

Licenciatura en Ingeniería en Ciencias de la Computación

Sistemas y tecnologías web - CC - 3062

Sección: 41

Catedrático: Ingeniero Erick Francisco Marroquín



# **Laboratorio 1:**

## **El internet antes de la web**

[PABLO DANIEL BARILLAS MORENO](#) - Carné No. 22193

*Fecha de entrega: 09 de febrero del 2025*

- (50 puntos) En zork, ¿qué hay al subir las gradas dentro de la casa?
- (5 puntos) Escriban su nombre en ASCII (ascii art, no decimal)
- (20 puntos) ¿Cuál es el output de éste programa de Brainf\*ck
  - ```
+++++++[>+++++>+++++++>+++>+<<<<-]>+>+.+++++..++  
+>+>.<<+++++++>+.+++>----->+>.
```
- (10 puntos) ¿Cómo pide auxilio una vaca paranoica?
  - Deben asegurarse que la vaca sea paranoica
- (10 puntos) ¿Que respuesta les dio la psicoterapeuta a la pregunta "what is life?"
  - Ella da múltiples respuestas, escojan una. Pueden poner su conversación completa con ella si quieren.
- (5 puntos) Coloquen un ejemplo de un fnord
- (5 puntos) ¿Cuál es la ubicación de su ip? ¿Y su ip pública?
- (5 puntos) ¿Donde está ubicado en host bkj386?

- (10 puntos) Traduzcan la siguiente frase a clave morse:
  - ye shall be as gods
- (5 puntos) ¿Cuál es la fase de la luna actual?
- (5 puntos) Generen un código qr (ascii) para la frase:
  - May the command line live forever
- (20 puntos) Copien el titulo, la fecha de publicación y el primer parrafo de dos de los siguientes rfc históricos:
  - 318
  - 675
  - 791
  - 793
  - 819
  - 1034
  - 1855
  - 2324
- (10 puntos) ¿Cuál es el path de tcp entre telehack.com y el host "ecord"?
  - (5 puntos) ¿Pueden dibujar un path en ascii entre esos hosts?
- (5 puntos) ¿Cuanto tiempo lleva encendido el server de telehack.com?
- (10 puntos) Busquen en usenet y escojan algún post interesante
- (20 puntos) En el emulador de apple, corran el software appleteach1 y luego el programa 34, corran todo el test, cuál fue su resultado?
- (5 puntos) ¿Cuál fue el mejor chiste que les contó el sitio?
- (10 puntos) En star wars (ascii) ¿qué caracter se usa para formar el pelo de Leia?

**Links:**

Estos links son para los que quieran aprender más sobre los temas:

<https://www.technipages.com/windows-10-enable-telnet>Enlaces a un sitio externo.

<https://thenewstack.io/the-lost-worlds-of-telnet/>Enlaces a un sitio externo.

<https://flaviocopes.com/rfc/>Enlaces a un sitio externo.

<https://www.ietfjournal.org/tcpip-25th-anniversary/>Enlaces a un sitio externo.

[http://xahlee.info/Netiquette\\_dir/\\_/meow\\_wars.html](http://xahlee.info/Netiquette_dir/_/meow_wars.html)Enlaces a un sitio externo.

## Laboratorio 1 - El internet antes de la web:

Los puntos de esta tarea los conseguirán navegando el sitio "telehack.com" utilizando telnet.

```
usuario123@MSI: ~  
usuario123@MSI:~$ sudo apt update  
[sudo] password for usuario123:  
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8956 B]  
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:6 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [52.0 kB]  
Get:7 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]  
Get:8 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]  
Get:9 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]  
Get:10 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [363 kB]  
Get:11 http://archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]  
Get:12 http://archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]  
Get:13 http://archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]  
Get:14 http://archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [17.6 kB]  
Get:15 http://archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]  
Get:16 http://archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [216 B]  
Fetched 973 kB in 2s (431 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
35 packages can be upgraded. Run 'apt list --upgradable' to see them.  
usuario123@MSI:~$
```

```
usuario123@MSI: ~  
usuario123@MSI:~$ sudo apt install telnet -y  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
telnet is already the newest version (0.17+2.5-3ubuntu4).  
0 upgraded, 0 newly installed, 0 to remove and 35 not upgraded.  
usuario123@MSI:~$
```

```

usuario123@MSI: ~
$ telnet telehack.com
Trying 64.13.139.230...
Connected to telehack.com.
Escape character is '^]'.

Connected to TELEHACK port 164

It is 6:04 pm on Thursday, February 6, 2025 in Mountain View, California, USA.
There are 117 local users. There are 26648 hosts on the network.

May the command line live forever.

Command, one of the following:
2048      ?          a2          ac          advent      basic
bf        c8          cal        calc        cat          ching
clear     cowsay      ddate      delta      echo        exit
factor    file        fnord      gif         head        help
ipaddr    joke        liff       login       mac          md5
minesweeper morse      netstat    pig         pong        primes
privacy   qr          rain       rainbow     recover     rig
roll      rot13      run        salvo       sleep       sudoku
tail      traceroute units      uptime     usenet     users
uumap     uupath     uuplot     weather    when        zork

More commands available after login. Type HELP for a detailed command list.
Type NEWUSER to create an account. Press control-C to interrupt any command.
ac.

