```
ms
ms
8.544 ms 8.553 ms 8.580 ms
^C
--- localhost ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 9202ms
rtt min/avg/max/mdev = 0.021/0.036/0.042/0.005 ms
miguel@miguel-Standard-PC-Q35-ICH9-2009: $
                                                                                                  miguel@miguel-Standar
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address
                                                  Foreign Address
                                                                               State
                                                   0.0.0.0:*
0.0.0.0:*
                    0 localhost:domain
tcp
            0
                                                                               LISTEN
                    0 localhost:ipp
            0
tcp
                                                                               LISTEN
                     0 ip6-localhost:ipp
tcp6
                                                   [::]:*
                                                                               LISTEN
udp
            0
                     0 localhost:domain
                                                   0.0.0.0:*
                     0 miguel-Standard-:bootpc fedora:bootps
udp
            0
                                                                                ESTABLISHED
                                                   0.0.0.0:*
            0
                    0 0.0.0.0:631
udp
            0
                    0 0.0.0.0:mdns
                                                   0.0.0.0:*
abu
                     0 0.0.0.0:34530
udp
            0
                                                   0.0.0.0:*
                    0 [::]:mdns
0 [::]:56750
0 [::]:ipv6-icmp
ифр6
            0
                                                   [::]:*
                                                   [::]:*
[::]:*
udp6
            0
            0
                                                                                7
гамб
Active UNIX domain sockets (servers and established)
                                          State
Proto RefCnt Flags
                             Туре
                                                          I-Node
                                                                     Path
              [ ACC
unix 2
                             STREAM
                                          LISTENING
                                                           780
                                                                     /run/dbus/system_bus_socket
                             STREAM
                                          LISTENING
                                                                     /run/snapd.socket
                                                          782
               [ ACC
                                                                     /run/snapd-snap.socket
unix
                             STREAM
                                          LISTENING
                                                          784
unix
                             STREAM
                                          LISTENING
                                                          786
                                                                     /run/spice-vdagentd/spice-vdagent-sock
                                                                     /run/uuidd/request
unix
                 ACC ]
                             STREAM
                                          LISTENING
                                                          788
unix
                             SEQPACKET
                                         CONNECTED
                                                          49147
                                                                     @0d551
unix
      2
                 ACC ]
                             STREAM
                                          LISTENING
                                                          23100
                                                                     @/tmp/.X11-unix/X0
unix
                             DGRAM
                                          CONNECTED
                                                          19482
                                                                     /run/systemd/notify
                                                                     @/tmp/.X11-unix/X1
unix
                 ACC ]
                             STREAM
                                          LISTENING
                                                          23102
      2
                                                                     /tmp/.ICE-unix/905
unix
      2
                 ACC ]
                             STREAM
                                          LISTENING
                                                          22438
                                                                     ,
/run/systemd/journal/syslog
/run/systemd/fsck.progress
                                                          19498
unix
                             DGRAM
unix
                 ACC ]
                             STREAM
                                          LISTENING
                                                          19500
                                                                     /run/user/1000/systemd/notify
unix
                             DGRAM
                                                          22862
                                                                     /run/user/1000/systemd/private
unix
                 ACC ]
                             STREAM
                                          LISTENING
                                                          22865
      2
      19
                                                                     /run/systemd/journal/dev-log
unix
                             DGRAM
                                          CONNECTED
                                                          19507
                             STREAM
                 ACC ]
                                                                     /run/user/1000/bus
unix
                                          LISTENING
                                                          22871
                                                                     /run/systemd/journal/socket
/run/systemd/journal/stdout
unix
      9
                             DGRAM
                                          CONNECTED
                                                          19509
                 ACC ]
                             STREAM
                                                          19511
unix
