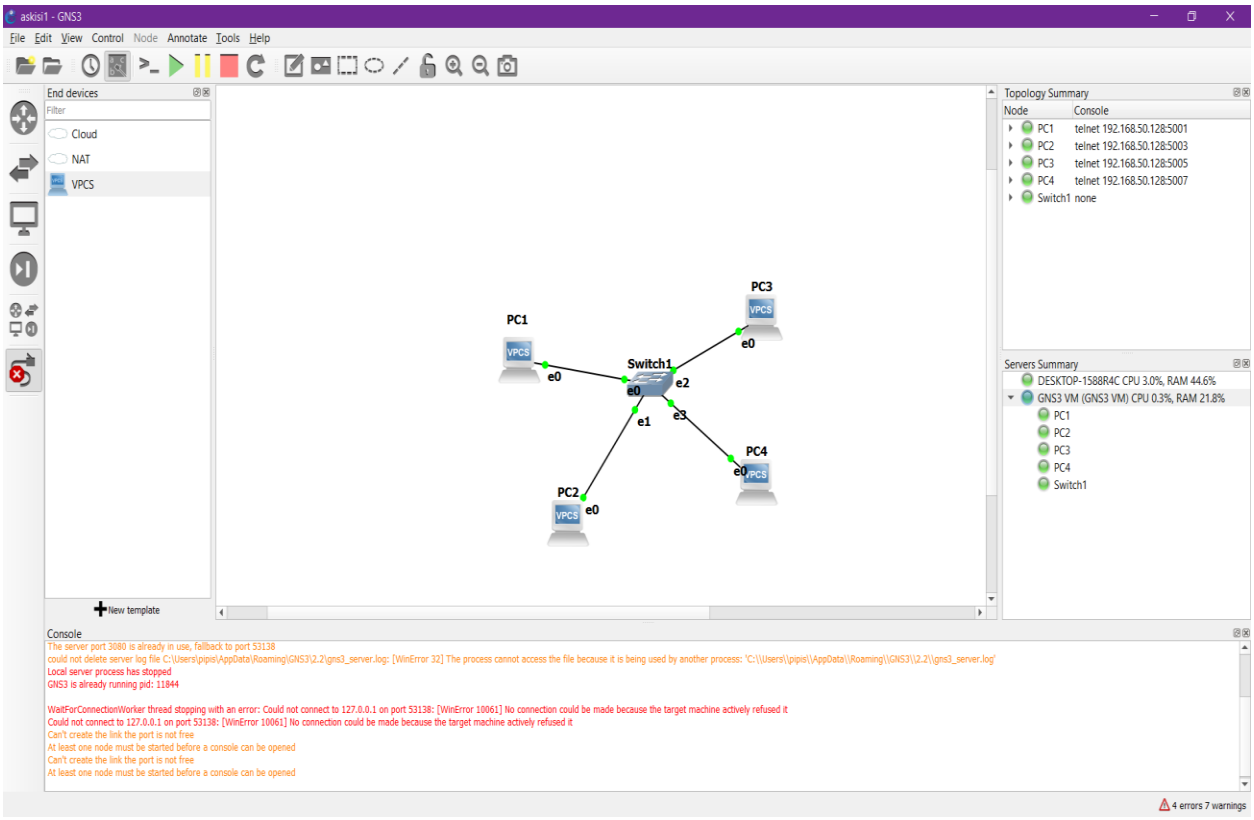
ΑΝΑΦΟΡΑ ΓΙΑ ΤΟ 1ο ΕΡΓΑΣΤΗΡΙΟ ΣΤΑ ΔΙΚΤΥΑ ΥΠΟΛΟΓΙΣΤΩΝ