```

## Comandos de ayuda:

```

usuario123@MSI: ~
^C
clear
help
2048
a2 <disk>[file]
advent
aquarium
areacode <areacode>[location]
basic
bf <code>[file]
c8 <row>
cal <year>
calc <exp>
callsign <text>
cat <file>
ching
clear
clock <[font>[font]>]
cowsay <[cow]>[message]
date
ddate
delta
diff <filea> <fileb>
dir
echo <[!cluc]>[title] <text>
eliza
exit
factor <number>
figlet <[font]>[message]
file <filename>
finger <[host]>
fnord
geopip <ipaddr>
gif <search>
head <file>
help
ipaddr
joke <search>
liff <search>
login <user>
mac <mac address>
md5 <[base64] <string>
minesweeper
more <file>
morse <message>
netstat
newuser
notes
sliding tile puzzle game
show command list
apple <[emulator]
play adventure
an aquarium/sea animation in ASCII art
look up an areacode or location
start the basic interpreter
brainf*ck interpreter
launch CHIP-8 emulator
print a calendar
calculator
lookup information for an amateur radio callsign
dump contents of file
The Book of Changes
clear screen
figlet time display, type figlet for a font list
configurable speaking cow
print day and time
convert Gregorian dates to Discordian dates
convert timestamp to delta time string
show the difference between two files
list files
display or transform a line of text
converse with an AI psychotherapist
terminate and return to previous shell or logout
print the prime factors of a number
make large letters out of ordinary text
determine file type
show users on current system or <host>
generate a fnord
show location for an ip address
search for a gif
display first lines of a file
print a list of commands and descriptions
show current ip address
show random joke from unified joke database
look up a definition from the Meaning of Liff
login or create a new telehack account
look up the vendor of a mac address
convert a string to md5
play a game of minesweeper
print contents of file
encode/decode morse code
show connected hosts
create a new telehack account
usenet newsreader

```

- (50 puntos) En zork, ¿qué hay al subir las gradas dentro de la casa?

```
usuario123@MSI: ~
.zork
```

```
usuario123@MSI: ~
.zork
ZORK
Welcome to ZORK.
Release 13 / Serial number 040826 / Inform v6.14 Library 6/7
West of House
This is an open field west of a white house, with a boarded front door.
There is a small mailbox here.
A rubber mat saying 'Welcome to Zork!' lies by the door.

>open mailbox
You open the mailbox, revealing a small leaflet.

>look inside mailbox
In the mailbox is a small leaflet.

>read leaflet
(first taking the small leaflet)
WELCOME TO ZORK

ZORK is a game of adventure, danger, and low cunning. In it you will explore some of the most amazing territory ever seen by mortal man. Hardened adventurers have run screaming from the terrors contained within!

In ZORK the intrepid explorer delves into the forgotten secrets of a lost labyrinth deep in the bowels of the earth, searching for vast treasures long hidden from prying eyes, treasures guarded by fearsome monsters and diabolical traps!

No PDP-10 should be without one!

ZORK was created at the MIT Laboratory for Computer Science, by Tim Anderson, Marc Blank, Bruce Daniels, and Dave Lebling. It was inspired by the ADVENTURE game of Crowther and Mooods, and the long tradition of fantasy and science fiction adventure. ZORK was originally written in MDL (alias MUDDLE). The current version was translated from MDL into Inform by Ethan Dicks -erd@infinit.com.

On-line information may be available using the HELP and INFO commands (most systems).

Direct inquiries, comments, etc. by Net mail to erd@infinit.com.

(c) Copyright 1978,1979 Massachusetts Institute of Technology.
All rights reserved.

>look
West of House
This is an open field west of a white house, with a boarded front door.
There is a small mailbox here.
A rubber mat saying 'Welcome to Zork!' lies by the door.

>look
West of House
This is an open field west of a white house, with a boarded front door.
There is a small mailbox here.
```

```
usuario123@MSI: ~
>open door
The door cannot be opened.

>go north
North of House
You are facing the north side of a white house. There is no door here, and all the windows are barred.

>go east
Behind House
You are behind the white house. In one corner of the house there is a small window which is slightly ajar.

>open window
With great effort, you open the window far enough to allow entry.

>go in
What do you want to go in?

>go through window
What should I do with window?

>enter window
Kitchen
You are in the kitchen of the white house. A table seems to have been used recently for the preparation of food. A passage leads to the west and a dark staircase can be seen leading upward. To the east is a small window which is open.
On the table is an elongated brown sack, smelling of hot peppers.
A bottle is sitting on the table.
The glass bottle contains:
A quantity of water

>examine sack
I see nothing special about the brown sack.

>open sack
You open the brown sack, revealing a clove of garlic and a lunch.

>take sack
Taken.

>go west
Living Room
You are in the living room. There is a door to the east, a wooden door with strange gothic lettering to the west, which appears to be nailed shut, and a large oriental rug in the center of the room.
There is a trophy case here.
A battery-powered brass lantern is on the trophy case.
There is an issue of US NEWS & DUNGEON REPORT dated 08/26/04 here.
On hooks above the mantelpiece hangs an elvish sword of great antiquity.
```

```
usuario123@MSR:~$
On hooks above the mantelpiece hangs an elvish sword of great antiquity.

>examine trophy case
I see nothing special about the trophy case.

>take lantern
Taken.

>take sword
Taken.

>go east
Kitchen
A bottle is sitting on the table.
The glass bottle contains:
A quantity of water

>take bottle
Taken.

>turn on lantern
The lamp is now on.

>go up
Attic
This is the attic. The only exit is stairs that lead down.
There is a square brick here which feels like clay.
A large coil of rope is lying in the corner.
On a table is a nasty-looking knife.
```

