Homework #03
Shell Script

Announce: 2008/10/21

Due: 2008/11/4 23:59:59

Problem 1-1

- Write a script that prints the required lines of the following commands' results. Only print the lines which contains "current user"
  - a. fstat
  - b. sockstat
  - c. last
  - d. ps aux
  - e. cat /etc/passwd

Problem 1-1

- Requirement
  - Complete all five commands in the script called "hw3_1_1.sh"
- Hint:
  - grep $USER

Problem 1-2

- Print the sum of all files'size in the directory(not including subdirectories), find the largest and the smallest files, and print its filenames,filesize and owners
  - Hint: awk, sed, xargs, echo

Problem 1-2

- Requirement
  - All commands should be concatenated by "|“(pipe) in one line
  - Put the line in the file called "hw3_1_2.sh”
  - Any temporary file is not allowed to be created by your script
  - If the number of the largest or the smallest was more than one, choose the last one

Problem 1-2

- About using “;”
  - Wrong
    - %echo “hello” ; echo “world”

      hello

      world
  - Right
    - %cat /etc/passwd | grep USERNAME | awk '{print "hello“ ; print "world"}‘

      hello

      world

Problem 2

- Change all files' filename extension at a specific directory, including subdirectories

- Requirement
  - All codes should be in the file called "hw3_2.sh"
  - Any temporary file is not allowed to be created by your script

Problem 2

- Input format
  - -d: the target directory running your program
  - -f: the filename extension that you want to be replaced by the string follow "-t"
  - -t: the filenmae extension that you want to replace the original filename extension -f specified
  - These doesn't have any differences.
    - ./hw3_2.sh -d /tmp -f test -t xxx
    - ./hw3_2.sh -t xxx -d /tmp -f test
    - ./hw3_2.sh -f test -t xxx -d /tmp

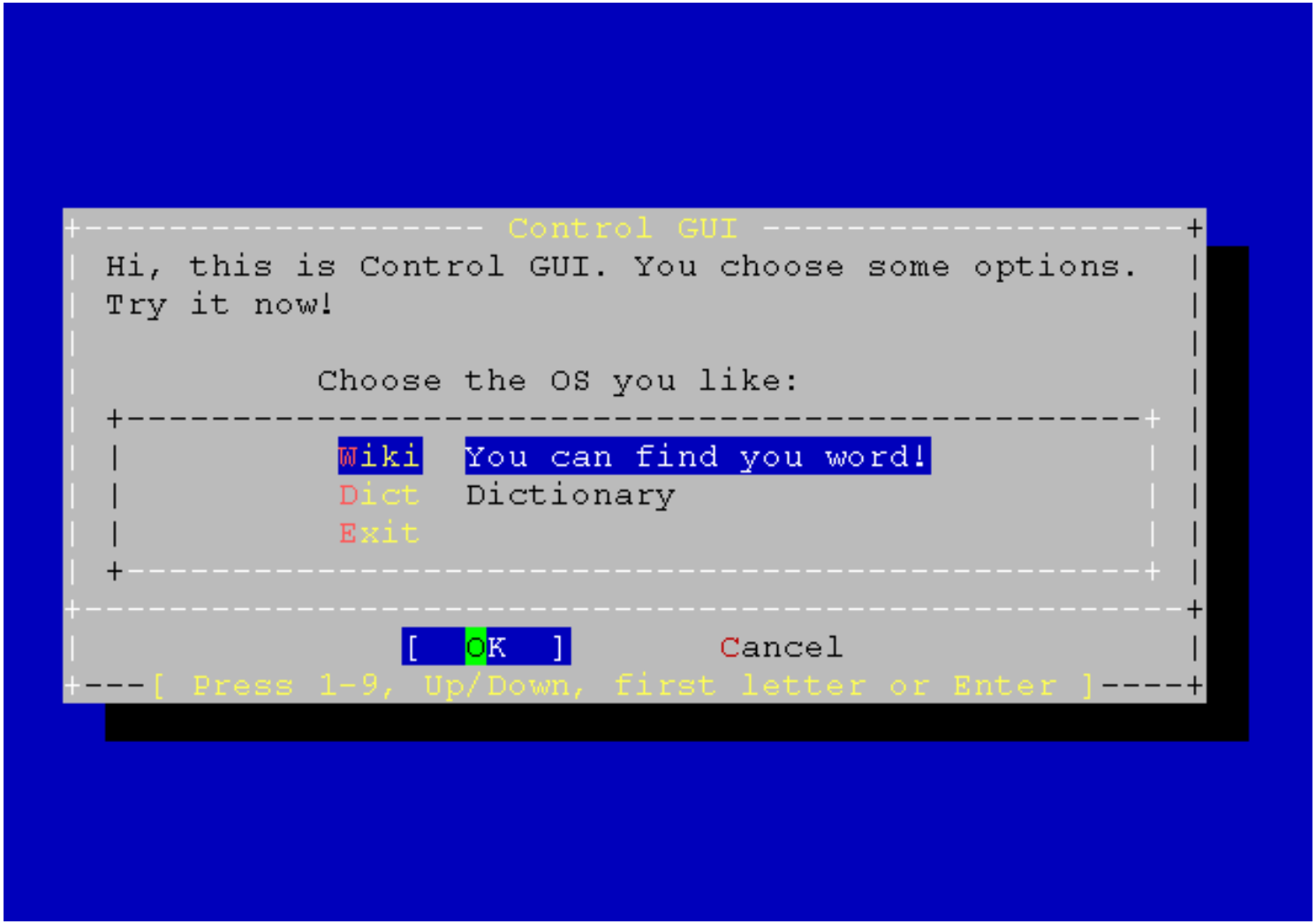
Problem 3

- Use the tool dialog(1) to create required graphical user interface (GUI)