ΑΜ = 1070263

Ον/μο = ΣΠΥΡΟ ΣΟΥΛΙ

Έτος = 6ο

Υλοποίηση



Ερώτημα 1ο

Εκτέλεση της εντολής help στον PC1

Ερώτημα 2ο

Εκτέλεση εντολής ip στον PC2

Ερώτημα 3ο

Αναθέτουμε τις εξής ip διευθύνσεις σε κάθε PC

PC1 - 192.168.1.1

PC2 - 192.168.1.2

PC3 - 192.168.1.3

PC4 - 192.168.1.4

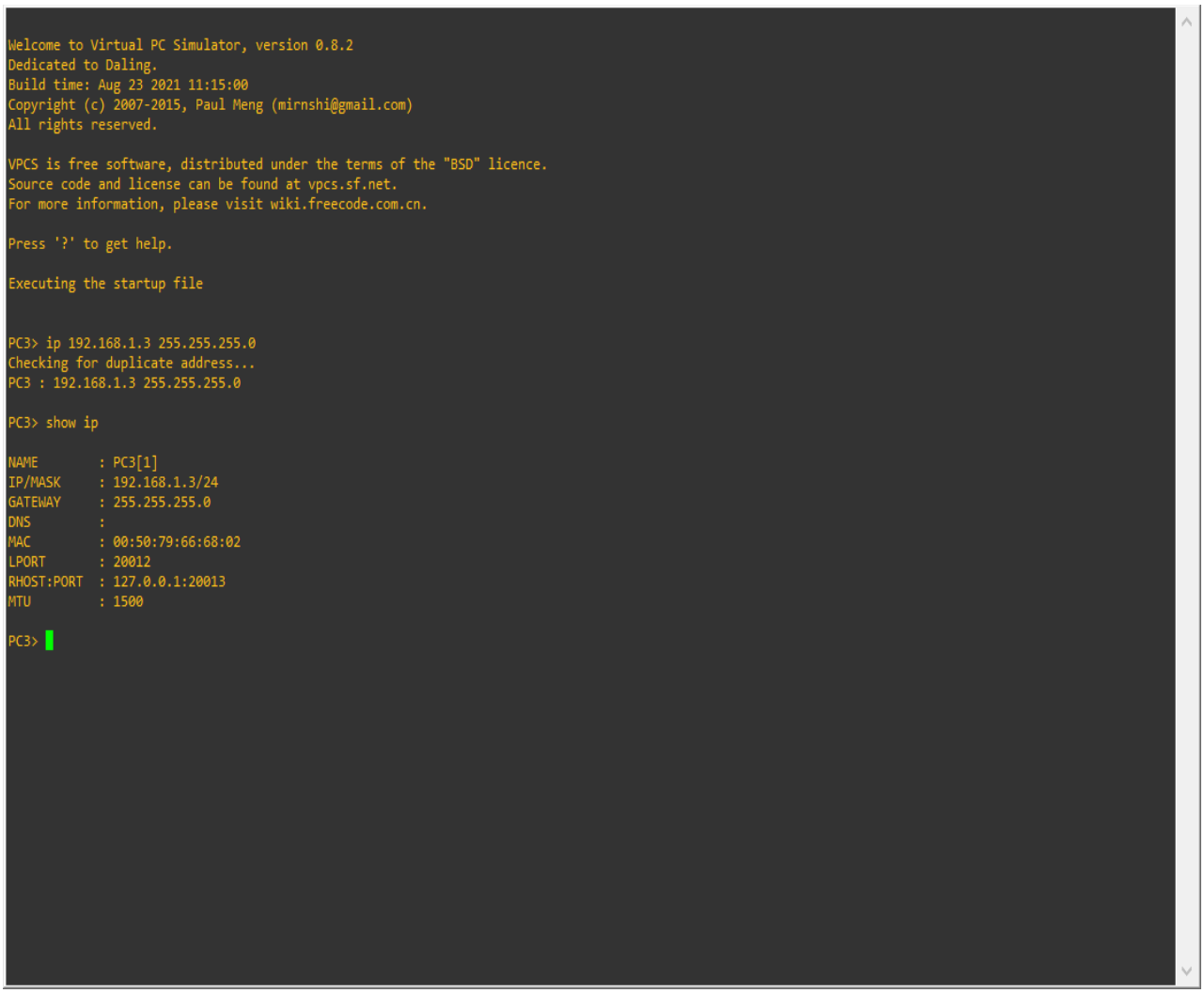
PC1

```
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file


PC1> ?

?                       Print help
arp                       Shortcut for: show arp. Show arp table
clear ARG               Clear IPv4/IPv6, arp/neighbor cache, command history
dhcp [OPTION]           Shortcut for: ip dhcp. Get IPv4 address via DHCP
disconnect              Exit the telnet session (daemon mode)
echo TEXT               Display TEXT in output. See also  set echo ?
help                    Print help
history                 Shortcut for: show history. List the command history
ip ARG ... [OPTION]     Configure the current VPC's IP settings. See ip ?
load [FILENAME]         Load the configuration/script from the file FILENAME
ping HOST [OPTION ...]  Ping HOST with ICMP (default) or TCP/UDP. See ping ?
quit                    Quit program
relay ARG ...           Configure packet relay between UDP ports. See relay ?
rlogin [ip] port        Telnet to port on host at ip (relative to host PC)
save [FILENAME]         Save the configuration to the file FILENAME
set ARG ...             Set VPC name and other options. Try set ?
show [ARG ...]          Print the information of VPCs (default). See show ?
sleep [seconds] [TEXT]  Print TEXT and pause running script for seconds
trace HOST [OPTION ...] Print the path packets take to network HOST
version                 Shortcut for: show version

To get command syntax help, please enter '?' as an argument of the command.

PC1> ip 192.168.1.1 255.255.255.0
Checking for duplicate address...
PC1 : 192.168.1.1 255.255.255.0

PC1> show ip

NAME        : PC1[1]
IP/MASK     : 192.168.1.1/24
GATEWAY     : 255.255.255.0
DNS         :
MAC         : 00:50:79:66:68:00
LPORT       : 20008
RHOST:PORT  : 127.0.0.1:20009
MTU         : 1500

PC1>
```