**Al subir las gradas dentro de la casa en Zork, se llega al ático (Attic). La descripción del ático es la siguiente:**

Attic

This is the attic. The only exit is stairs that lead down.

There is a square brick here which feels like clay.

A large coil of rope is lying in the corner.

On a table is a nasty-looking knife.

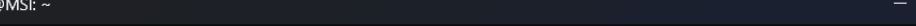
Por lo tanto, la respuesta es:

**En el ático hay:**

- Un **ladrillo de arcilla** (*square brick*).
- Una **gran cuerda enrollada** (*large coil of rope*).
- Un **cuchillo peligroso** sobre una mesa (*nasty-looking knife*).



- (5 puntos) Escriban su nombre en ASCII (ascii art, no decimal)



```

usuario123@MSI: ~
figlet /slant Daniel

```

The screenshot shows a terminal window with the command `figlet /slant Daniel` entered. The output is the word "Daniel" rendered in a slanted, outlined font style.

- (20 puntos) ¿Cuál es el output de éste programa de Brainf\*ck
  - ++++++++[>+++++++>+++++++>++++>+<<<<-]>+.,+++++.,++  
+.,++<<+++++++>.,+++<-----<----->+.,>.

A screenshot of a terminal window titled "xosmo123@M2 -". The prompt is "bf". Below it, instructions say "Enter line(s) of Brainfuck code. Press control-D to execute." A long line of Brainfuck code follows, consisting of many '+' signs, '<<<' and '>>>' sequences, and some '-' signs. After pressing Ctrl-D, the output "Hello World!" is displayed on the next line.

- (10 puntos) ¿Cómo pide auxilio una vaca paranoica?
  - Deben asegurarse de que la vaca sea paranoica

```

user@123@M3: -
.cowsay /paranoid "Help!"
< "Help!" >
-----
      ^ ^
      (gg) \
      (C)  \
      ||   \
      ||---w \
      ||     \|
.cowsay /borg "You will be assimilated."
< "You will be assimilated." >
-----
      ^ ^
      (==) \
      (C)  \
      ||   \
      ||---w \
      ||     \|
.cowsay /dead "X_X"
< "X_X" >
-----
      ^ ^
      (xx) \
      (C)  \
      ||   \
      ||---w \
      ||     \|
.cowsay /greedy "I want more!"
< "I want more!" >
-----
      ^ ^
      ($$) \
      (C)  \
      ||   \
      ||---w \
      ||     \|
.cowsay /stoned "Duuuude..."
< "Duuuude..." >
-----
      ^ ^
      (==) \
      (C)  \
      ||   \
      ||---w \
      ||     \|

```

- (10 puntos) ¿Que respuesta les dio la psicoterapeuta a la pregunta "what is life?"
  - Ella da múltiples respuestas, escojan una. Pueden poner su conversación completa con ella si quieren.

```
usuario123@MSR -  
-eliza  
HELLO, I AM ELIZA.  
what is life?  
WHAT ANSWER WOULD PLEASE YOU MOST?  
Something that makes me understand life better.  
PERHAPS YOU DONT FEEL VERY TALKATIVE TODAY?  
I am talkative, but I want to understand what life means.  
DO YOU REALLY? IS THAT A COMMON PREFERENCE?
```

- (5 puntos) Coloquen un ejemplo de un fnord

```
usuario123@MSR -  
-fnord  
Captain Nemo flees from Wall Street for the illegal wheel.
```