- Hint:
  - /usr/share/examples/dialog
  - fetch(1),www/w3m-m17n, ftp/wget, www/lynx,www/link

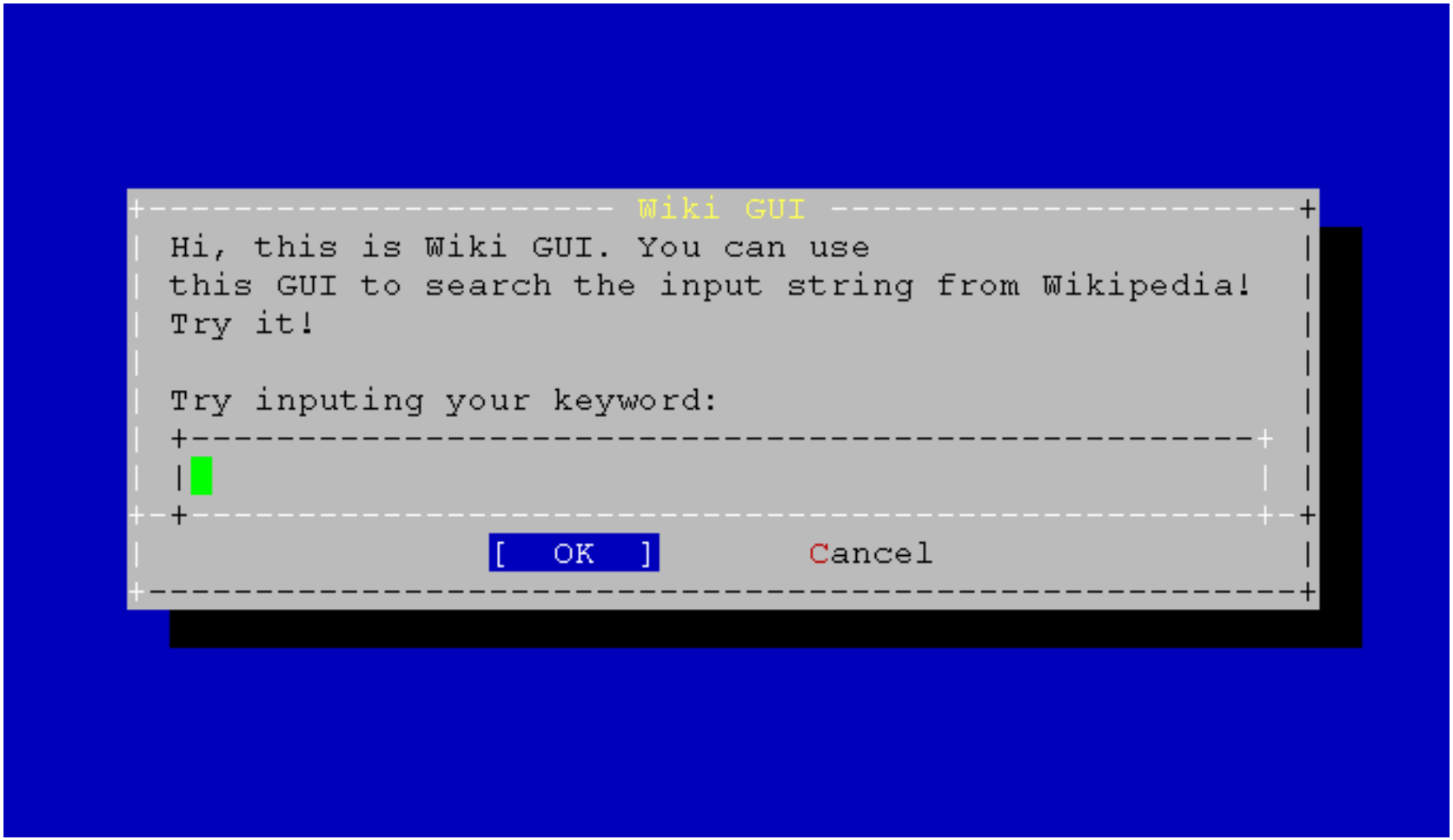
Problem 3

- Requirement
  - Center GUI:
    - Control all GUIs. It has some options as following:
    - Options list:
      - Wikipedia: If you choose this option, it will invoke the Wiki GUI
      - Dictionary:If you choose this option, it will invoke the Dict GUI
      - Exit: If you choose this option, it will shutdown this Center GUI


Control GUI
Hi, this is Control GUI. You choose some options.
Try it now!
Choose the OS you like:
Wiki You can find you word!
Dict Dictionary
Exit
[OK]
Cancel
[Press 1-9, Up/Down, first letter or Enter]

