



Xi'an Jiaotong-Liverpool University

西交利物浦大学

XI'AN JIAOTONG-LIVERPOOL UNIVERSITY

HAPPY LEC GRADUATION

LINUX MAKES YOUR LIFE EASIER CLUB

LEC Graduation Task Sheet

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SINCERELY & HOPE YOU GUYS ALL PASS

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Chapter 1

Linux Basics

1 Boot Sequence

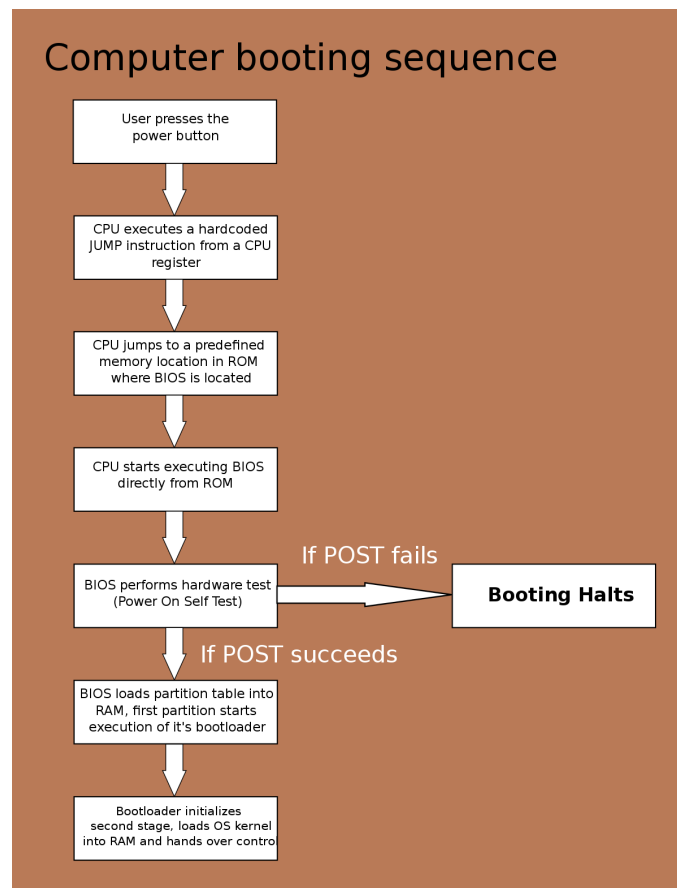


Figure 1.1: Computer boot sequence

1. Briefly describe the process of the computer booting.
2. If there are two systems in a computer, at which step you will select the system to enter.
3. If you are installing a dual system, the bootloader is a problem. You are likely to have problems with the original system being overwritten (the whole system is overwritten or the system exists but there is no entry). How would you deal with this or how many ways do you have, to deal with the bootloader?

2 Basic Commands

1. Which two directories are exist in every directory?
2. How do you jump to the previous level of the directory?
3. How can you jump between two directories without typing the path?
4. What is a "hidden file" or "hidden directory"? How to find them?
5. How can you know the permissions of a directory or file?
6. What should you do when there is a "permission denied"?
7. How to add an execution permission to the current user?
8. What is SHELL? What does it do? (Hint: The Onion Chart)
9. What are the three common types of SHELL?
10. If you are using Bash, what is its configuration file?
11. How to a add environment variable? How can we print it?
12. If type "export NAME=Rey", is this environment variable a permanent variable? How to make it persistent?
13. How to do something automatically every time you open the terminal? For example, let the cow say "hello".
14. How to check your IP address?

3 VPN matters

1. What is "Windows for Clash", is it something only for WindowsOS?
2. If you're a LINUX user, which package you should download? How about MAC user and Jetson Nano user?



Asset Name	Size	Uploaded
Clash.for.Windows-0.20.23-arm64-linux.tar.gz	104 MB	2 weeks ago
Clash.for.Windows-0.20.23-arm64-mac.7z	69.6 MB	2 weeks ago
Clash.for.Windows-0.20.23-arm64-win.7z	74.2 MB	2 weeks ago
Clash.for.Windows-0.20.23-arm64.dmg	103 MB	2 weeks ago
Clash.for.Windows-0.20.23-ia32-win.7z	69.8 MB	2 weeks ago
Clash.for.Windows-0.20.23-mac.7z	70 MB	2 weeks ago
Clash.for.Windows-0.20.23-win.7z	73.5 MB	2 weeks ago
Clash.for.Windows-0.20.23-x64-linux.tar.gz	105 MB	2 weeks ago
Clash.for.Windows-0.20.23.dmg	108 MB	2 weeks ago
Clash.for.Windows.Setup.0.20.23.arm64.exe	81.2 MB	2 weeks ago
Source code (zip)		Feb 21
Source code (tar.gz)		Feb 21

Show all 15 assets

All reactions 111 people reacted

Figure 1.2: Clash for Windows (CFW)

3. If you already started a proxy server via CFW and its port is 7890. How to make your Firefox use it?
4. Again, how to make your terminal use it?
5. If your IP is accessible for others, is it possible for someone else to use your VPN? How can they use it?
6. BIG QUESTION!!!! How to use VPN in your WindowsOS computer (take windows terminal(a software) as an example.