- (5 puntos) ¿Cuál es la ubicación de su ip? ¿Y su ip pública?

```
usuario123@MSR: ~  
$ ./ipaddr  
190.106.222.37  
Guatemala, Guatemala  
$ ./geoip 190.106.222.37  
190.106.222.37  
Guatemala, Guatemala  
Autonomous System AS52362 Servicios Innovadores de Comunicacion y Entretenimiento, S.A.  
Continent North America  
Country Guatemala  
Subdivision Guatemala  
City Guatemala City  
Postal Code 01012  
Time Zone America/Guatemala (UTC-06:00)  
Latitude, Longitude 14.6343, -90.5155 (+/- 10 km)
```

✓ **IP pública:** 190.106.222.37.

✓ **Ubicación:**

190.106.222.37

Guatemala, Guatemala

Autonomous System AS52362 Servicios Innovadores de Comunicacion y Entretenimiento, S.A.

Continent North America

Country Guatemala

Subdivision Guatemala

City Guatemala City

Postal Code 01012

Time Zone America/Guatemala (UTC-06:00)

Latitude, Longitude 14.6343, -90.5155 (+/- 10 km)

- (5 puntos) ¿Donde está ubicado en host bkj386?

```

esquero122@MDL:~$ finger @bkj386
[bkj386]
Anton Anton Aylward pts/2 3h Jan 30 21:28 (53.8.182.23)
Brian Brian Jenkins pts/1 5h Feb 02 00:23 (183.3.79.35)
werdp Marek Pawlowski pts/4 1d Feb 01 03:50 (72.12.105.8)
dgrim Dgrim pts/5 2h Feb 06 19:16 moore
  
```

```

esquero122@MDL:~$ traceroute bkj386
traceroute to bkj386, 10 hops max, 40 byte packets
 1  telehack  19.370 ms  26.532 ms  20.394 ms
 2  oracle    33.097 ms  31.901 ms  25.253 ms
 3  pyramid   44.847 ms  39.198 ms  66.154 ms
 4  ulzoo     62.364 ms  43.534 ms  54.430 ms
 5  generic   81.689 ms  77.116 ms  73.119 ms
 6  bkj386    68.615 ms  120.470 ms  69.890 ms
  
```

### Ubicación del host bkj386:

*El host bkj386 tiene varios usuarios conectados desde distintas direcciones IP. Un usuario (dgrim) está conectado desde moore, lo que sugiere que bkj386 está en la misma red que moore en telehack.com. No se proporciona una ubicación geográfica exacta.*

- (10 puntos) Traduzcan la siguiente frase a clave morse:
  - ye shall be as gods

[illegible]

- (5 puntos) ¿Cuál es la fase de la luna actual?

[illegible]

- (5 puntos) Generen un código qr (ascii) para la frase:
  - May the command line live forever

[illegible]

- (20 puntos) Copien el título, la fecha de publicación y el primer párrafo de dos de los siguientes rfc históricos:
  - 318
  - 675
  - 791
  - 793
  - 819
  - 1034
  - 1855
  - 2324