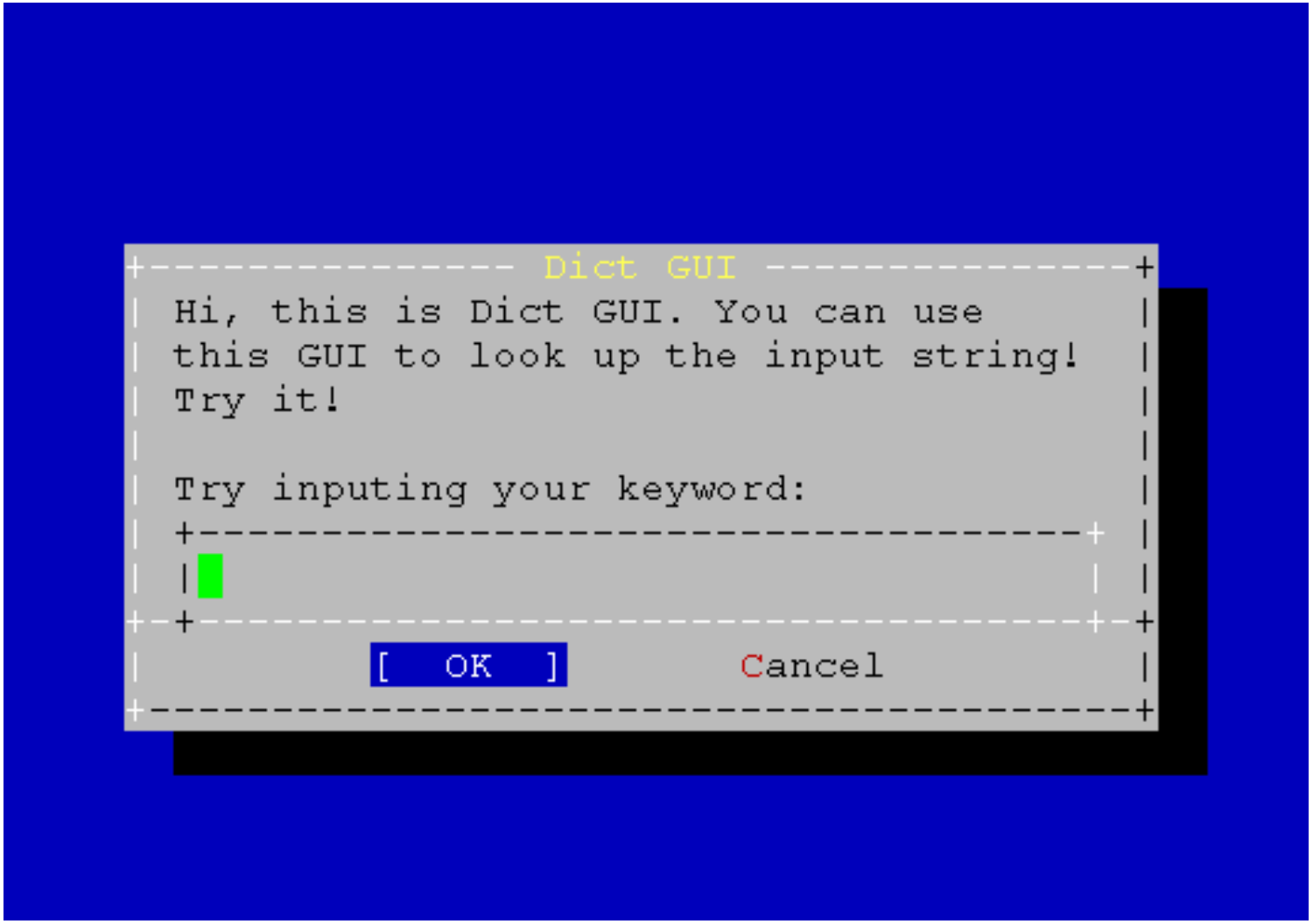
Problem 3

- Wiki GUI:
  - Read the input string
  - Search the string from http://wikipedia.org/, show the result web pages
  - When Wiki GUI shutdown, it will return to Center GUI
  - hint:
    - just use "w3m (www/w3m-m17n)" or other text web browsers.
    - www/w3m-m17n, www/lynx, www/link


Wiki GUI
Hi, this is Wiki GUI. You can use
this GUI to search the input string from Wikipedia!
Try it!
Try inputing your keyword:
[OK]
Cancel