4 Conda matters

1. How to install Conda? How many ways you can do it? LINUX and WindowsOS.
2. Will you use the "base" environment that comes with conda directly? What would be the problem?
3. How to create a new Conda environment with a specific Python version?
4. How to list all existing Conda environments
5. How to enter a specific Conda environment every time you open a terminal?
6. What are the guidelines (recommended practices) for Python package management?

5 VIM matters (YYDS)

1. How exit vim?
2. How to move in vim?
3. How to write something in vim? Enter insert mode?
4. How to jump to the first line of a file? What about jump to the end of a file?
5. How to Delete a word? How to Change a word? What the difference here?
6. How to Delete a whole line?
7. How to make a file empty? (Delete all lines)
8. How to copy something? (Yank)
9. How to select a specific block of a file and copy them?
10. When you do something wrong, what you should do?
11. Oh, god. In fact, you were right, how do you undo what you just did?
12. You'll practice Vim and love it, right?

Chapter 2

Latex Basics

1 Commands

1. How to create **bold** font? (Answer LaTeX commands and its shortcut keys)
2. How to create **underline** font? (Answer LaTeX commands)
3. How to create **italicised** font? (Answer LaTeX commands and its shortcut keys)
4. How do you insert a mathematical formula in LaTeX?
5. How do you create an ordered list in LaTeX?
6. How do you insert an image in LaTeX?
7. How do you set the page margins in LaTeX?
8. How do you create a table with multiple columns in LaTeX?
9. How do you create a new chapter in LaTeX?
10. How do you use citations and create a bibliography list in LaTeX?
11. How do you change the font size and color in LaTeX?
12. How do you insert a footnote in LaTeX?
13. How do you create a multi-level list in LaTeX?

2 Sort the following hierarchical concepts from highest to lowest

section paragraph subsection chapter subsubsection

3 Multiple choice

1. You are to write a DTSxxxTC coursework, which of the following editor is your top priority?
A. WPS Word B. Latex C. Memorandum D. .txt

-
2. To add a mathematical formula in your DTSxxxTC coursework, which LaTeX command should you use?
A. `\formula{...}` B. `$....$` C. `\math{...}` D. `\equation{...}`
3. Which command in LaTeX is used to create an ordered list?
A. `\orderlist{...}` B. `\list{...}` C. `\sequence{...}` D. `\begin{enumerate}...\end{enumerate}`
4. When inserting an image in LaTeX, which command would you use?
A. `\image{...}` B. `\pic{...}` C. `\includegraphics{...}` D. `\addimage{...}`
5. How would you set the page margins in LaTeX?
A. `\usepackage{geometry} \geometry{...}` B. `\setmargins{...}`
C. `\usepackage{margins} \margins{...}` D. `\pagesize{...}`
6. Which LaTeX command is used to create a table with multiple columns?
A. `\usepackage{tabularx} \begin{tabularx}{...}` B. `\multicol{...}`
C. `\usepackage{multicol} \begin{multicol}{...}` D. `\array{...}`

Chapter 3

Love Basics

Warning: If you fail this part, you will be thrown out of the club, even if you have scored full marks in previous chapters.

1 SAQ

1. When is the birthday of YongTeng Rey?
2. What is the plural form of *Appendix*?
3. Please write down the phonetic symbols for the word "exit".
4. What song did YongTeng play on the club recruitment day?
5. The room number of our club office?
6. Write permutation expressions for the calculation of the number of couples in LEC (You know what I mean).
7. Who is the happiest penguin in LEC? (Happy xx)
8. Birthday of ZhenKai (The day we had dinner at *HaiDiLao*).
9. Which country had YuHang been for a short college life?
10. What is the favourite activity of this club?
11. Full name of Yuwei's major in UoE is?
12. Dr.SiYuan shared a lecture about?
13. YangQian's favourite way to catch a badminton?
14. The bottom sentence of YongTeng's FYP poster is?
15. Who is the only one in this club that has a girlfriend?

2 Judgement Question

1. YongTeng and YuWei will go to the same professional school of UoE (School of Informatics). ()

2. ZhenKai loves *XiangCai* a lot, and so does YangQian. ()
3. YuWei is a crazy fan of LaTeX. ()
4. YuHang and ZhenKai share a bed every night. ()
5. YangQian loves spicy food. ()
6. Xiangyu loves both his girlfriend and YongTeng, very very much. ()
7. L.E.C. will love every member of its, deeply and purely, forever and ever. ()

L.E.C 2023



Love you, guys.