

Nicholas Jurden 2415098 Lab 1

I used the supplied *simple.c* file as a resource to answer the questions posed.

Write up

Question 1

Commands as follows:

```
vim simple.c
```

copy 12 lines of code within vim:

```
12yy
```

generate 3 .c files

```
touch a.c b.c c.c
```

paste 12 lines in each file

```
vim a.c
```

```
p
```

```
:wq
```

```
vim b.c
```

```
p
```

```
:wq
```

```
vim c.c
```

```
p
```

```
:wq
```

Question 2

I used a buffer to stage another file and then switched to that file once I had the screen vertically split:

```
vim simple.c
:e simple.h
<C-W> V
:bnxt
```

now I have two files open in the session, simple.c and simple.h, divided vertically:

```

1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <math.h>
4 #include <string.h>
5 #include "simple.h"
6
7 void display_onto_stdout(const char *str)
8 {
9     printf("%s\n", str);
10 }
11
12 /*
13  * It's good to keep descriptive comment
14  */
15
16 double find_cosine(double value)
17 {
18     return cos(value);
19 }
20
21 /*
22  * The way this code is formatted makes
23  * this block of code
24  */
25
26 void useless_loop(int iterations)
27 {
28     int i;
29     for (i=0; i < iterations; i++) {
30         long long t1, t2;
31         t1 = random();
32         t2 = random();
33     }
34 }
35
36

```

Question 3

to generate a directory of all functions

```
ctags -R  
vim tags
```

see where all functions are declared, find the one I am looking for, go back to *simple.c*

```
vim simple.c
```

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Question 4

to remove all whitespace, do a find and replace for the universal character for whitespace `\s`

```
vim whitespaceFile.c  
:%s/\s//g
```

<hr/>

Question 5

another find and replace will solve this problem

```
vim billFile.c  
:%s/Bill Self/basketball genius Bill Self/g
```