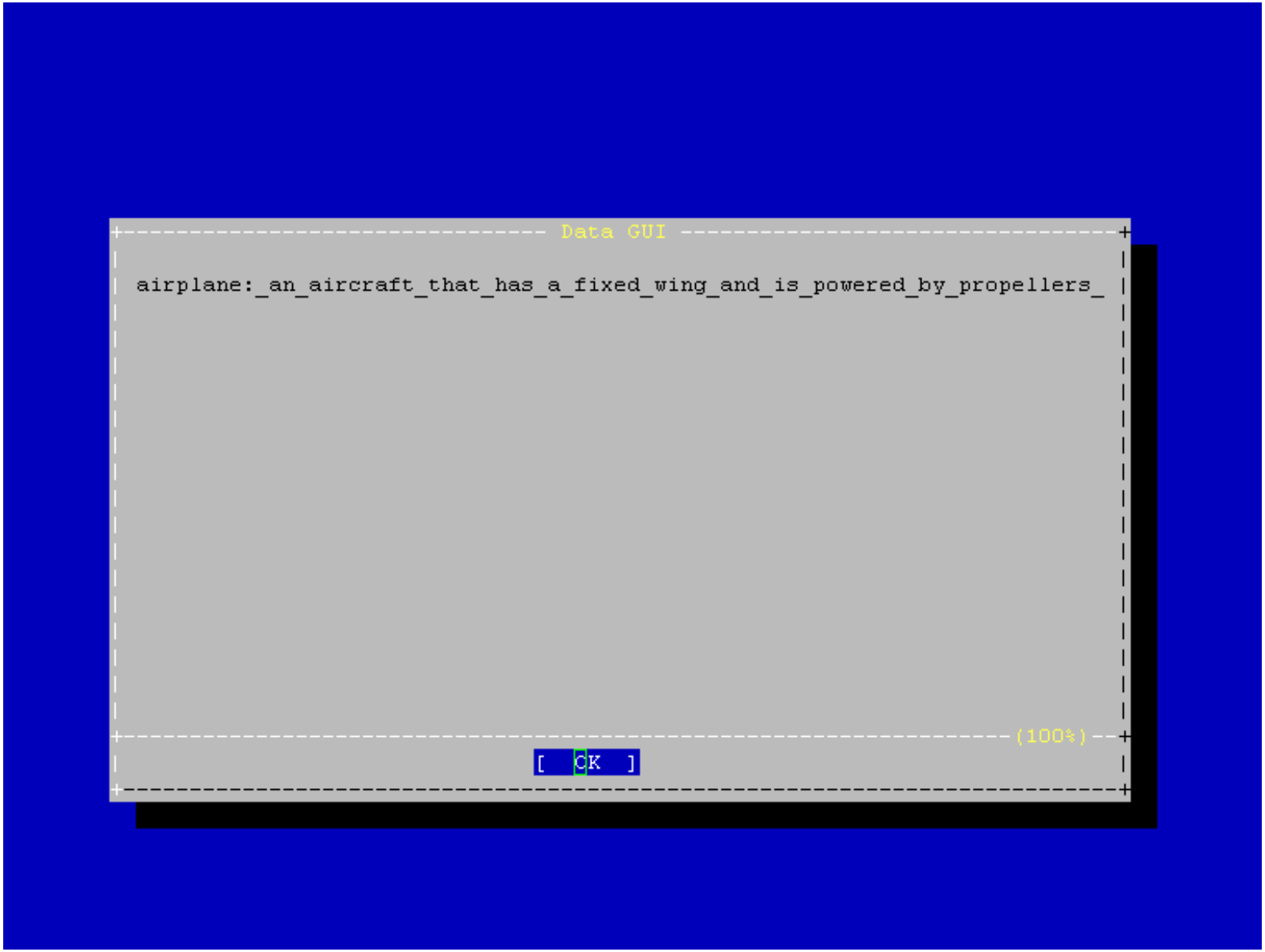
Problem 3

- Dict GUI:
  - Read the input string
  - Connect to google dictionary, look up the string, and finally show the data on Date GUI
  - Link:
    - http://www.google.com.tw/dictionary?hl=en
  - Hint:
    - fetch(1) , ftp/wget


Dict GUI
Hi, this is Dict GUI. You can use this GUI to look up the input string! Try it!
Try inputing your keyword:
[OK]
Cancel