**.rfc 318**

Network Working Group

Jon Postel

Request for Comments: 318

UCLA-NMC

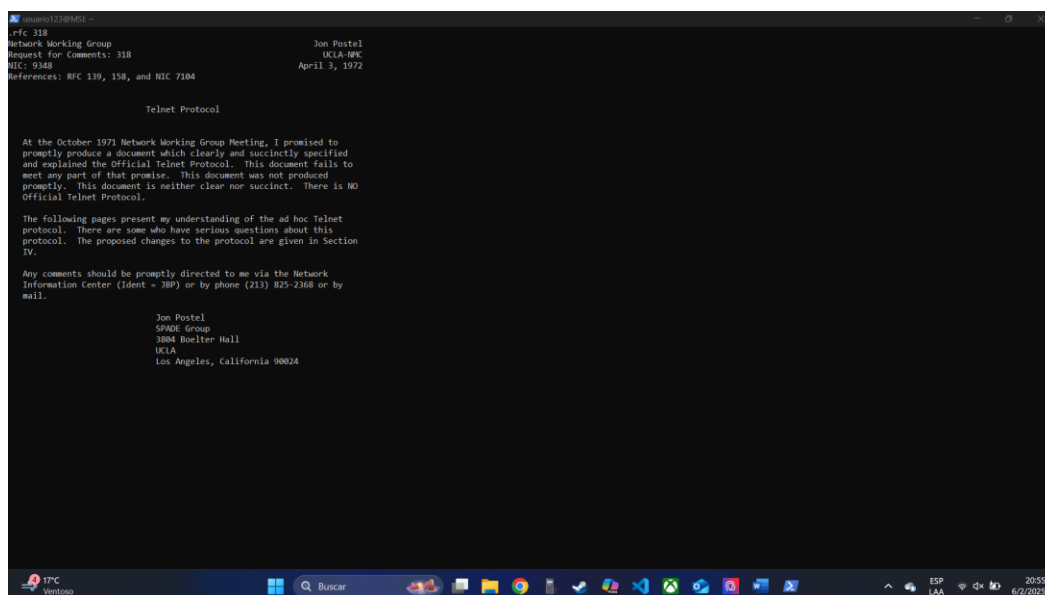
NIC: 9348

April 3, 1972

References: RFC 139, 158, and NIC 7104

**Telnet Protocol**

At the October 1971 Network Working Group Meeting, I promised to promptly produce a document which clearly and succinctly specified and explained the Official Telnet Protocol. This document fails to meet any part of that promise. This document was not produced promptly. This document is neither clear nor succinct. There is NO Official Telnet Protocol.



**.rfc 675**

Network Working Group

Vinton Cerf

Request for Comments: 675

Yogen Dalal

NIC: 2

Carl Sunshine

INWG: 72

December 1974

**SPECIFICATION OF INTERNET TRANSMISSION CONTROL PROGRAM**

December 1974 Version

**1. INTRODUCTION**

This document describes the functions to be performed by the internetwork Transmission Control Program [TCP] and its interface to programs or users that require its services. Several basic assumptions are made about process to process communication and these are listed here without further justification. The interested reader is referred to [CEKA74, TOML74, BELS74, DALA74, SUNS74] for further discussion.



```
usuario123@MSR: ~
$ ./rfc 675
Network Working Group
Request for Comments: 675
NIC: 2
IEMG: 72

Vinton Cerf
Yogen Dalal
Carl Sunshine
December 1974

SPECIFICATION OF INTERNET TRANSMISSION CONTROL PROGRAM

December 1974 Version

1. INTRODUCTION

This document describes the functions to be performed by the
internetwork Transmission Control Program [TCP] and its interface to
programs or users that require its services. Several basic
assumptions are made about process to process communication and these
are listed here without further justification. The interested reader
is referred to [CEKA74, TOML74, BELS74, DALA74, SUNS74] for further
discussion.

The authors would like to acknowledge the contributions of R.
Tomlinson (three way handshake and Initial Sequence Number
Selection), D. Belsnes, J. Burchfiel, M. Galland, R. Kahn, D. Lloyd,
M. Plummer, and J. Postel all of whose good ideas and counsel have
had a beneficial effect (we hope) on this protocol design. In the
early phases of the design work, R. Metcalfe, A. McKenzie, H.
Zimmerman, G. LeLann, and M. Elie were most helpful in explicating
the various issues to be resolved. Of course, we remain responsible
for the remaining errors and misstatements which no doubt lurk in the
nooks and crannies of the text.

Processes are viewed as the active elements of all HOST computers in
a network. Even terminals and files or other I/O media are viewed as
communicating through the use of processes. Thus, all network
communication is viewed as inter-process communication.

Since a process may need to distinguish among several communication
streams between itself and another process (or processes), we imagine
that each process may have a number of PORTS through which it
communicates with the ports of other processes.

Since port names are selected independently by each operating system,
TCP, or user, they may not be unique. To provide for unique names at
each TCP, we concatenate a NETWORK identifier, and a TCP identifier
with a port name to create a SOCKET name which will be unique
throughout all networks connected together.
```

- (10 puntos) ¿Cuál es el path de tcp entre telehack.com y el host "ecord"?

```
usuario123@MSR: ~
$ traceroute ecord
traceroute to ecord, 10 hops max, 40 byte packets
 1 telehack 18.612 ms 13.287 ms 23.929 ms
 2 tandem 29.423 ms 31.129 ms 27.176 ms
 3 uunet 35.571 ms 55.019 ms 63.889 ms
 4 atina 53.972 ms 71.523 ms 82.311 ms
 5 ecord 84.376 ms 89.022 ms 79.829 ms
```

- (5 puntos) ¿Pueden dibujar un path en ascii entre esos hosts?

```
usuario123@MSR: ~
$ echo "telehack -> tandem -> uunet -> atina -> ecord" | figlet
telehack -> tandem -> uunet -> atina -> ecord | figlet
```

- (5 puntos) ¿Cuánto tiempo lleva encendido el server de telehack.com?

```
usuario123@MSR: ~
$ uptime
up 16d, since 2025-Jan-21 20:31:13

commands: 298605688
connects: 14623552
system starts: 1563
sysgen was 14.9y ago at 2010-Mar-07 22:26:00
```

