

CS2263 Assignment 2

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- Feb 16th 2024
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Question 1

For my **htags1** program, I used a while loop to read in 1 character from stdin with `getchar()`. From this character, I would determine if I was inside a tag or not by keeping track of a boolean variable that told me so. If I was in the proper opening tag (and not a comment) I would keep reading and printing to the terminal with `putchar()` until the closing bracket was met. I would also keep track if I was in a comment or not with a boolean variable & only printed characters if the condition of being in the tag & not in a comment was met.

Question 2

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

int main()
{
    int c, d;
    int opener = '<';
    bool inTag = false;
    bool in_comment = false;
    while ((c = getchar()) != EOF)
    {
        // inside tag
        if (c == '<')
        {
            d = getchar();
            // we know it is a comment
            if (d == '!')
            {
                in_comment = true;
            }
            else
            {
                // not in comment, add in the extra characters back
                inTag = true;
                putchar(opener);
                putchar(d);
                continue;
            }
        }
        // outside tag
        else if (c == '>')
        {
            // check if we are still in the comment
            if (in_comment)
            {
                in_comment = false;
                continue;
            }
            else
```

```
        {
            putchar(c);
            putchar('\n');
            inTag = false;
        }
    }
    // keep printing chars until either condition is false
    if (inTag && !in_comment)
    {
        putchar(c);
    }
}
}
```

Question 3

A similar approach was used for **htext1**, however, the character that would determine starting & stopping points was switched. So instead, I was looking for **>** for my start & **<** for my end.

I used the same iterative approach by reading and printing characters out one-by-one.

Question 4

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

int main()
{
    int c;
    bool inTag = false;
    bool outTag = false;
    while ((c = getchar()) != EOF)
    {
        // outside of the tag, also the start position
        if (c == '>')
        {
            outTag = true;
            continue;
        }
        // inside of a tag, also the stop position
        else if (c == '<')
        {
            inTag = true;
            outTag = false;
        }
        // keep printing until we reach another opening tag
        if (outTag)
        {
            putchar(c);
        }
    }
}
```

```
    }  
  }  
  putchar('\n');  
}
```

Question 5

htags1 Output 1

```
rinor@rinors-mac Assgn2 % ./htags1_3 < another_test.html  
<html>  
<b>  
</b>  
</html>  
rinor@rinors-mac Assgn2 %
```

htext1 Output 1

```
rinor@rinors-mac Assgn2 % ./htext1_2 < another_test.html  
TEST  
rinor@rinors-mac Assgn2 %
```

Question 6

htags1 Output 2

```
rinor@rinors-mac Assgn2 % ./htags1_3 < A2W2024.html
<html>
<head>
<meta http-equiv=Content-Type content="text/html; charset=unicode">
<meta name=Generator content="Microsoft Word 15 (filtered)">
<style>
</style>
</head>
<body lang=EN-CA link=blue vlink=purple style='word-wrap:break-word'>
<div class=WordSection1>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
</b>
</p>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
</b>
</p>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
</b>
</p>
<p class=MsoNormal style='text-align:justify'>
<span lang=EN-US
style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoNormal>
<u>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
<b>
</b>
</span>
</u>
</p>
<p class=MsoNormal>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
```

```
</p>
<p class=MsoNormal>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
<a href="https://www.educba.com/types-of-tags-in-html/">
<span
style='text-decoration:none'>
</span>
</a>
</span>
</p>
<p class=MsoNormal>
<span style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:0cm;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<i>
<span
style='font-family:"Times New Roman",serif'>
</span>
</i>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<span
lang=EN-US style='font-family:"Courier New"'>
</span>
<span lang=EN-US
style='font-family:"Times New Roman",serif'>
<b>
</b>
</span>
<span lang=EN-US style='font-family:"Courier New"'>
</span>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
<a
href="https://linuxcommand.org/lc3_lts0070.php">
</a>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:18.0pt;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
```

