Nicole Luong

Week 7

Pointers

Help Sessions!

How was Assignment 1?

Check in week



Pointers



Pointers

How do we:

- Initialise a variable
- Initialise a pointer
- Change the value of the variable
- Print the value of the variable



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Pointers

Instructions

1.	int	n =	42:

4.
$$p = &n$$

$$5. *p = 5;$$

6.
$$*q = 17;$$

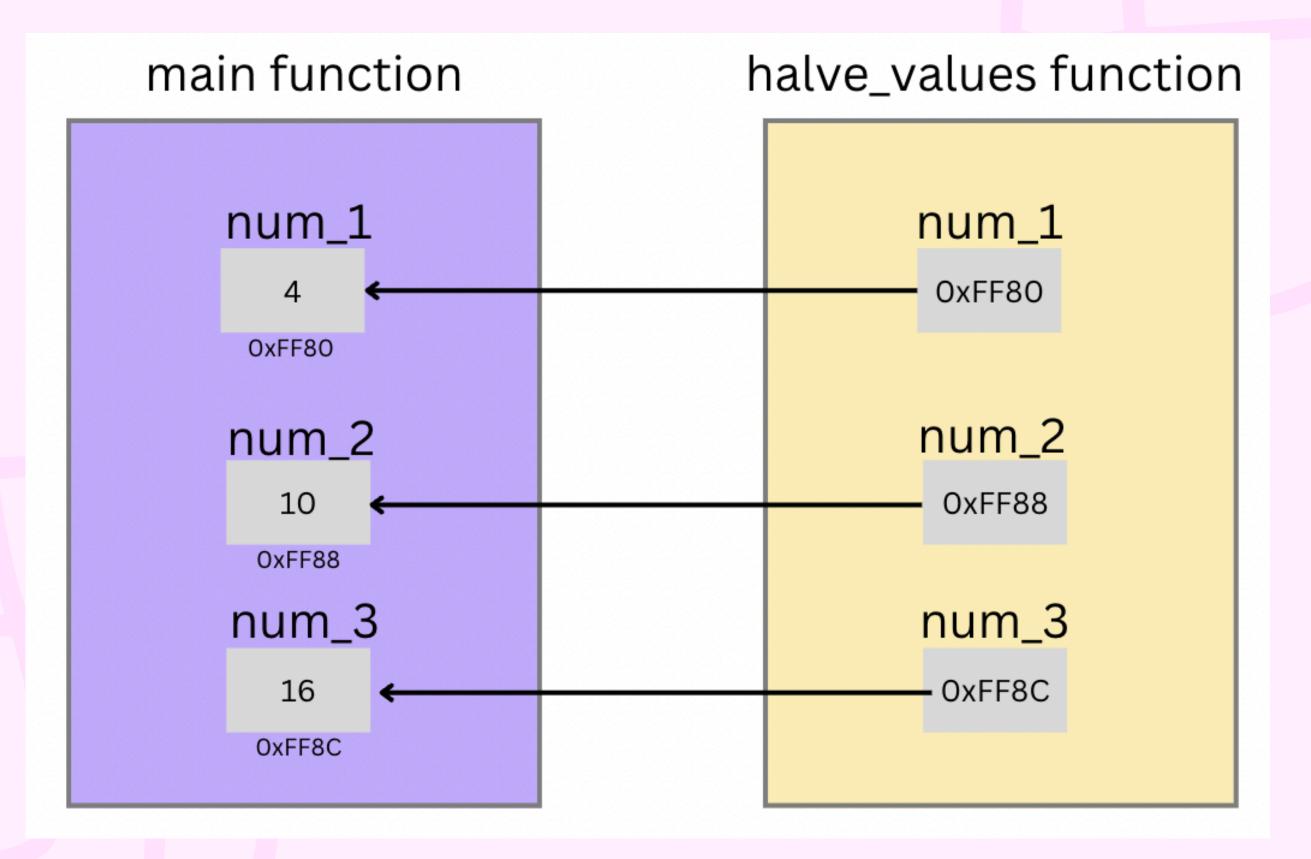
7.
$$q = p$$
;

$$8. *q = 8;$$

Address	Variable
0xFF84	Type: int Name: n Value: ???
0xFF88	Type: int * Name: p Value: ???
0xFF8C	Type: int * Name: q Value: ???

Coding with Functions and Pointers

Coding with Functions and Pointers



Struct Pointers

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Command Line Arguments

Command Line Arguments

./program good morning everyone!
int main(int argc, char *argv[])

	0	1	2	3	4	5	6	7	8	9
0		/	р	r	0	g	r	а	m	\0
1	g	0	0	d	\0					
2	m	0	r	n	i	n	g	\0		
3	е	V	е	r	У	0	n	е	!	\0

Command Line Arguments

Complete these activities in your groups

1 Sum of Command Line Arguments:

Write a C program that takes multiple integers as command-line arguments and prints their sum.

2 Count Characters in Command Line Arguments:

Write a C program that counts the total number of characters in all the command-line arguments passed to it.

3 Reverse Command Line Arguments:

Write a C program that prints all the command-line arguments passed to it in reverse order.

4 Check for Command Line Arguments:

Write a C program that checks if any command-line arguments were provided except for the program name. If none were provided, print a message indicating so; otherwise, print the number of arguments.

Lab Time!