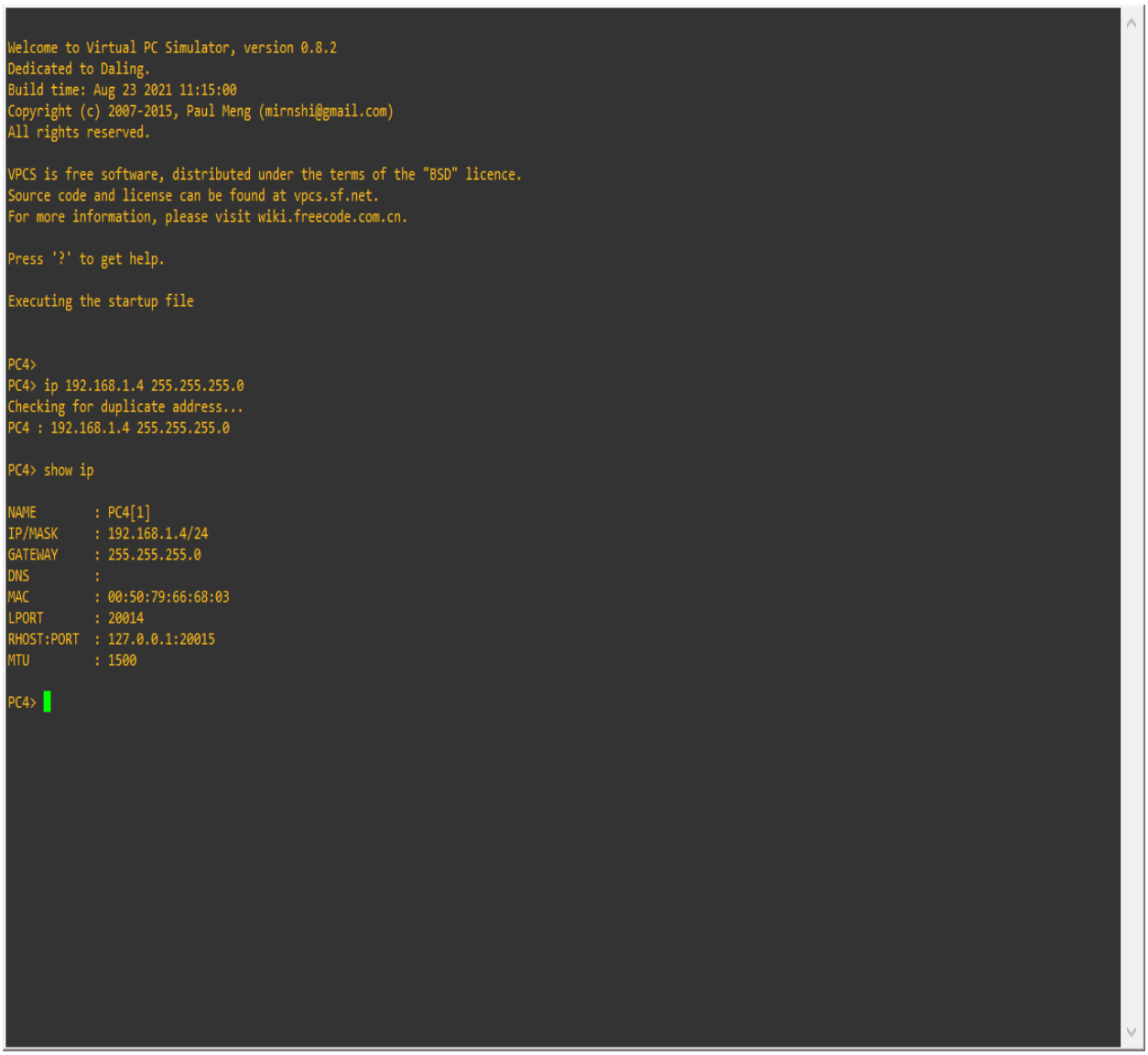
PC2

```
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file


PC2> ip

ip ARG ... [OPTION]
  Configure the current VPC's IP settings
    ARG ...:
    address [mask] [gateway]
    address [gateway] [mask]
                  Set the VPC's ip, default gateway ip and network mask
                  Default IPv4 mask is /24, IPv6 is /64. Example:
                  ip 10.1.1.70/26 10.1.1.65 set the VPC's ip to 10.1.1.70,
                  the gateway to 10.1.1.65, the netmask to 255.255.255.192.
                  In tap mode, the ip of the tapx is the maximum host ID
                  of the subnet. In the example above the tapx ip would be
                  10.1.1.126
                  mask may be written as /26, 26 or 255.255.255.192
    auto          Attempt to obtain IPv6 address, mask and gateway using SLAAC
    dhcp [OPTION] Attempt to obtain IPv4 address, mask, gateway, DNS via DHCP
          -d        Show DHCP packet decode
          -r        Renew DHCP lease
          -x        Release DHCP lease
    dns ip        Set DNS server ip, delete if ip is '0'
    dns6 ipv6     Set DNS server ipv6, delete if ipv6 is '0'
    domain NAME   Set local domain name to NAME

PC2> ip 192.168.1.2 255.255.255.0
Checking for duplicate address...
PC2 : 192.168.1.2 255.255.255.0

PC2> show ip

NAME        : PC2[1]
IP/MASK     : 192.168.1.2/24
GATEWAY     : 255.255.255.0
DNS         :
MAC         : 00:50:79:66:68:01
LPORT       : 20010
RHOST:PORT  : 127.0.0.1:20011
MTU         : 1500

PC2>
```