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```

style='font-family:"Courier New"'>
</span>
</b>
<span lang=EN-US
style='font-family:"Times New Roman",serif'>
</span>
<b>
<span lang=EN-US style='font-family:"Courier New"'>
</span>
</b>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<b>
<span lang=EN-US style='font-family:"Courier New"'>
</span>
</b>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<span lang=EN-US style='font-family:"Courier New"'>
</span>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<span
lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<span
lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<span style='font-family:"Times New Roman",serif'>
<u>
</u>
</span>
</p>

```

`<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-right:0cm;margin-bottom:0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-height:12.0pt'>`
``
``
`<span`
`lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>`
``
``
``
`</p>`

`<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-right:0cm;margin-bottom:0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-height:12.0pt'>`
``
``
`<span`
`lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>`
``
``
`<u>`
`</u>`
``
`</p>`

`<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-right:0cm;margin-bottom:12.0pt;margin-left:43.1pt;text-indent:-18.0pt;line-height:12.0pt'>`
`<span`
`lang=EN-US style='font-family:"Times New Roman",serif'>`
``
`<span`
`lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>`
``
``
`
`
`
`
``
`</p>`

`<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-right:0cm;margin-bottom:0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-height:12.0pt'>`
``
``
`<span`
`lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>`
``
``
``

```
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
<span
lang=EN-US style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<span style='font-family:"Times New Roman",serif'>
</span>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;text-indent:0cm;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;text-indent:0cm;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoNormal>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
</div>
</body>
</html>
rinor@rinors-mac Assgn2 %
```

htext1 Output 2

```
rinor@rinors-mac Assgn2 % ./htext1_2 < A2W2024.html
```

CS 2263

Assignment 2

Due: Feb. 21, 2024 (before midnight)

Assignments
are to be completed individually (not as a group work).

Sample
reference: <https://www.educba.com/types-of-tags-in-html/>

Processing strings

Develop and test two utility programs called `htags1` and `htext1` to process an HTML file. The `htags1` program should print all HTML tags, except the HTML comment tags `<!-- -->`, one per line of output. The `htext1` program should print all plain text extracted from the source HTML file, i.e. just the text, no tags. The utility programs should read from standard input and may use the input redirection to access a file. (This means that your program code should read from standard input, and NOT perform any file operations, like `fopen()` etc. You may capture the output from your program using output redirection, or you may just output to the

terminal window and print the screen, your choice.)

Assume an

HTML tag is any text enclosed between `<` and `>`, including these delimiter characters. The end tags, like `</p>`, are valid tags. For example, in a sample input HTML file containing:

```
<body lang=EN-CA link=blue vlink=&quot;#954F72&quot;>
<div class=WordSection1>
<p class=MsoNormal><b><span lang=EN-US
style='font-size:14.0pt;font-family: &quot;Times New
Roman&quot;,serif'>CS
2263</span></b></p>
<p class=MsoNormal><b><span lang=EN-US
style='font-size:14.0pt;font-family: &quot;Times New
Roman&quot;,serif'>Assignment 2</span></b></p>
```

we find the following tags:

```
<body lang=EN-CA link=blue vlink=&quot;#954F72&quot;>
<div class=WordSection1>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family: &quot;Times New
Roman&quot;,serif'>
</span>
</b>
</p>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family: &quot;Times New
Roman&quot;,serif'>
</span>
</b>
</p>
```

and the plain text in this sample input is:

CS 2263 Assignment 2

When outputting the plain text you may keep new line characters present in the input, or you may replace them with space characters.

The data to your program should be read from standard input (use the input redirection to read from the HTML file) using the `getchar()` function. The output should be done using the `putchar()` function and/or using the `printArr()` function from Assignment

program and the screenshots of the terminal window (or the contents of the file with the redirected program output) showing the test runs. In case of multiple submission the most recent item in your Dropbox will be graded.

rinor@rinors-mac Assgn2 %

Question 7

This [HTML](#) file is from the Assignment 1 D2L page for CS2263.

htags1 Output 3

