



You have a captain's log due before 2022-09-25 (in 2 days)! Log it now!
(/captain_logs/971202/edit)

0x06. C - More pointers, arrays and strings

C

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⚙️ Weight: 1

📅 Ongoing second chance project - started Sep 21, 2022 6:00 AM, must end by Sep 24, 2022 6:00 AM

✅ An auto review will be launched at the deadline



Learning Objectives

At the end of this project, you are expected to be able to explain to anyone
(/rltoken/tkwwPs3MT3JT07FSsmXy-A), **without the help of Google**:

General

- What are pointers and how to use them
- What are arrays and how to use them
- What are the differences between pointers and arrays
- How to use strings and how to manipulate them
- Scope of variables



Copyright - Plagiarism

- You are tasked to come up with solutions for the tasks below yourself to meet with the above learning objectives.
- You will not be able to meet the objectives of this or any following project by copying and pasting someone else's work.
- You are not allowed to publish any content of this project.
- Any form of plagiarism is strictly forbidden and will result in removal from the program.

Requirements

General

- Allowed editors: `vi`, `vim`, `emacs`
- All your files will be compiled on Ubuntu 20.04 LTS using `gcc`, using the options `-Wall -Werror -Wextra -pedantic -std=gnu89`
- All your files should end with a new line
- A `README.md` file, at the root of the folder of the project is mandatory
- Your code should use the `Betty` style. It will be checked using `betty-style.pl` (<https://github.com/holbertonschool/Betty/blob/master/betty-style.pl>) and `betty-doc.pl` (<https://github.com/holbertonschool/Betty/blob/master/betty-doc.pl>)
- You are not allowed to use global variables
- No more than 5 functions per file
- You are not allowed to use the standard library. Any use of functions like `printf`, `puts`, etc... is forbidden
- You are allowed to use `_putchar` (https://github.com/holbertonschool/_putchar.c/blob/master/_putchar.c)
- You don't have to push `_putchar.c`, we will use our file. If you do it won't be taken into account
- In the following examples, the `main.c` files are shown as examples. You can use them to test your functions, but you don't have to push them to your repo (if you do we won't take them into account). We will use our own `main.c` files at compilation. Our `main.c` files might be different from the one shown in the examples
- The prototypes of all your functions and the prototype of the function `_putchar` should be included in your header file called `main.h`
- Don't forget to push your header file

Quiz questions

Great! You've completed the quiz successfully! Keep going! ([Show quiz](#))

Tasks



0. strcat (/)

mandatory

Write a function that concatenates two strings.

- Prototype: `char *_strcat(char *dest, char *src);`
- This function appends the `src` string to the `dest` string, overwriting the terminating null byte (`\0`) at the end of `dest` , and then adds a terminating null byte
- Returns a pointer to the resulting string `dest`

FYI: The standard library provides a similar function: `strcat` . Run `man strcat` to learn more.

```
julien@ubuntu:~/0x06$ cat 0-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code
 *
 * Return: Always 0.
 */
int main(void)
{
    char s1[98] = "Hello ";
    char s2[] = "World!\n";
    char *ptr;

    printf("%s\n", s1);
    printf("%s", s2);
    ptr = _strcat(s1, s2);
    printf("%s", s1);
    printf("%s", s2);
    printf("%s", ptr);
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 0-main.c 0-strcat.c -o 0-strcat
julien@ubuntu:~/0x06$ ./0-strcat
Hello
World!
Hello World!
World!
Hello World!
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `0-strcat.c`

☑ Done!

Help

Check your code

>_ Get a sandbox



1. strncat

Write a function that concatenates two strings.

- Prototype: `char *_strncat(char *dest, char *src, int n);`
- The `_strncat` function is similar to the `_strcat` function, except that
 - it will use at most `n` bytes from `src`; and
 - `src` does not need to be null-terminated if it contains `n` or more bytes
- Return a pointer to the resulting string `dest`

FYI: The standard library provides a similar function: `strncat`. Run `man strncat` to learn more.



