# CS2263 Lab 2 – Isaac Shoebottom

### Exercise 0:

```
[ishoebot@id415m35 Lab3]$ git clone https://vcs.cs.unb.ca/git/cs2263-ishoebot
Cloning into 'cs2263-ishoebot'...
Username for 'https://vcs.cs.unb.ca': ishoebot
Password for 'https://ishoebot@vcs.cs.unb.ca':
warning: You appear to have cloned an empty repository.
[ishoebot@id415m35 Lab3]$ ls
cs2263-ishoebot
[ishoebot@id415m35 Lab3]$ cd cs2263-ishoebot/
[ishoebot@id415m35 cs2263-ishoebot]$ []
```

## Exercise 1:

#### Question 1:

The pointer variables are incremented correctly. They are shown to go up by the size of the data type they hold. (0x7ffddeee84b4 - 0x7ffddeee84b0 = 4, 0x7ffddeee84a1 - 0x7ffddeee84a0 = 1, 0x7ffddeee8488 - 0x7ffddeee8480 = 8)

#### Question 2:

The increments of the different pointers are different, not the same. They would only be the same if they were the same type.



Exercise 2:

0 10 1 11 2 12 3 13 4 14 5 15 6 16	<pre>15m35 cs2263-ishoe 0x7ffc54f880d0 0x7ffc54f880d4 0x7ffc54f880d8 0x7ffc54f880dc 0x7ffc54f880e0 0x7ffc54f880e4 0x7ffc54f880e8 15m35 cs2263-ishoe</pre>	10 11 12 13 14 15 16	raylisting		
[ishoebot@id4 [master 5e17] 1 file chan create mode [ishoebot@id4 Username for Password for Counting obje Compressing of Writing obje Total 3 (det To https://ve 59829c9!	15m35 cs2263-ishoe 15m35 cs2263-ishoe 25] Added arrindex. 2ed, 12 insertions( 100644 arrindex.c 15m35 cs2263-ishoe 'https://vcs.cs.un 'https://ishoebota ects: 4, done. sion using up to 8 bjects: 100% (3/3), 49 cs: 100% (3/3), 49 cs.cs.unb.ca/git/cs is.cs.unb.ca/git/cs is.15m35 cs2263-ishoe	bot]\$ git .c +) bot]\$ git b.ca': ish vcs.cs.unb threads. , done. 8 bytes   lta 0) 2263-ishoe master	commit -m "A push loebot o.ca': 0 bytes/s, d	dded arrindex.c"	

## Exercise 3:

[ishoebot@id415m35 cs2263-ishoebot]\$ ./arrindex 0 0
1 1
2 2
3 3 4 4
5 5
6 6
[ishoebot@id415m35 cs2263-ishoebot]\$ git add arrindex.c
[ishoebot@id415m35 cs2263-ishoebot]\$ git commit -m "Added arrindex.c"
[master 5e17525] Added arrindex.c
1 file changed, 12 insertions(+)
create mode 100644 arrindex.c
[ishoebot@id415m35 cs2263-ishoebot]\$ git push
Username for 'https://vcs.cs.unb.ca': ishoebot
Password for 'https://ishoebot@vcs.cs.unb.ca':
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 498 bytes   0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://vcs.cs.unb.ca/git/cs2263-ishoebot 59829c95e17525 master -> master
[ishoebot@id415m35_cs2263-ishoebot]\$

#### Exercise 4:

Question 1:

High	Х
	Arr[4]
	Arr[3]
	Arr[2]
	Arr[1]
	Arr[0]
Low	Υ

#### Question 2:

They are different. I assume it has something to do with the way the operating system/cpu handles memory, something beyond my control. Otherwise I have no idea.

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#### Exercise 5:

[ishoebot@id415m35 cs2263-ishoebot]\$ rm arrindex.c [ishoebot@id415m35 cs2263-ishoebot]\$ ls arithmetic1 arithmetic1.c arrayListing arrayListing.c arrindex wrongindex wrongindex.c [ishoebot@id415m35 cs2263-ishoebot]\$ git checkout arrindex.c [ishoebot@id415m35 cs2263-ishoebot]\$ ls arithmetic1 arithmetic1.c arrayListing arrayListing.c arrindex arrindex.c wrongindex wrongindex.c