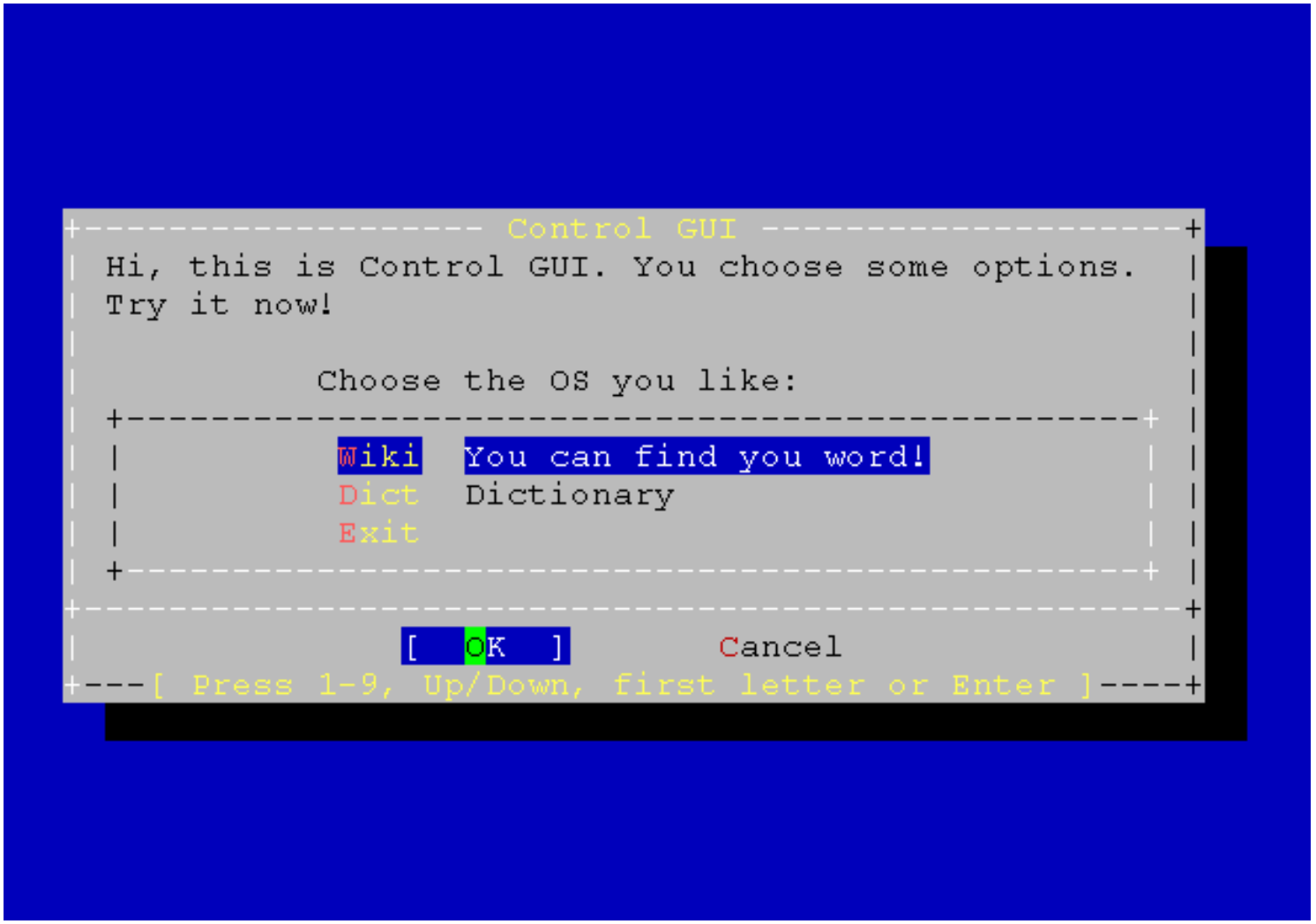
Problem 3

- Data GUI:
  - Show the data coming from the google dictionary.
  - Just show the first definition or the shortest definition.
  - When Data GUI shutdown, it will return to Center GUI.


Data GUI
airplane: an aircraft that has a fixed wing and is powered by propellers
(100%)
[OK]

Problem 3

- Bonus:
  - Add new options in Center GUI with other services.
  - Merge the Dict GUI and the Data GUI into one called Merged GUI. The Merged GUI must have a option to go back to the Center GUI.
  - Hint:
    - Use yesno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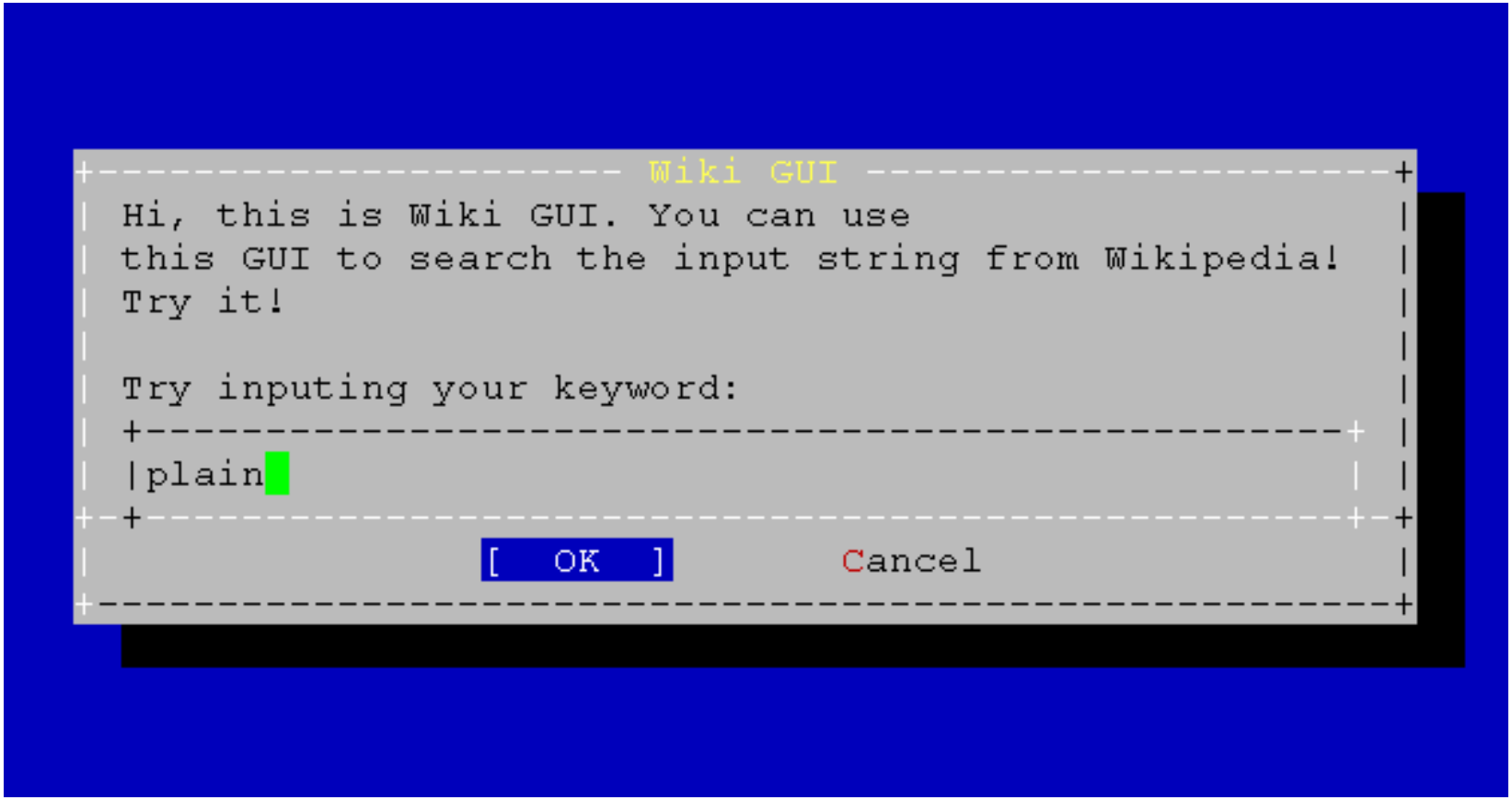
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plain
[OK]
Cancel

Plain

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Jump to: navigation, search
[250px-Cryon_5]
#
A small mirage on the road, Western plains, New South Wales, Australia