- (10 puntos) Busquen en usenet y escojan algún post interesante

```

usuario123@MSR: ~
$ usenet
b3d34 Outdoor Musings 3 rec.birds 11-Feb-91 07:30
b3d35 New Print Shop/Imagewriter II... comp.sys.apple2 11-Feb-91 07:30
b3d36 WP 5.1 driver for TRD 7020 comp.periphs.printer 11-Feb-91 07:30
b3d37 SECURITY BUG IN INTERACTIVE UNIX 166 comp.unix.sysv386 11-Feb-91 07:30
b3d38 Vloop and iteration constructs 1 comp.text.tex 11-Feb-91 07:32
b3d39 "AFC" on DEC Pro DECUS article 3 comp.org.decus 11-Feb-91 07:34
b3d3a F*cking Amiga baerps! comp.sys.atari.st 11-Feb-91 07:37
b3d3b relative speeds of file transfer 7 comp.os.msos.misc 11-Feb-91 07:37
b3d3c Bad Sectors on diskettes? 2 comp.sys.mac.misc 11-Feb-91 07:40
b3d3d Alpha 4 comp.sys.ibm.pc.misc 11-Feb-91 07:40
b3d3e Motif Shared Library Licensing 6 comp.windows.x.motif 11-Feb-91 07:45
b3d3f How does AMS figure out B8 types comp.soft-sys.andrew 11-Feb-91 07:46
b3d40 Linked lists 1 comp.sys.mac.program 11-Feb-91 07:48
b3d41 New LP, new CD rec.audio.high-end 11-Feb-91 07:49
b3d42 Timbaktu/Carbon Copy on slow mod comp.sys.mac.com 11-Feb-91 07:49
b3d43 Linn Selekt Records rec.audio.high-end 11-Feb-91 07:49
b3d44 advice needed on building an ana rec.audio.high-end 11-Feb-91 07:50
b3d45 Memory test program sought. comp.sys.atari.st 11-Feb-91 07:50
b3d46 Requests for XMT and XDITHER comp.mail.muli-medi 11-Feb-91 07:51
b3d47 Space rogue 1 comp.sys.mac.games 11-Feb-91 07:52
b3d48 Iterated Product comp.theory 11-Feb-91 07:53
b3d49 Anyone else seen these FastPath comp.protocols.apple 11-Feb-91 07:56
b3d4a Recommend a Hardware Sequencer f 1 rec.music.makere 11-Feb-91 07:57
b3d4b "Naughty hits" in the game "Blas 2 comp.binaries.ibm.pc 11-Feb-91 08:00
b3d4c dvijep and dvije2 comp.text.tex 11-Feb-91 08:01
b3d4d ci01 factorized by mpqs on one c comp.unix.cray 11-Feb-91 08:02
b3d4e XEROX PARC 1 comp.windows.misc 11-Feb-91 08:03
b3d4f Fish disk list 430-440? 1 comp.sys.amiga.misc 11-Feb-91 08:03
b3d50 HyperCard questions comp.sys.mac.hyperca 11-Feb-91 08:05
b3d51 Scanner Hardware/Software 1 comp.sys.amiga.graph 11-Feb-91 08:08
b3d52 Updating 48, how? comp.sys.handhelds 11-Feb-91 08:11
b3d53 remanubering comp.lang.fortran 11-Feb-91 08:12
b3d54 Instructions for getting patches 3 comp.mail.cla 11-Feb-91 08:13
b3d55 disks for DM10000 1 comp.sys.apollo 11-Feb-91 08:14
b3d56 "Reading" an event. comp.sys.transputer 11-Feb-91 08:14
b3d57 pgif question comp.text.tex 11-Feb-91 08:16
b3d58 Phonetic symbols required comp.sys.acorn 11-Feb-91 08:17
b3d59 Problem with WIN/TCP's secure FT 5 comp.protocols.tcp-i 11-Feb-91 08:19
b3d5a Undergraduate Summer Research Op comp.sys.next 11-Feb-91 08:20
b3d5b multiple dialogs as app windows? comp.sys.mac.program 11-Feb-91 08:20
b3d5c Conversion from roff to tex comp.text.tex 11-Feb-91 08:21
b3d5d "Apparently-To:" header and send comp.mail.sendmail 11-Feb-91 08:21
b3d5e Is there a way to boot "/dos" fr comp.unix.sysv386 11-Feb-91 08:22
b3d5f comp.dsp comp.dsp 11-Feb-91 08:27
b3d60 Software for sale: Lattice C++ comp.sys.amiga.marke 11-Feb-91 08:28
b3d61 Solving Schrodinger's 3-D Equati comp.sys.handhelds 11-Feb-91 08:29
b3d62 Software for sale: Pro Page 2.0 comp.sys.amiga.marke 11-Feb-91 08:31
b3d63 Thanks to all for PC-DSP info comp.graphics 11-Feb-91 08:32

