COMP3230 - Tutorial 1

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Exercise 1.1:

Exercise 1.2:

alee@wo	orkbench: ~						X
alee@work	bench:~\$ free	-s 2 -c 5 -	g				
	total	used	free	shared	buff/cache	available	
Mem:	376	0	375	0	0	376	
Swap:	0	0	0				
	total	used	free	shared	buff/cache	available	
Mem:	376	0	375	0	0	376	
Swap:	0	0	0				
	total	used	free	shared	buff/cache	available	
Mem:	376	0	375	0	0	376	
Swap:	0	0	0				
	total	used	free	shared	buff/cache	available	
Mem:	376	0	375	0	0	376	
Swap:	0	0	0				
	total	used	free	shared	buff/cache	available	
Mem:	376	0	375	0	0	376	
Swap:	0	0	0				
alee@work	bench:~\$ free	-mt					
	total	used	free	shared	buff/cache	available	
Mem:	385650	440	384698	4	510	385209	
Swap:	0	0	0				
Total:	385650	440	384698				
alee@work	bench:~\$						

The swap in second line means the swap space on any computer running Linux or Unix type operating system. Swap space will used when the amount of RAM is full. Swap space located in the hard drives, so it requires more time to access the items in the swap space. However, if we needed more memories, we can move the inactive items to the swap space in order to have more memories.

Exercise 4:

```
alee@workbench: ~/comp3230
                                                                                                   X
alee@workbench:~/comp3230$ gcc -Wall -g gdb exercise.c -o gdb exercise
gdb_exercise.c: In function 'main':
gdb_exercise.c:15:9: warning: unused variable 'result' [-Wunused-variable]
alee@workbench:~/comp3230$ gdb -q gdb_exercise
Reading symbols from gdb_exercise...done.
(gdb) b 3
Breakpoint 1 at 0x60a: file gdb_exercise.c, line 3.
(gdb) r
Starting program: /student/19/cs/alee/comp3230/gdb exercise
Breakpoint 1, func1 (a=9) at gdb exercise.c:3
               return tmp;
(gdb) bt
#0 func1 (a=9) at gdb_exercise.c:3
#1 0x000055555555462b in func2 (a=3, b=3) at gdb_exercise.c:7
#2 0x0000555555554652 in func3 (a=1, b=2, c=3) at gdb_exercise.c:11
#3 0x00005555555554670 in main () at gdb_exercise.c:15
(gdb) print tmp
$1 = 18
(gdb)
```