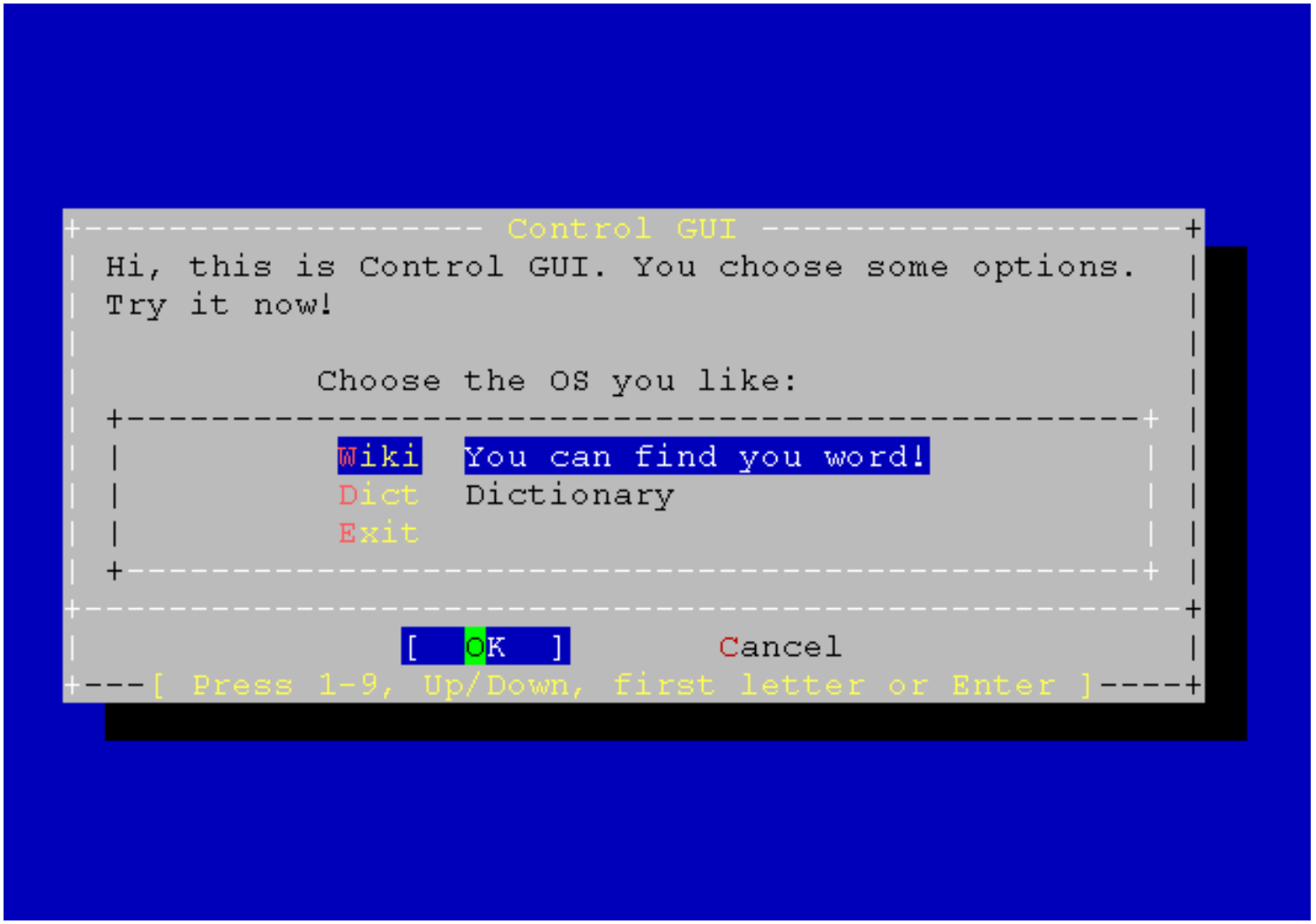
In geography, a **plain** is an area of land with relatively low relief me
types of plains, and the archetype for a plain is often thought of as a gr
be covered in shrublands, woodland and forest, or vegetation may be absent
deserts. Types of flatlands for which the term is not generally used inclu
, marshes, playas, or ice sheets.

Plains occur as lowlands and at the bottoms of valleys but also on plateau
from flowing lava, deposited by water, ice or wind, or formed by erosion b

Plains in many areas are important for agriculture, because where the soil
fertile, and the flatness facilitates mechanization of crop production; or
grazing for livestock.