PC3


Welcome to Virtual PC Simulator, version 0.8.2
Dedicated to Daling.
Build time: Aug 23 2021 11:15:00
Copyright (c) 2007-2015, Paul Meng (mirnshi@gmail.com)
All rights reserved.
VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.
Press '?' to get help.
Executing the startup file
PC3> ip 192.168.1.3 255.255.255.0
Checking for duplicate address...
PC3 : 192.168.1.3 255.255.255.0
PC3> show ip
NAME : PC3[1]
IP/MASK : 192.168.1.3/24
GATEWAY : 255.255.255.0
DNS :
MAC : 00:50:79:66:68:02
LPORT : 20012
RHOST:PORT : 127.0.0.1:20013
MTU : 1500
PC3>

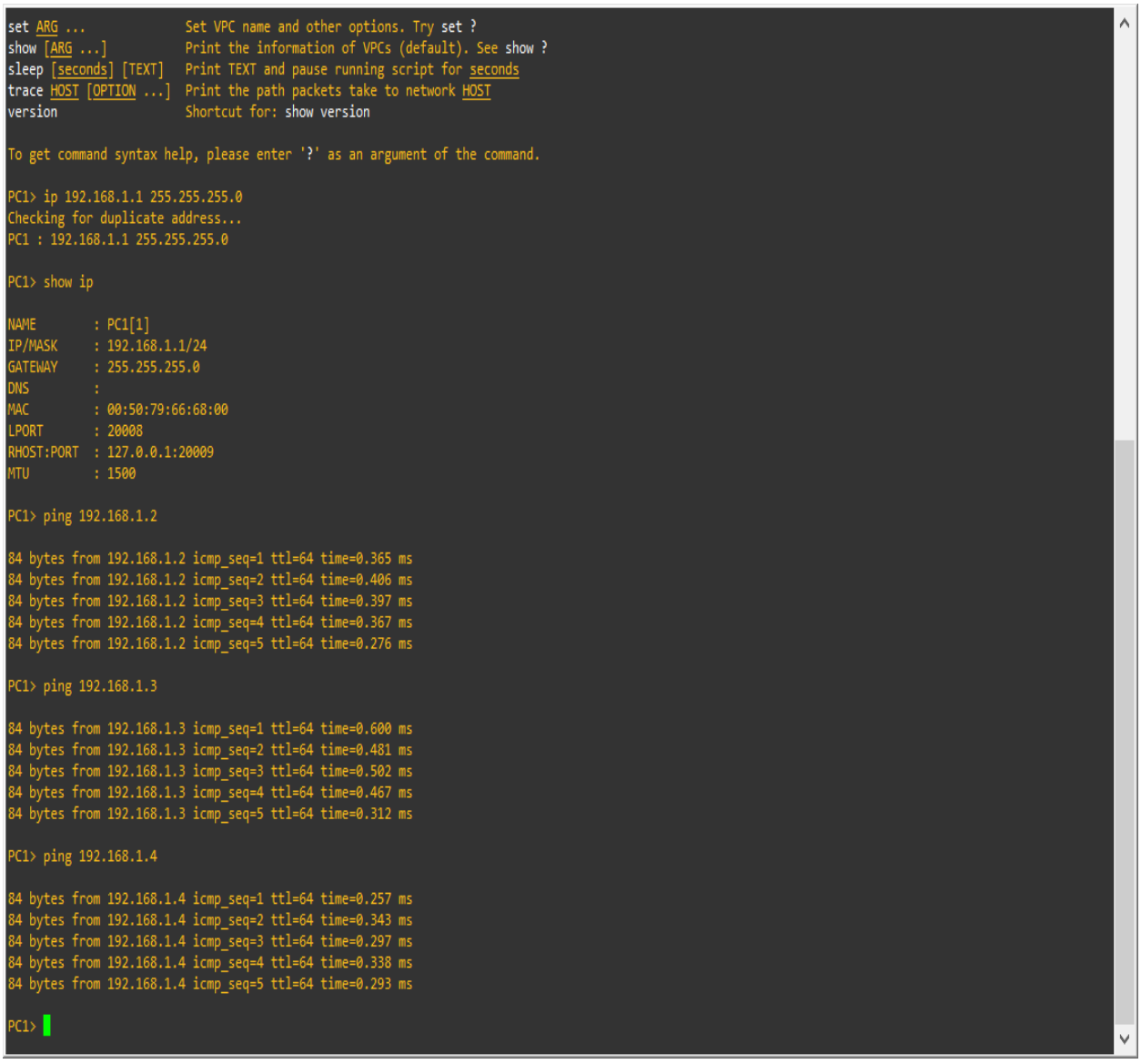
PC4


Welcome to Virtual PC Simulator, version 0.8.2
Dedicated to Daling.
Build time: Aug 23 2021 11:15:00
Copyright (c) 2007-2015, Paul Meng (mirnshi@gmail.com)
All rights reserved.
VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.
Press '?' to get help.
Executing the startup file
PC4>
PC4> ip 192.168.1.4 255.255.255.0
Checking for duplicate address...
PC4 : 192.168.1.4 255.255.255.0
PC4> show ip
NAME : PC4[1]
IP/MASK : 192.168.1.4/24
GATEWAY : 255.255.255.0
DNS :
MAC : 00:50:79:66:68:03
LPORT : 20014
RHOST:PORT : 127.0.0.1:20015
MTU : 1500
PC4>

