

Option 2:

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Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help
jason@jason-desktop: HW7$ ./ComputerLabs.out
How many labs should I create?
Enter an integer here: 5

How many computer should each lab have?
Enter an integer here: 2

Creating 5 labs and each lab will have 2 computers.

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 2

Computer Lab Login System
Please enter your user ID: 12345
Please enter the lab number: 0
Please enter the computer number: 1

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: 12345
1:      0: empty 1: empty
2:      0: empty 1: empty
3:      0: empty 1: empty
4:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: █
```

Option 3:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 3

Computer Lab Logoff System
Please enter your user ID: 5555
Removing 5555 from the computer system.

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: empty
1:      0: empty 1: empty
2:      0: empty 1: empty
3:      0: empty 1: empty
4:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: █
```

Option 4:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help
Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 2

Computer Lab Login System
Please enter your user ID: 5555
Please enter the lab number: 3
Please enter the computer number: 0

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 4

Computer Lab Search System
Please enter your user ID: 5555

Found the user ID: 5555
Currently logged into computer 0 in lab 3

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:    Computers:
0:       0: empty 1: empty
1:       0: empty 1: empty
2:       0: empty 1: empty
3:       0: 5555 1: empty
4:       0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: █
```

Option 5:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 5

Computer Lab Add Computer System
Enter the lab you'd like to add a computer at: 0
Enter the position you'd like to insert the computer at: 1

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: empty 2: empty
1:      0: empty 1: empty
2:      0: empty 1: empty
3:      0: empty 1: empty
4:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: █
```

Option 6:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help
Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 6

Computer Lab Add Lab System
Enter the position you'd like to add a lab at: 2
Enter the number of computers this lab should have: 6

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: empty 2: empty
1:      0: empty 1: empty
2:      0: empty 1: empty 2: empty 3: empty 4: empty 5: empty
3:      0: empty 1: empty
4:      0: empty 1: empty
5:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 
```

Option 7:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 7

Computer Lab Remove Computer System
Enter a computer and its location to remove it.
Enter the computer's lab number: 0
Enter the computer's number: 0

Removing computer 0 from lab number 0.

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: empty
1:      0: empty 1: empty
2:      0: empty 1: empty 2: empty 3: empty 4: empty 5: empty
3:      0: empty 1: empty
4:      0: empty 1: empty
5:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 
```

Option 8:

```
Terminal - jason@jason-desktop: ~/GitHub/College/CIII/HW7
File Edit View Terminal Tabs Help
Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 8

Computer Lab Remove Lab System
Enter a lab to remove: 2

Removing lab number 2 from the computer system.

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 1

Computer Lab Display System
Labs:   Computers:
0:      0: empty 1: empty
1:      0: empty 1: empty
2:      0: empty 1: empty
3:      0: empty 1: empty
4:      0: empty 1: empty

Please enter one of the following options
1) Display all the labs, computers, and users
2) Login
3) Logoff
4) Search user
5) Add a computer
6) Add a lab
7) Remove a computer
8) Remove a lab
9) Quit
Enter your selection: 
```