```

## Post interesante escogido:

```

usuario123@MSR: ~
$ news b3d61
Path: utzoolutgpusnews-server.csri.toronto.edu/bonnie.concordia.ca/luenet/samsungluc1zaphod.mps.ohio-state.edu/rpilwupsilcc16321ritcshlultb/wlw2286
From: wlw2286@isc.rit.edu (W.L. Lance)
Subject: Solving Schrodinger's 3-D Equations on the 48.
Date: 11 Feb 91 14:29:44 GMT
Newsgroups: comp.sys.handhelds
Organization: Rochester Institute of Technology

The title basically says it all, is there an easy way to solve the 3-D
diff. eq. on the 48?

Thanks in advance,
Lance

--
Lance Ware Mac and IBM Reseller
Try here first:lance@spud.img.rit.edu | Then here:wlw2286@ultb.rit.isc.edu
Last Resort:wlw2286@ultb.UUCP-----In support of operation Desert Storm.
!:- XXEND _!:-
$ news

```

- (20 puntos) En el emulador de apple, corran el software appleteach1 y luego el programa 34, corran todo el test, cuál fue su resultado?

```

usuario123@MSR: ~
.a2
The following disks are available:
007      advent      advflash  agentusa  appleteach1
appleach2  aploetrek  bakerst   baronsat  bartender
basic15   bloodquest  calman    calend    castledark  cavernfreit
cloner    cranston    creatven  crowcurse  crystal     dchayes
demonforge  diag       dinosaurs  dragonshk  elfhelml    elkysyl
elkysyl   easped     factory    fcastle    fquest      freitag
gengames  ghosttown  gothmog    greatrace  hanel       hismajesty
holygrail  intedu     jfet       jurytrial  kidnapped    london
madvent   mastertyp  mastertype  mathemagic  matinee     midnight
mindcastle  musys     ntb        oldmaster  oldorf      pizzaprog
practicalc  qynfarr   reuben     robodan    sadam2      sadam2
sandsofmar  secretag  sewers     shellgames  shifysam    sixmicro
skyrace    snackmonst  sorceress  space      spaceil     spelltest
statgame   stats1     stats2     stellar     success     supersys
sysmast    tarturian  tellstar   terrorist  textadv     themist
threemile  tli        traam      transforth  tutstyper   typehype1
ucsd.dsk2  ucsd1     undersouth  wilderless  witchking   yourbody
.zurich
appleteach1
$unrecognized command - type ? for a list
.a2 appleteach1
APPLE ][
  
```

```

usuario123@MSR: ~
appleteach1
$unrecognized command - type ? for a list
.a2 appleteach1
APPLE ][

  1  2  3  4  5  6  7  8  9  10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 
```

```
usuario123@MSR: ~  
do you wish to:  
1. LOAD  
2. RUN  
ISLAND (ENTER 1 OR 2)?2
```

```
usuario123@MSR: ~  
WE HAVE THE FIVE PEOPLE:  
A THE BOAT BUILDER  
B THE RADIO BUILDER  
C THE HELPER/LOVER  
D THE BETROTHED  
E THE COUNSELOR  
PLEASE RANK THESE PEOPLE BY LETTER  
IN ORDER OF YOUR PERSONAL 'ESTEEM'...  
RANK 1?C  
RANK 2?E  
RANK 3?A  
RANK 4?B  
RANK 5?D
```

```
Seleccionar usuario123@MSR: ~  
MY PROFILE RANKING OF YOU INDICATES:  
  
FIRST AND FOREMOST...  
YOU TAKE ADVANTAGE OF ANY OPPORTUNITY  
  
(ANY KEY...)
```

MY PROFILE RANKING OF YOU INDICATES:

FIRST AND FOREMOST...

YOU TAKE ADVANTAGE OF ANY OPPORTUNITY

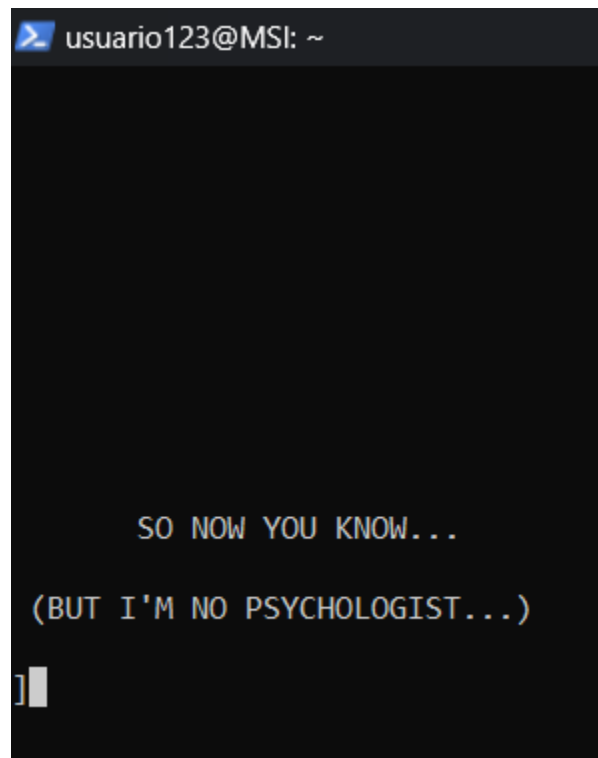
(ANY KEY...)

```
usuario123@MSI: ~  
  
MY PROFILE RANKING OF YOU INDICATES:  
  
NEXT...  
  
YOU ARE A LOVING PERSON  
  
(ANY KEY...)
```