                                          LISTENING
unix
                 ACC
                             SEOPACKET
                                         LISTENING
                                                          19513
                                                                     /run/udev/control
                                                                     /run/user/1000/gnupg/S.dirmngr
/run/user/1000/gnupg/S.gpg-agent.browser
unix
                 ACC
                             STREAM
                                                          22873
                                          LISTENING
                             STREAM
                                                          22875
unix
      2
                 ACC
                                          LISTENING
unix
                 ACC
                             STREAM
                                          LISTENING
                                                          20926
                                                                     @/tmp/dbus-EkUQwNf1
       2
                 ACC
                             STREAM
                                          LISTENING
                                                          22877
                                                                     /run/user/1000/gnupg/S.gpg-agent.extra
unix
                                                                     /run/user/1000/gnupg/S.gpg-agent.ssh
unix
                 ACC
                             STREAM
                                          LISTENING
                                                          22879
                                                                     /run/user/1000/gnupg/S.gpg-agent
/run/user/1000/pipewire-0
unix
      2
                 ACC
                             STREAM
                                          LISTENING
                                                          22881
      2
                             STREAM
                                          LISTENING
unix
                 ACC
                                                          22883
                                                                     /run/user/1000/pk-debconf-socket
/run/user/1000/pulse/native
/run/user/1000/snapd-session-agent.socket
                 ACC
unix
                             STREAM
                                          LISTENING
                                                          22885
unix
                 ACC
                             STREAM
                                          LISTENING
                                                           22887
unix
                 ACC
                             STREAM
                                          LISTENING
                                                          22889
                                                                     @/tmp/.ICE-unix/905
/run/user/1000/keyring/control
unix
      2
                 ACC
                             STREAM
                                          LISTENING
                                                          22437
                                                          20991
unix
                 ACC
                             STREAM
                                          LISTENING
                                                                     /run/user/1000/keyring/pkcs11
/run/user/1000/keyring/ssh
unix
                 ACC
                             STREAM
                                          LISTENING
                                                          18257
unix
       2
                 ACC
                             STREAM
                                          LISTENING
                                                          18258
                                                                     @/home/miguel/.cache/ibus/dbus-7NuHblkF
/run/user/1000/at-spi/bus
                 ACC
                             STREAM
                                          LISTENING
                                                          23859
unix
unix
      2
                 ACC
                             STREAM
                                          LISTENING
                                                          23662
unix
                             SEOPACKET
                                          CONNECTED
                                                          49146
                                                                     @d71aa
                 ACC ]
      2
                             STREAM
                                                                     /run/user/1000/wayland-0
unix
                                          LISTENING
                                                          23104
      2
               [ ACC ]
unix
                             STREAM
                                          LISTENING
                                                          18020
                                                                     /run/irqbalance/irqbalance587.sock
       2
                             STREAM
                                          LISTENING
                                                          23101
                                                                     /tmp/.X11-unix/X0
unix
```

```
miguel@miguel-Standard-PC-Q35-ICH9-2009: ~/lab5
miguel@miguel-Standard-PC-Q35-ICH9-2009: ~ cd lab5
miguel@miguel-Standard-PC-Q35-ICH9-2009: ~/lab5$ ./alloc
What's your name?
Miguel
Where do you live?
Ligma
Your name is Miguel, and you live in Ligma.
miguel@miguel-Standard-PC-Q35-ICH9-2009: ~/lab5$
```

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    // Pointers to the name and address
    char* name;
    char* addr;
    // Allocate the memory
    name = (char*)malloc(50 * sizeof(char));
    addr = (char*)malloc(500 * sizeof(char));
    if (name == NULL || addr == NULL) {
        printf("Error: Memory allocation failed\n");
        return 1;
    }
    // Get the name
    printf("What's your name? \n");
    scanf("%s", name);
    // Get the address
    printf("Where do you live? \n");
    scanf("%s", addr);
    // Print the name and address
    printf("Your name is %s, and you live in %s.\n", name, addr);
    // Free the pointers to the name and address
    free(name);
    free(addr);
}
```

This code first allocates memory for the name and address. It allocates 50 chars for the name and 500 chars for the address. After that, the program asks for the user's input for the name and address. Once it got the name and address, the program will print the name and address in the same line. Finally, the program then frees the name and address pointers.