```
01 julien@ubuntu:~/0x06$ cat 1-main.c
```

```
#include "main.h"
```

```
#include <stdio.h>
```

```
/**
```

```
 * main - check the code
```

```
 *
```

```
 * Return: Always 0.
```

```
 */
```

```
int main(void)
```

```
{
```

```
    char s1[98] = "Hello ";
```

```
    char s2[] = "World!\n";
```

```
    char *ptr;
```

```
    printf("%s\n", s1);
```

```
    printf("%s", s2);
```

```
    ptr = _strncat(s1, s2, 1);
```

```
    printf("%s\n", s1);
```

```
    printf("%s", s2);
```

```
    printf("%s\n", ptr);
```

```
    ptr = _strncat(s1, s2, 1024);
```

```
    printf("%s", s1);
```

```
    printf("%s", s2);
```

```
    printf("%s", ptr);
```

```
    return (0);
```

```
}
```

```
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 1-main.c 1-strncat.c -o 1-strncat
```

```
julien@ubuntu:~/0x06$ ./1-strncat
```

```
Hello
```

```
World!
```

```
Hello W
```

```
World!
```

```
Hello W
```

```
Hello WWorld!
```

```
World!
```

```
Hello WWorld!
```

```
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: [alx-low_level_programming](#)
- Directory: [0x06-pointers_arrays_strings](#)
- File: [1-strncat.c](#)

☒ Done!

Help

Check your code

>_ Get a sandbox



2. strncpy (/)

mandatory

Write a function that copies a string.

- Prototype: `char *_strncpy(char *dest, char *src, int n);`
- Your function should work exactly like `strncpy`

FYI: The standard library provides a similar function: `strncpy`. Run `man strncpy` to learn more.



```
julien@ubuntu:~/0x06$ cat 2-main.c
```

```
#include "main.h"
```

```
#include <stdio.h>
```

```
/**
```

```
 * main - check the code
```

```
 *
```

```
 * Return: Always 0.
```

```
 */
```

```
int main(void)
```

```
{
```

```
    char s1[98];
```

```
    char *ptr;
```

```
    int i;
```

```
    for (i = 0; i < 98 - 1; i++)
```

```
    {
```

```
        s1[i] = '*';
```

```
    }
```

```
    s1[i] = '\0';
```

```
    printf("%s\n", s1);
```

```
    ptr = _strncpy(s1, "First, solve the problem. Then, write the code\n", 5);
```

```
    printf("%s\n", s1);
```

```
    printf("%s\n", ptr);
```

```
    ptr = _strncpy(s1, "First, solve the problem. Then, write the code\n", 90);
```

```
    printf("%s", s1);
```

```
    printf("%s", ptr);
```

```
    for (i = 0; i < 98; i++)
```

```
    {
```

```
        if (i % 10)
```

```
        {
```

```
            printf(" ");
```

```
        }
```

```
        if (!(i % 10) && i)
```

```
        {
```

```
            printf("\n");
```

```
        }
```

```
        printf("0x%02x", s1[i]);
```

```
    }
```

```
    printf("\n");
```

```
    return (0);
```

```
}
```

```
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 2-main.c 2-strn  
cpy.c -o 2-strncpy
```

```
julien@ubuntu:~/0x06$ ./2-strncpy
```

```
*****  
*****
```

```
First*****  
*****
```

```
First*****  
*****
```

```
First, solve the problem. Then, write the code
```

```
First, solve the problem. Then, write the code
```



```
0x46 0x69 0x72 0x73 0x74 0x2c 0x20 0x73 0x6f 0x6c
0x76 0x65 0x20 0x74 0x68 0x65 0x20 0x70 0x72 0x6f
0x62 0x6c 0x65 0x6d 0x2e 0x20 0x54 0x68 0x65 0x6e
0x2c 0x20 0x77 0x72 0x69 0x74 0x65 0x20 0x74 0x68
0x65 0x20 0x63 0x6f 0x64 0x65 0x0a 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
0x2a 0x2a 0x2a 0x2a 0x2a 0x2a 0x2a 0x00
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: alx-low_level_programming
- Directory: 0x06-pointers_arrays_strings
- File: 2-strncpy.c

☒ Done!

Help

Check your code

>_ Get a sandbox

3. strcmp

mandatory

Write a function that compares two strings.

- Prototype: `int _strcmp(char *s1, char *s2);`
- Your function should work exactly like `strcmp`

FYI: The standard library provides a similar function: `strcmp`. Run `man strcmp` to learn more.




```
julien@ubuntu:~/0x06$ cat 3-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code
 *
 * Return: Always 0.
 */
int main(void)
{
    char s1[] = "Hello";
    char s2[] = "World!";

    printf("%d\n", _strcmp(s1, s2));
    printf("%d\n", _strcmp(s2, s1));
    printf("%d\n", _strcmp(s1, s1));
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 3-main.c 3-strcmp.c -o 3-strcmp
julien@ubuntu:~/0x06$ ./3-strcmp
-15
15
0
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: alx-low_level_programming
- Directory: 0x06-pointers_arrays_strings
- File: 3-strcmp.c

☒ Done!