Ερώτημα 4ο

PC1

Ping με επιτυχία



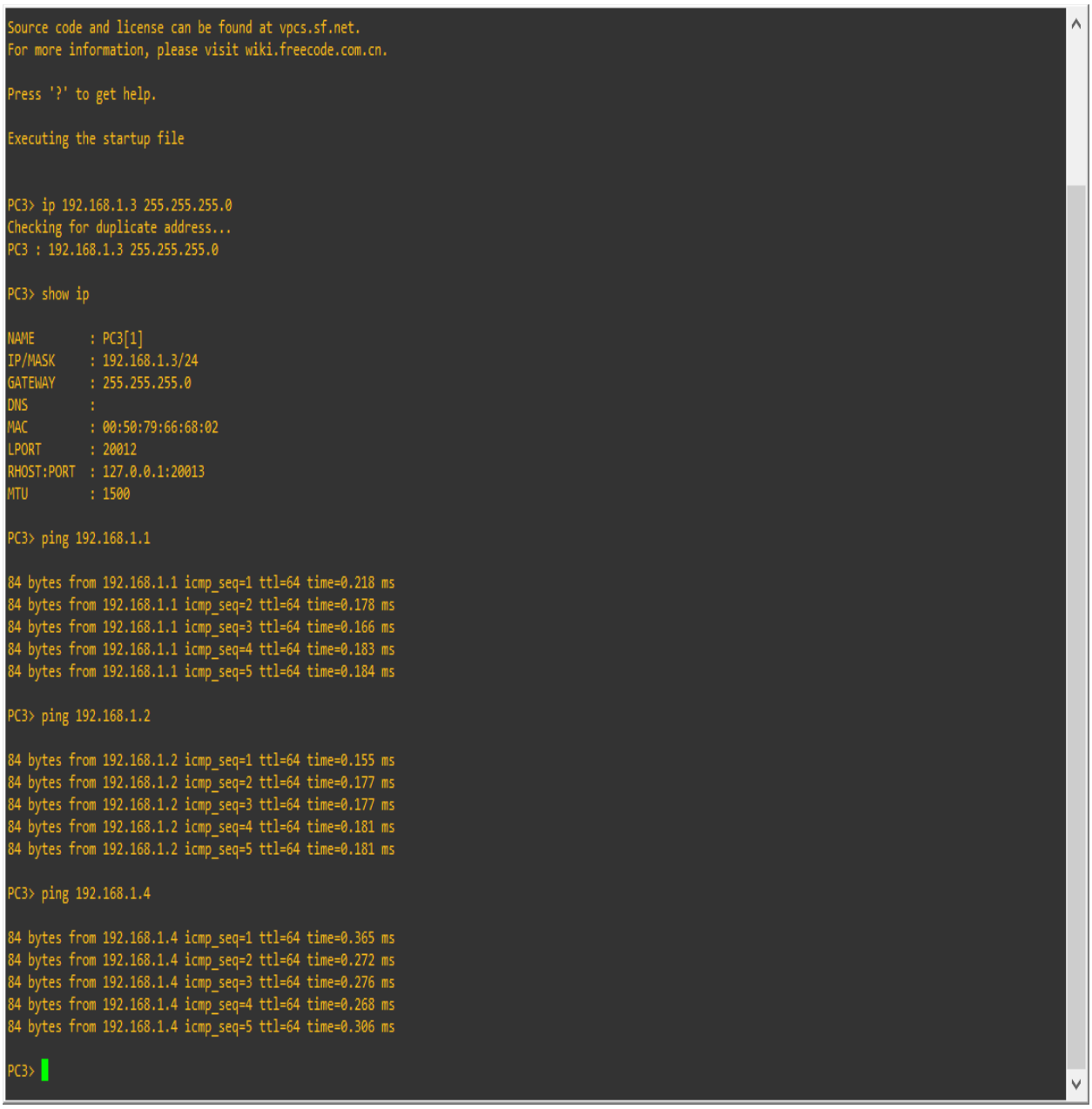
PC2

Ping με επιτυχία

```
   dhcp [OPTION]  Attempt to obtain IPv4 address, mask, gateway, DNS via DHCP
        -d         Show DHCP packet decode
        -r         Renew DHCP lease
        -x         Release DHCP lease
   dns ip         Set DNS server ip, delete if ip is '0'
   dns6 ipv6      Set DNS server ipv6, delete if ipv6 is '0'
   domain NAME    Set local domain name to NAME

PC2> ip 192.168.1.2 255.255.255.0
Checking for duplicate address...
PC2 : 192.168.1.2 255.255.255.0

PC2> show ip

NAME        : PC2[1]
IP/MASK     : 192.168.1.2/24
GATEWAY     : 255.255.255.0
DNS         :
MAC         : 00:50:79:66:68:01
LPORT       : 20010
RHOST:PORT  : 127.0.0.1:20011
MTU         : 1500

PC2> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.184 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.266 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.163 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.180 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.172 ms

PC2> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=0.280 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=0.300 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=0.297 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=0.341 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=0.273 ms

PC2> ping 192.168.1.4

84 bytes from 192.168.1.4 icmp_seq=1 ttl=64 time=0.363 ms
84 bytes from 192.168.1.4 icmp_seq=2 ttl=64 time=0.533 ms
84 bytes from 192.168.1.4 icmp_seq=3 ttl=64 time=0.308 ms
