

Last login: Thu Jul 24 18:50:04 on ttys000
^[[AUFs-MacBook-Pro:~ tianwenlan\$ cd Documents/Courses/CS/"COP3503 Programming fmentals 2"/Homework/Hw03/
UFs-MacBook-Pro:Hw03 tianwenlan\$./a.out

This a program to solve the Towers of Hanoi problem.
You can enter different numbers of disks to play with.
=====

0-exit
1-Show the time to solve the tower of Hanoi problem with differnt number of disks
2-Draw the graph time vs. number of disks
3-Display the contents of all three towers every time a disk is moved
4-Unshown the content of the towers
5-Show menu
=====

> 1
please enter the enter of disks you want to play:
(enter[0] to finish input)

10
[10]disks took 0.000202 seconds
please enter the enter of disks you want to play:
(enter[0] to finish input)

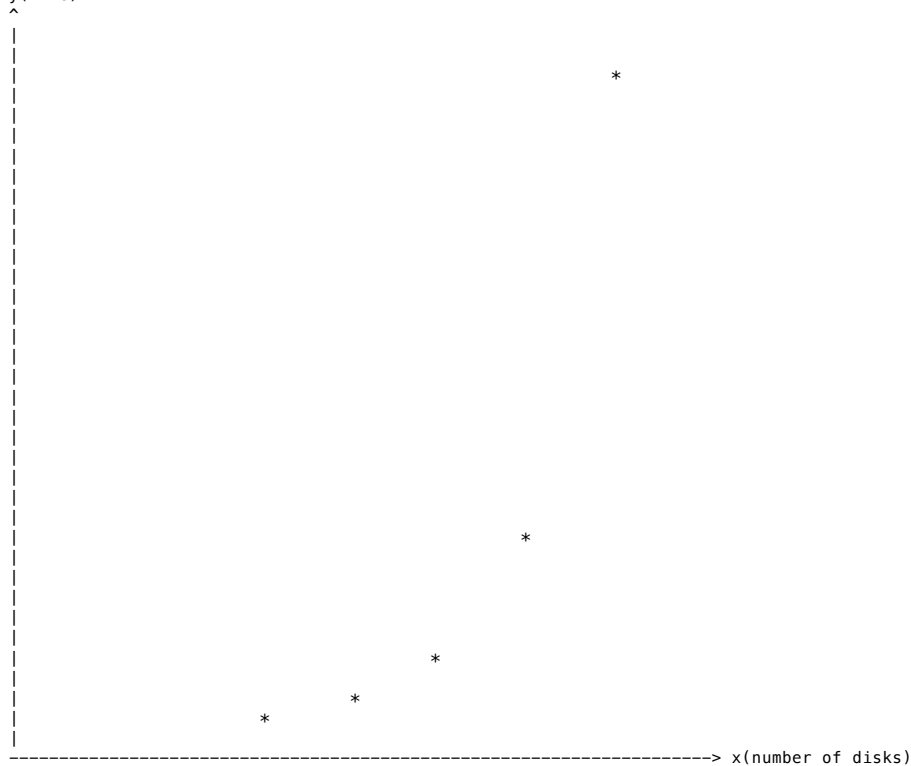
8
[8]disks took 6.2e-05 seconds
please enter the enter of disks you want to play:
(enter[0] to finish input)

6
[6]disks took 2.4e-05 seconds
please enter the enter of disks you want to play:
(enter[0] to finish input)

14
[14]disks took 0.002647 seconds
please enter the enter of disks you want to play:
(enter[0] to finish input)

12
[12]disks took 0.000646 seconds
please enter the enter of disks you want to play:
(enter[0] to finish input)

0
> 2
y(time)



> 3
please enter the enter of disks you want to play:
enter [0] to end input

5
Tower 0: 5 4 3 2 1
Tower 1:
Tower 2:

=====
Tower 0: 5 4 3 2
Tower 1:
Tower 2: 1
=====

Tower 0: 5 4 3
Tower 1: 2
Tower 2: 1

```
=====
Tower 0: 5 4 3
Tower 1: 2 1
Tower 2:
=====
Tower 0: 5 4
Tower 1: 2 1
Tower 2: 3
=====
Tower 0: 5 4 1
Tower 1: 2
Tower 2: 3
=====
Tower 0: 5 4 1
Tower 1:
Tower 2: 3 2
=====
Tower 0: 5 4
Tower 1:
Tower 2: 3 2 1
=====
Tower 0: 5
Tower 1: 4
Tower 2: 3 2 1
=====
Tower 0: 5
Tower 1: 4 1
Tower 2: 3 2
=====
Tower 0: 5 2
Tower 1: 4 1
Tower 2: 3
=====
Tower 0: 5 2 1
Tower 1: 4
Tower 2: 3
=====
Tower 0: 5 2 1
Tower 1: 4 3
Tower 2:
=====
Tower 0: 5 2
Tower 1: 4 3
Tower 2: 1
=====
Tower 0: 5
Tower 1: 4 3 2
Tower 2: 1
=====
Tower 0: 5
Tower 1: 4 3 2 1
Tower 2:
=====
Tower 0:
Tower 1: 4 3 2 1
Tower 2: 5
=====
Tower 0: 1
Tower 1: 4 3 2
Tower 2: 5
=====
Tower 0: 1
Tower 1: 4 3
Tower 2: 5 2
=====
Tower 0:
Tower 1: 4 3
Tower 2: 5 2 1
=====
Tower 0: 3
Tower 1: 4
Tower 2: 5 2 1
=====
Tower 0: 3
Tower 1: 4 1
Tower 2: 5 2
=====
Tower 0: 3 2
Tower 1: 4 1
Tower 2: 5
=====
Tower 0: 3 2 1
Tower 1: 4
Tower 2: 5
=====
Tower 0: 3 2 1
Tower 1:
Tower 2: 5 4
=====
Tower 0: 3 2
Tower 1:
Tower 2: 5 4 1
=====
```

```
Tower 0: 3
Tower 1: 2
Tower 2: 5 4 1
=====
Tower 0: 3
Tower 1: 2 1
Tower 2: 5 4
=====
Tower 0:
Tower 1: 2 1
Tower 2: 5 4 3
=====
Tower 0: 1
Tower 1: 2
Tower 2: 5 4 3
=====
Tower 0: 1
Tower 1:
Tower 2: 5 4 3 2
=====
Tower 0:
Tower 1:
Tower 2: 5 4 3 2 1
=====
please enter the enter of disks you want to play:
enter [0] to end input
0
>
```