[Help](#)

[Check your code](#)

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4. I am a kind of paranoid in reverse. I suspect people of plotting to make me happy

mandatory

Write a function that reverses the content of an array of integers.

- Prototype: void reverse_array(int *a, int n);
- Where n is the number of elements of the array



```

julien@ubuntu:~/0x06$ cat 4-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code
 * @a: an array of integers
 * @n: the number of elements to swap
 *
 * Return: nothing.
 */
void print_array(int *a, int n)
{
    int i;

    i = 0;
    while (i < n)
    {
        if (i != 0)
        {
            printf(", ");
        }
        printf("%d", a[i]);
        i++;
    }
    printf("\n");
}

/**
 * main - check the code
 *
 * Return: Always 0.
 */
int main(void)
{
    int a[] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 98, 1024, 1337};

    print_array(a, sizeof(a) / sizeof(int));
    reverse_array(a, sizeof(a) / sizeof(int));
    print_array(a, sizeof(a) / sizeof(int));
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 4-main.c 4-rev_
array.c -o 4-rev_array
julien@ubuntu:~/0x06$ ./4-rev_array
0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 98, 1024, 1337
1337, 1024, 98, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
julien@ubuntu:~/0x06$

```

Repo:

- GitHub repository: [alx-low_level_programming](#)



- Directory: 0x06-pointers_arrays_strings
- (/). File: 4-rev_array.c

✓ Done!

Help

Check your code

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5. Always look up

mandatory

Write a function that changes all lowercase letters of a string to uppercase.

- Prototype: `char *string_toupper(char *);`

```
julien@ubuntu:~/0x06$ cat 5-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code
 *
 * Return: Always 0.
 */
int main(void)
{
    char str[] = "Look up!\n";
    char *ptr;

    ptr = string_toupper(str);
    printf("%s", ptr);
    printf("%s", str);
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 5-main.c 5-string_toupper.c -o 5-string_toupper
julien@ubuntu:~/0x06$ ./5-string_toupper
LOOK UP!
LOOK UP!
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `5-string_toupper.c`

✓ Done!

Help

Check your code

>_ Get a sandbox



6. Expect the best. Prepare for the worst. Capitalize on what comes

mandatory

Write a function that capitalizes all words of a string.

- Prototype: `char *cap_string(char *)`;
- Separators of words: space, tabulation, new line, `,`, `;`, `.`, `!`, `?`, `"`, `(`, `)`, `{`, and `}`

```
julien@ubuntu:~/0x06$ cat 6-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code
 *
 * Return: Always 0.
 */
int main(void)
{
    char str[] = "Expect the best. Prepare for the worst. Capitalize on what comes.\nhello world! hello-world 0123456hello world\thello world.hello world\n";
    char *ptr;

    ptr = cap_string(str);
    printf("%s", ptr);
    printf("%s", str);
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 6-main.c 6-cap_string.c -o 6-cap
julien@ubuntu:~/0x06$ ./6-cap
Expect The Best. Prepare For The Worst. Capitalize On What Comes.
Hello World! Hello-world 0123456hello World Hello World.Hello World
Expect The Best. Prepare For The Worst. Capitalize On What Comes.
Hello World! Hello-world 0123456hello World Hello World.Hello World
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `6-cap_string.c`

☒ Done!

Help

Check your code

>_ Get a sandbox

7. Mozart composed his music not for the elite, but for everybody

mandatory



Write a function that encodes a string into 1337 (/rltoken/9v9KfpvWnL0GoMu5mozbug).

(/)

