

Name: Timothy Caole

Date: 2/19/2024

## Program3C philosopher.cpp Report

Table 1 – Run Time of Table Test from phiosopher.cpp

Table Number	Table#0	Table#1	Table#2
Run Time	3006634	15003149	8002743

Figure 1 – Table#0 Result and Steps to Test Table#0

Step#1: to test table#0 in "philosoper.cpp"  
type "./a.out 0"

```
tjcaole@csslab9:~$ ./a.out 0
philosopher[1] picked up chopsticks
philosopher[3] picked up chopsticks
philosopher[0] picked up chopsticks
philosopher[4] picked up chopsticks
2] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[0] philosopher[] put down chopsticks
philosopher[0] picked up chopsticks
3] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[0] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[3] put down chopsticks
philosopher[0] put down chopsticks
philosopher[4] put down chopsticks
philosopher[2] put down chopsticks
time = 3006634
tjcaole@csslab9:~$
```

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Figure 2 – Table#1 Result and Steps to Test Table#1

Step#1: to test table#1 in "philosoper.cpp"  
type "./a.out 1"

```
tjcaole@csslab9:~$ ./a.out 1
philosopher[0] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[0] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[0] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[1] put down chopsticks
time = 15003149
tjcaole@csslab9:~$
```

Table#1 Run Time

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## Program3C

Figure 3 – Table#2 Result and Steps to Test Table#2

Step#1: to test table#2 in "philosoper.cpp"  
type "./a.out 2"

```
tjcaole@csslab9:~$ ./a.out 2
philosopher[0] picked up chopsticks
philosopher[2] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[2] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[1] picked up chopsticks
philosopher[philosopher[1] put down chopsticks
4] put down chopsticks
philosopher[0] picked up chopsticks
philosopher[3] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[3] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[4] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[0] picked up chopsticks
philosopher[2] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[0] put down chopsticks
philosopher[1] picked up chopsticks
philosopher[3] put down chopsticks
philosopher[4] picked up chopsticks
philosopher[1] put down chopsticks
philosopher[2] picked up chopsticks
philosopher[4] put down chopsticks
philosopher[2] put down chopsticks
philosopher[3] picked up chopsticks
philosopher[3] put down chopsticks
time = 8002743
tjcaole@csslab9:~$
```

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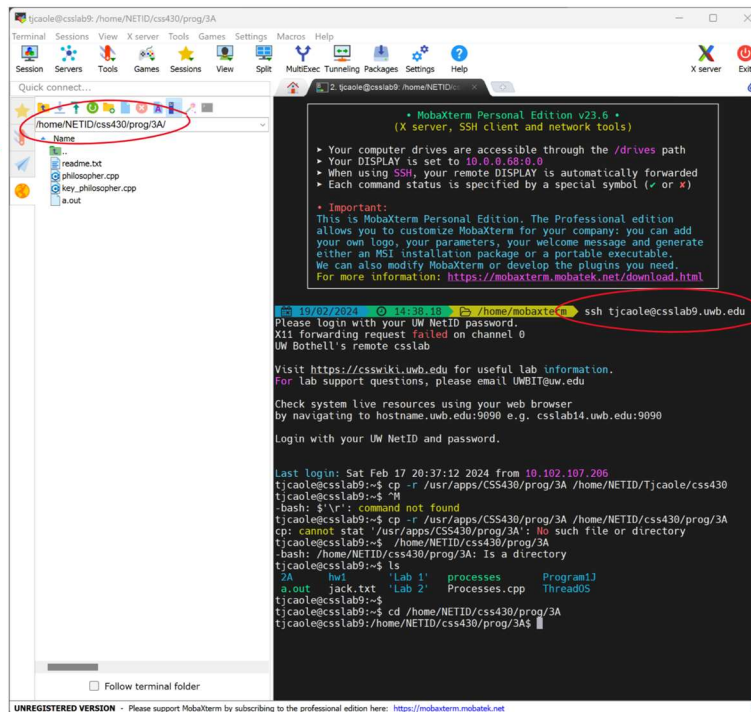
## Program3C

Figure 4 – Steps to get access to philosopher.cpp

Step#2: Type in the top  
"/home/NETID/css430/prog/3A/"  
to get access to the "philosopher.cpp"

Step#3: Copy the "philosopher.cpp"  
into your own directory

Step#4: Start coding in the  
"philosopher.cpp"



```
tjcaole@csslab9: /home/NETID/css430/prog/3A/
Quick connect...
Name
/home/NETID/css430/prog/3A/
readme.txt
philosopher.cpp
key_philosopher.cpp
a.out

tjcaole@csslab9: /home/NETID/css430/prog/3A/
ssh tjcaole@csslab9.uwb.edu
Please login with your UW NetID and password.
X11 forwarding request failed on channel 0
UW Bothell's remote csslab

Visit https://csswiki.uwb.edu for useful lab information.
For lab support questions, please email UWBIT@uw.edu

Check system live resources using your web browser
by navigating to hostname.uwb.edu:9090 e.g. csslab14.uwb.edu:9090

Login with your UW NetID and password.

Last login: Sat Feb 17 20:37:12 2024 from 10.102.107.206
tjcaole@csslab9:~$ cp -r /usr/apps/CSS430/prog/3A /home/NETID/tjcaole/css430
tjcaole@csslab9:~$ cd /home/NETID/css430/prog/3A
tjcaole@csslab9:~/css430/prog/3A$ ls
a.out  jack.txt  'Lab 2'  Processes.cpp  Thread05
tjcaole@csslab9:~/css430/prog/3A$ cd /home/NETID/css430/prog/3A
tjcaole@csslab9:~/css430/prog/3A$
```

Step#1: Login into the UW virtual  
Machine Lab



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## Program3C

Figure 5 – Steps to Compile philosopher.cpp

```
tjcaole@csslab9: ~  
Terminal Sessions View X server Tools Games Settings Macros Help  
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help  
Quick connect...  
/home/NETID/tjcaole/  
Name  
..  
ThreadOS  
Program1J  
Lab 2  
Lab 1  
hw1  
2A  
.vscode-server  
.gnupg  
.cache  
Processes.cpp  
processes  
philosopher.cpp  
jack.txt  
a.out  
.wget-hsts  
.viminfo  
.profile  
.jack.txt.swo  
.jack.txt.swn  
.bashrc  
.bash_logout  
.bash_history  
.q.swp  
19/02/2024 21:01:59 /home/mobaxterm ssh tjcaole@csslab9.uwb.edu  
Please login with your UW NetID password.  
X11 forwarding request failed on channel 0  
UW Bothell's remote csslab  
Visit https://csswiki.uwb.edu for useful lab information.  
For lab support questions, please email UWBIT@uw.edu  
Check system live resources using your web browser  
by navigating to hostname.uwb.edu:9090 e.g. csslab14.uwb.edu:9090  
Login with your UW NetID and password.  
Last login: Mon Feb 19 20:36:23 2024 from 10.102.113.159  
tjcaole@csslab9:~$ ls  
2A hw1 'Lab 1' philosopher.cpp Processes.cpp ThreadOS  
a.out jack.txt 'Lab 2' processes Program1J  
tjcaole@csslab9:~$ g++ -lpthread philosopher.cpp
```

Step#1: Login into the UW  
virtual Machine Lab

Step#2: Check that "philosopher.cpp" is in your  
directory inorder to test and compile it

Step#3: to compile "philosopher.cpp" type the  
following "g++ -lpthread philosopher.cpp"