84 bytes from 192.168.1.4 icmp_seq=4 ttl=64 time=0.322 ms
84 bytes from 192.168.1.4 icmp_seq=5 ttl=64 time=0.294 ms

PC2>
```

PC3

Ping με επιτυχία



PC4

Ping με επιτυχία

```
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file


PC4>
PC4> ip 192.168.1.4 255.255.255.0
Checking for duplicate address...
PC4 : 192.168.1.4 255.255.255.0

PC4> show ip

NAME        : PC4[1]
IP/MASK     : 192.168.1.4/24
GATEWAY     : 255.255.255.0
DNS         :
MAC         : 00:50:79:66:68:03
LPORT       : 20014
RHOST:PORT  : 127.0.0.1:20015
MTU         : 1500

PC4> ping 192.168.1.1

84 bytes from 192.168.1.1 icmp_seq=1 ttl=64 time=0.296 ms
84 bytes from 192.168.1.1 icmp_seq=2 ttl=64 time=0.298 ms
84 bytes from 192.168.1.1 icmp_seq=3 ttl=64 time=0.297 ms
84 bytes from 192.168.1.1 icmp_seq=4 ttl=64 time=0.288 ms
84 bytes from 192.168.1.1 icmp_seq=5 ttl=64 time=0.305 ms

PC4> ping 192.168.1.2

84 bytes from 192.168.1.2 icmp_seq=1 ttl=64 time=0.243 ms
84 bytes from 192.168.1.2 icmp_seq=2 ttl=64 time=0.264 ms
84 bytes from 192.168.1.2 icmp_seq=3 ttl=64 time=0.226 ms
84 bytes from 192.168.1.2 icmp_seq=4 ttl=64 time=0.279 ms
84 bytes from 192.168.1.2 icmp_seq=5 ttl=64 time=0.322 ms

PC4> ping 192.168.1.3

84 bytes from 192.168.1.3 icmp_seq=1 ttl=64 time=0.165 ms
84 bytes from 192.168.1.3 icmp_seq=2 ttl=64 time=0.179 ms
84 bytes from 192.168.1.3 icmp_seq=3 ttl=64 time=0.181 ms
84 bytes from 192.168.1.3 icmp_seq=4 ttl=64 time=0.151 ms
84 bytes from 192.168.1.3 icmp_seq=5 ttl=64 time=0.199 ms

PC4>
```

Τέλος κάνουμε save για να αποθηκευτούνε οι ρυθμίσεις μας !

Ευχαριστώ για τον χρόνο σας !