- Letters a and A should be replaced by 4
- Letters e and E should be replaced by 3
- Letters o and O should be replaced by 0
- Letters t and T should be replaced by 7
- Letters l and L should be replaced by 1
- Prototype: char *leet(char *);
- You can only use one if in your code
- You can only use two loops in your code
- You are not allowed to use switch
- You are not allowed to use any ternary operation

```
julien@ubuntu:~/0x06$ cat 7-main.c
#include "main.h"
#include <stdio.h>

/**
 * main - check the code for
 *
 * Return: Always 0.
 */
int main(void)
{
    char s[] = "Expect the best. Prepare for the worst. Capitalize on what come
s.\n";
    char *p;

    p = leet(s);
    printf("%s", p);
    printf("%s", s);
    return (0);
}
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 7-main.c 7-lee
t.c -o 7-1337
julien@ubuntu:~/0x06$ ./7-1337
3xp3c7 7h3 b3s7. Pr3p4r3 f0r 7h3 w0rs7. C4pi741iz3 0n wh47 c0m3s.
3xp3c7 7h3 b3s7. Pr3p4r3 f0r 7h3 w0rs7. C4pi741iz3 0n wh47 c0m3s.
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: alx-low_level_programming
- Directory: 0x06-pointers_arrays_strings
- File: 7-leet.c

☐ Done?

[Help](#)

[Check your code](#)

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Write a function that encodes a string using rot13 (/rltoken/YRxmNA7BnP6yZhl09TKX3A).

- Prototype: `char *rot13(char *)`;
- You can only use `if` statement once in your code
- You can only use two loops in your code
- You are not allowed to use `switch`
- You are not allowed to use any ternary operation



```
julien@ubuntu:~/0x06$ cat 100-main.c
```

```
#include "main.h"
```

```
#include <stdio.h>
```

```
/**
```

```
 * main - check the code
```

```
 *
```

```
 * Return: Always 0.
```

```
 */
```

```
int main(void)
```

```
{
```

```
    char s[] = "ROT13 (\\"rotate by 13 places\\", sometimes hyphenated ROT-13) is a simple letter substitution cipher.\\n";
```

```
    char *p;
```

```
    p = rot13(s);
```

```
    printf("%s", p);
```

```
    printf("-----\\n");
```

```
    printf("%s", s);
```

```
    printf("-----\\n");
```

```
    p = rot13(s);
```

```
    printf("%s", p);
```

```
    printf("-----\\n");
```

```
    printf("%s", s);
```

```
    printf("-----\\n");
```

```
    p = rot13(s);
```

```
    printf("%s", p);
```

```
    printf("-----\\n");
```

```
    printf("%s", s);
```

```
    return (0);
```

```
}
```

```
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 100-main.c 100-rot13.c -o 100-rot13
```

```
julien@ubuntu:~/0x06$ ./100-rot13
```

```
EBG13 ("ebgngr ol 13 cynprf", fbzrgvzrf ulcurangrq EBG-13) vf n fvzcyr yrggre fhofgv ghgvba pvcure.
```

```
EBG13 ("ebgngr ol 13 cynprf", fbzrgvzrf ulcurangrq EBG-13) vf n fvzcyr yrggre fhofgv ghgvba pvcure.
```

```
ROT13 ("rotate by 13 places", sometimes hyphenated ROT-13) is a simple letter substitution cipher.
```

```
ROT13 ("rotate by 13 places", sometimes hyphenated ROT-13) is a simple letter substitution cipher.
```

```
EBG13 ("ebgngr ol 13 cynprf", fbzrgvzrf ulcurangrq EBG-13) vf n fvzcyr yrggre fhofgv ghgvba pvcure.
```

```
EBG13 ("ebgngr ol 13 cynprf", fbzrgvzrf ulcurangrq EBG-13) vf n fvzcyr yrggre fhofgv ghgvba pvcure.
```

```
julien@ubuntu:~/0x06$
```



Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `100-rot13.c`

☒ Done!

Help

Check your code

>_ Get a sandbox

9. Numbers have life; they're not just symbols on paper

#advanced

Write a function that prints an integer.

- Prototype: `void print_number(int n);`
- You can only use `_putchar` function to print
- You are not allowed to use `long`
- You are not allowed to use arrays or pointers
- You are not allowed to hard-code special values




```
julien@ubuntu:~/0x06$ cat 101-main.c
#include "main.h"
```

```
/**
 * main - check the code
 *
 * Return: Always 0.
 */
```

```
int main(void)
{
```

```
    print_number(98);
    _putchar('\n');
    print_number(402);
    _putchar('\n');
    print_number(1024);
    _putchar('\n');
    print_number(0);
    _putchar('\n');
    print_number(-98);
    _putchar('\n');
    return (0);
}
```

```
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 _putchar.c 101-
main.c 101-print_number.c -o 101-print_numbers
```

```
julien@ubuntu:~/0x06$ ./101-print_numbers
```

```
98
```

```
402
```

```
1024
```

```
0
```

```
-98
```

```
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `101-print_number.c`

☒ Done!

Help

Check your code

>_ Get a sandbox

10. A dream doesn't become reality through magic; it takes sweat, determination and hard work

#advanced



(/)

Add one line to this code (https://github.com/holbertonschool/make_magic_happen/blob/master/magic.c), so that the program prints `a[2] = 98`, followed by a new line.