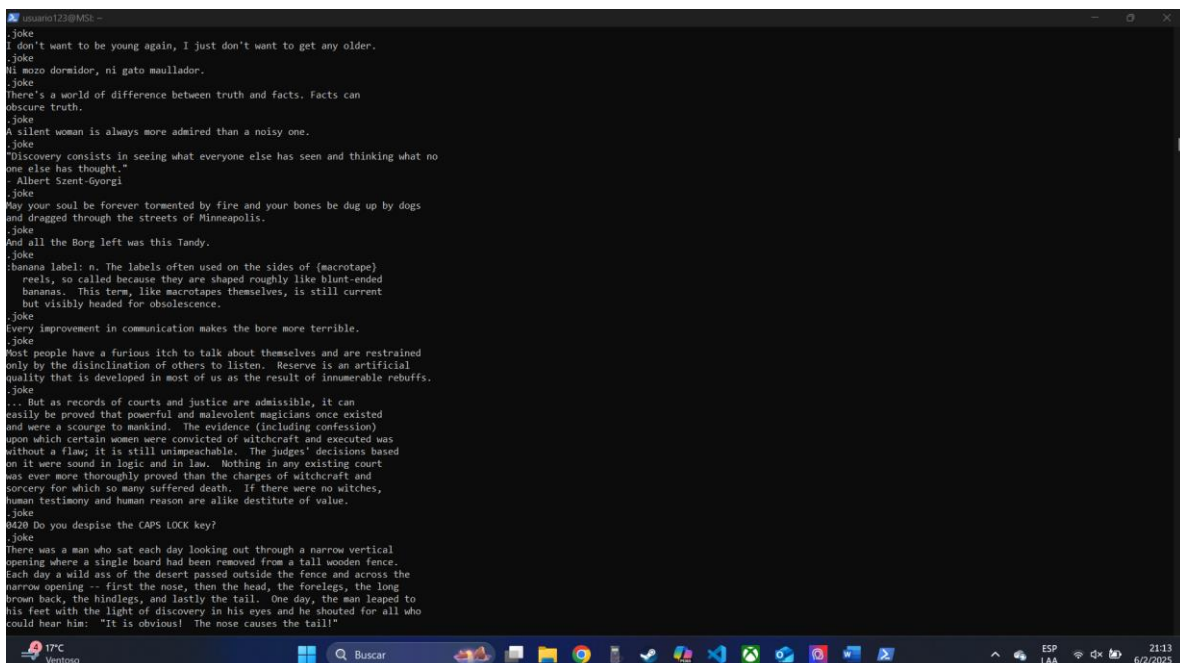
```
usuario123@MSI: ~  
  
MY PROFILE RANKING OF YOU INDICATES:  
  
THIRDLY...  
  
YOU HAVE SEXUAL INCLINATIONS  
  
(ANY KEY...)
```

```
usuario123@MSI: ~  
  
MY PROFILE RANKING OF YOU INDICATES:  
  
NEXT TO LAST...  
  
YOU THINK THINGS OUT INTELLIGENTLY  
  
(ANY KEY...)
```

```
usuario123@MSI: ~  
  
MY PROFILE RANKING OF YOU INDICATES:  
  
LASTLY...  
  
YOU ARE RIGHTEOUS  
  
(ANY KEY...)
```



- (5 puntos) ¿Cuál fue el mejor chiste que les contó el sitio?



R// El mejor chiste que me conto, fue:

.joke

:banana label: n. The labels often used on the sides of {macrotape} reels, so called because they are shaped roughly like blunt-ended bananas. This term, like macrotapes themselves, is still current but visibly headed for obsolescence.

### **Curiosidades:**



```
ununo123@MSR:~$ .joke linux
.joke linux
with the current lunatic US congress proposals on security, crypto and
building big brother into all PC's I'd say allowing non GPL security modules
is positively dangerous to the well being of non US citizens

- Alan Cox on linux-kernel
.joke programming
don't over-comment.
- The Elements of Programming Style (Kernighan & Plaugher)
```

- (10 puntos) En star wars (ascii) ¿qué caracter se usa para formar el pelo de Leia?

Con @ y con:

(O O)

||