Contents

  * 1 Types of terrestrial plains
  * 2 Other types of plain
  * 3 Notes and references
  * 4 See also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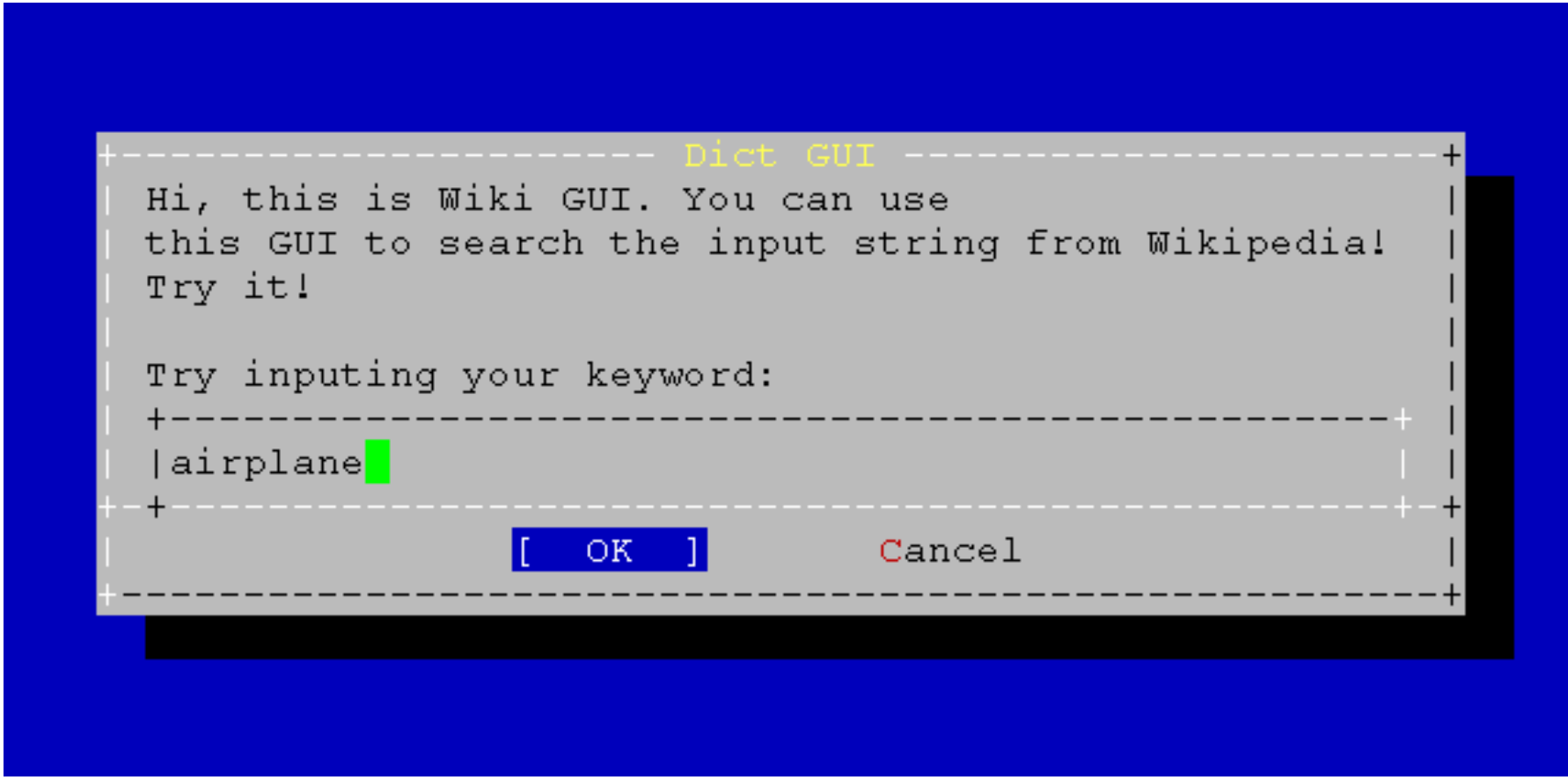
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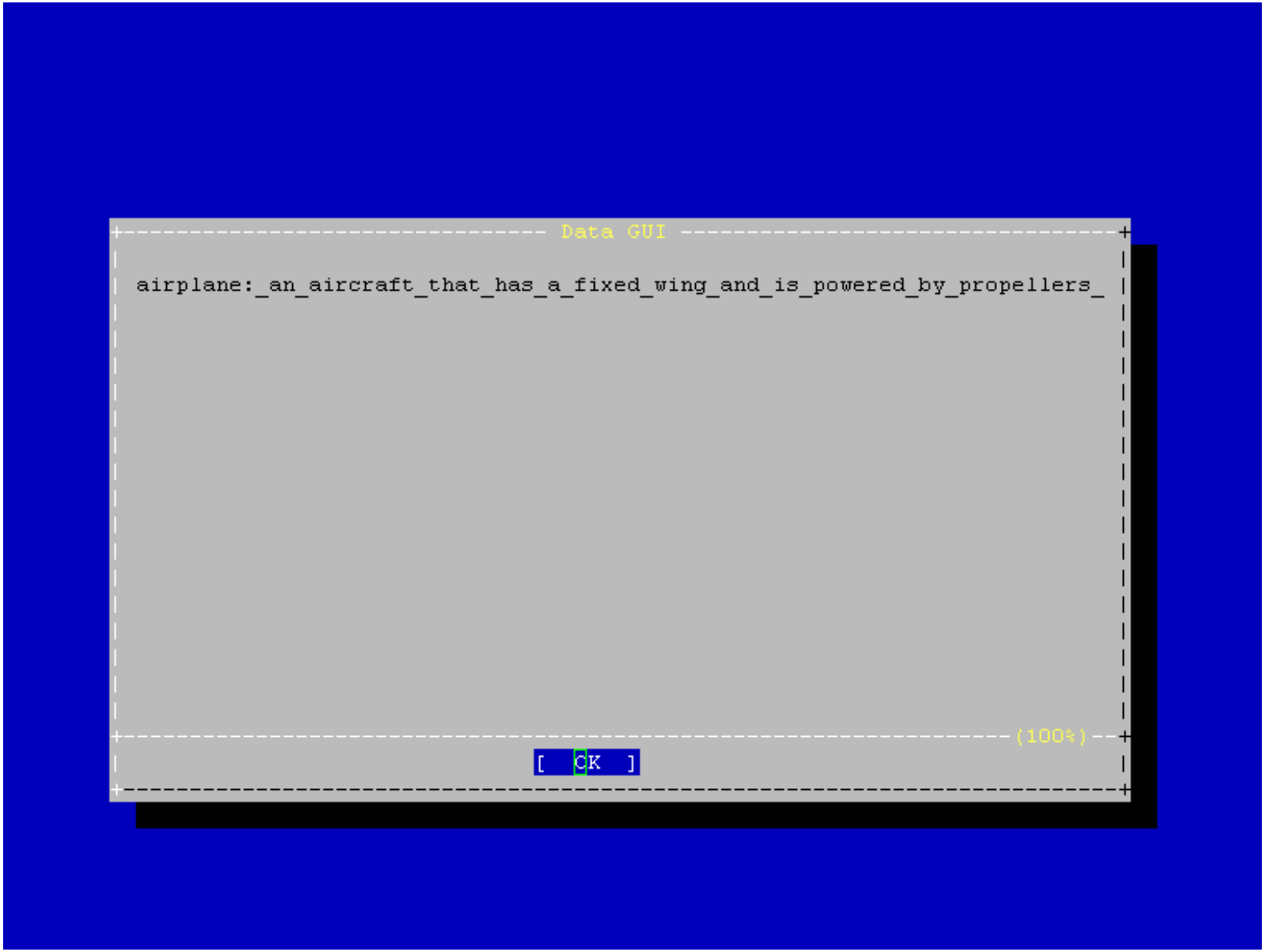
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(100%)
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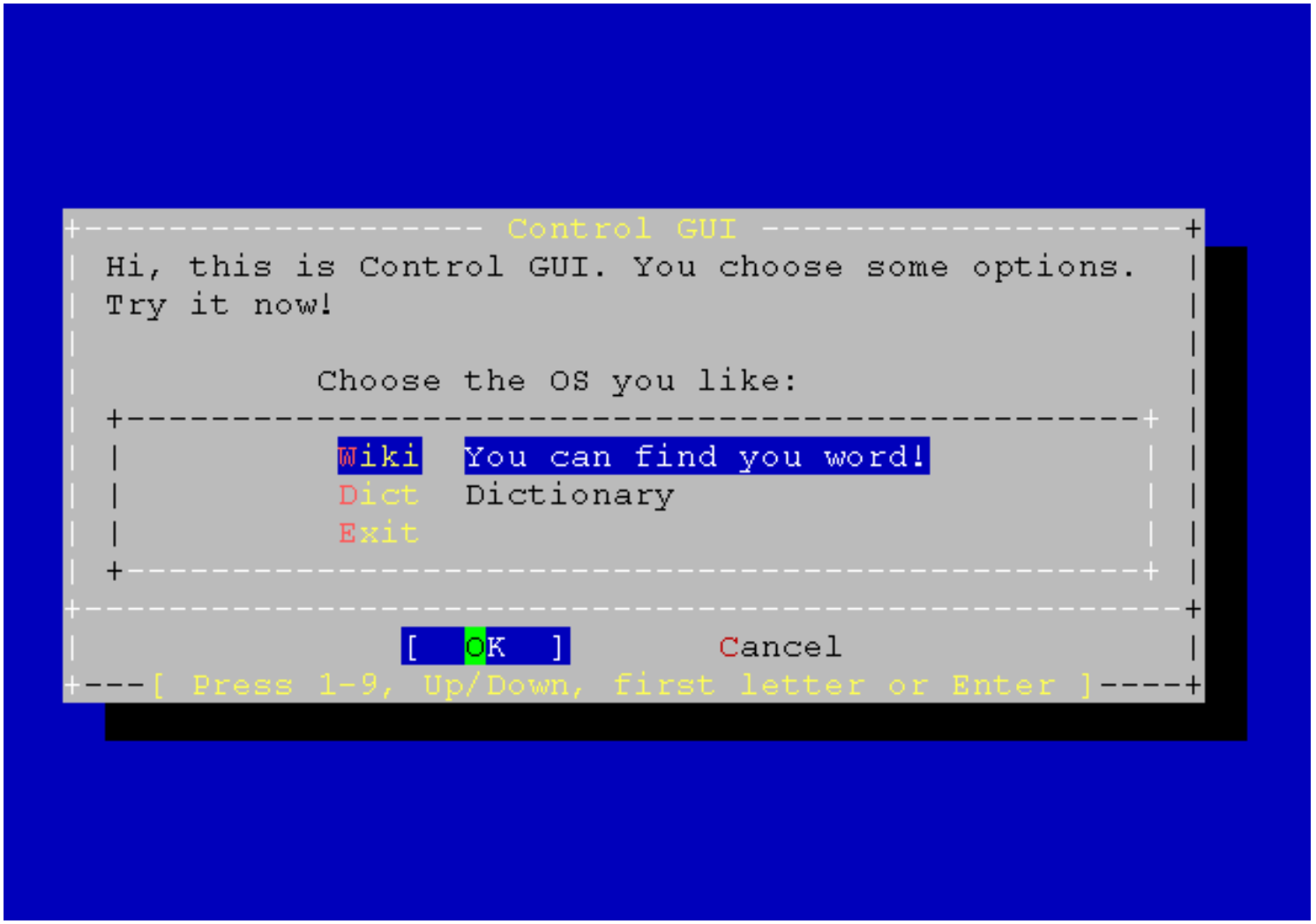
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Problem 3

- All codes should be in the file called "hw3_3.sh".

Due Day

- Due: 2008/11/4 23:59:59
- Put all your homework in ID_version.tar
  - Ex: 9700001_01.tar
- Upload to sahw3.yzlin.org
  - anonymous
  - Make directory called student_ID
  - Put your homework on above directory
    - Ex: /9700001/9700001_01.tar

Demo time

- 2008/11/05 15:30 ~ 21:00
- At EC324