- You are not allowed to use the variable `a` in your new line of code
- You are not allowed to modify the variable `p`
- You can only write one statement
- You are not allowed to use `,`
- You are not allowed to code anything else than the line of expected line of code at the expected line
- Your code should be written at line 19, before the `;`
- Do not remove anything from the initial code (not even the comments)
- and don't change anything but the line of code you are adding (don't change the spaces to tabs!)
- You are allowed to use the standard library

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `102-magic.c`

✓ Done!

Help

Check your code

>_ Get a sandbox

11. It is the addition of strangeness to beauty that constitutes the romantic character in art

#advanced

Write a function that adds two numbers.

- Prototype: `char *infinite_add(char *n1, char *n2, char *r, int size_r);`
- Where `n1` and `n2` are the two numbers
- `r` is the buffer that the function will use to store the result
- `size_r` is the buffer size
- The function returns a pointer to the result
- You can assume that you will always get positive numbers, or `0`
- You can assume that there will be only digits in the strings `n1` and `n2`
- `n1` and `n2` will never be empty
- If the result can not be stored in `r` the function must return `0`



julien@ubuntu:~/0x06\$ cat 103-main.c

```
#include "main.h"
```

```
#include <stdio.h>
```

```
/**
```

```
 * main - check the code
```

```
 *
```

```
 * Return: Always 0.
```

```
 */
```

```
int main(void)
```

```
{
```

```
    char *n = "12345678924345743678235745756784776857856456858768767745867347345  
63456453743756756784458";
```

```
    char *m = "90347906634706972346829145693462596349586932465973246597623479563  
49265983465962349569346";
```

```
    char r[100];
```

```
    char r2[10];
```

```
    char r3[11];
```

```
    char *res;
```

```
    res = infinite_add(n, m, r, 100);
```

```
    if (res == 0)
```

```
    {
```

```
        printf("Error\n");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%s + %s = %s\n", n, m, res);
```

```
    }
```

```
    n = "1234567890";
```

```
    m = "1";
```

```
    res = infinite_add(n, m, r2, 10);
```

```
    if (res == 0)
```

```
    {
```

```
        printf("Error\n");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%s + %s = %s\n", n, m, res);
```

```
    }
```

```
    n = "9999999999";
```

```
    m = "1";
```

```
    res = infinite_add(n, m, r2, 10);
```

```
    if (res == 0)
```

```
    {
```

```
        printf("Error\n");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("%s + %s = %s\n", n, m, res);
```

```
    }
```

```
    res = infinite_add(n, m, r3, 11);
```

```
    if (res == 0)
```



```
(/) {
    printf("Error\n");
}
else
{
    printf("%s + %s = %s\n", n, m, res);
}
return (0);
}
```

```
julien@ubuntu:~/0x06$ gcc -Wall -pedantic -Werror -Wextra -std=gnu89 103-main.c 103-
infinite_add.c -o 103-add
julien@ubuntu:~/0x06$ ./103-add
123456789243457436782357457567847768578564568587687677458673473456345645374375675678
4458 + 90347906634706972346829145693462596349586932465973246597623479563492659834659
62349569346 = 1026935855590527160250648914502473732074433893247420143434908269091272
2437209719106353804
Error
Error
999999999 + 1 = 10000000000
julien@ubuntu:~/0x06$
```

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `103-infinite_add.c`

☐ Done?

12. Noise is a buffer, more effective than cubicles or booth walls

#advanced

Write a function that prints a buffer.

- Prototype: `void print_buffer(char *b, int size);`
- The function must print the content of `size` bytes of the buffer pointed by `b`
- The output should print 10 bytes per line
- Each line starts with the position of the first byte of the line in hexadecimal (8 chars), starting with `0`
- Each line shows the hexadecimal content (2 chars) of the buffer, 2 bytes at a time, separated by a space
- Each line shows the content of the buffer. If the byte is a printable character, print the letter, if not, print `.`
- Each line ends with a new line `\n`
- If `size` is 0 or less, the output should be a new line only `\n`
- You are allowed to use the standard library
- The output should look like the following example, and formatted exactly the same way:



--	--

Repo:

- GitHub repository: `alx-low_level_programming`
- Directory: `0x06-pointers_arrays_strings`
- File: `104-print_buffer.c`

☒ Done!

Help

Check your code

>_ Get a sandbox