```
rinor@rinors-mac Assgn2 % ./htags1_3 < A1W2024.html
<html>
<head>
<meta http-equiv=Content-Type content="text/html; charset=unicode">
<meta name=Generator content="Microsoft Word 15 (filtered)">
<style>
</style>
</head>
<body lang=EN-CA style='word-wrap:break-word'>
<div class=WordSection1>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
</b>
</p>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
</b>
</p>
<p class=MsoNormal>
<b>
<span lang=EN-US style='font-size:14.0pt;font-family:
"Times New Roman",serif'>
</span>
```

```

</b>
</p>
<p class=MsoNormal style='text-align:justify'>
<span lang=EN-US
style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:0cm;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
<u>
<b>
</b>
</u>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
<br>
</span>
<i>
<span style='font-family:"Times New Roman",serif'>
</span>
</i>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
style='font-family:"Times New Roman",serif'>
<i>
</i>
<i>
</i>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:7.1pt;margin-bottom:.0001pt;text-indent:0cm;

```



```
12.0pt;margin-left:43.1pt;text-indent:-18.0pt;line-height:12.0pt'>
<span
style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
<br>
<br>
<br>
<span style='font-family:"Courier New"'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
<span style='font-family:"Courier New"'>
</span>
<i>
</i>
<i>
</i>
<br>
<u>
</u>
<br>
<br>
<span style='font-family:"Courier New"'>
</span>
<span
style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
<br>
```

```
<span
style='font-family:"Courier New"'>
</span>
<span
style='font-family:"Courier New"'>
</span>
<strong>
<span style='font-family:Times'>
</span>
</strong>
<span style='font-family:"Courier New"'>
</span>
<br>
<br>
<span style='font-family:"Courier New"'>
</span>
<span
style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
12.0pt;margin-left:43.1pt;text-indent:-18.0pt;line-height:12.0pt'>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
<br>
<span
style='font-family:"Courier New"'>
</span>
<span style='font-family:"Courier New"'>
</span>
<span
style='font-family:"Times New Roman",serif'>
</span>
<span style='font-family:
"Courier New"'>
</span>
<strong>
<span
style='font-family:Times'>
</span>
</strong>
<span
style='font-family:"Courier New"'>
</span>
<span style='font-family:"Courier New"'>
```

```
</span>
<span style='font-family:"Courier New"'>
</span>
<span style='font-family:"Courier New"'>
</span>
<br>
<br>
<span style='font-family:"Courier New"'>
</span>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
12.0pt;margin-left:43.1pt;text-indent:-18.0pt;line-height:12.0pt'>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:43.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
<br>
<i>
<u>
</u>
</i>
<i>
<u>
</u>
</i>
<i>
<u>
</u>
</i>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:79.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:79.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
<i>
</i>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
```

```

right:0cm;margin-bottom:
0cm;margin-left:79.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:79.1pt;margin-bottom:.0001pt;text-indent:-18.0pt;line-
height:
12.0pt'>
<span style='font-size:7.0pt;font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;margin-
right:0cm;margin-bottom:
0cm;margin-left:0cm;margin-bottom:.0001pt;text-indent:0cm;line-
height:12.0pt'>
<span
lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;text-indent:0cm;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
<i>
</i>
</span>
</p>
<p class=MsoBodyTextIndent style='margin-top:6.0pt;text-indent:0cm;line-
height:
12.0pt'>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
<b>
<u>
<span style='color:red'>
</span>
</u>
</b>
</span>
</p>
<p class=MsoNormal>
<span lang=EN-US style='font-family:"Times New Roman",serif'>
</span>
</p>
</div>
</body>
</html>
rinor@rinors-mac Assgn2 %

```

htext1 Output 3

```
rinor@rinors-mac Assgn2 % ./htext1_2 < A1W2024.html
```

CS 2263

Assignment 1

Due: January 29, 2024 (before midnight)

Assignments are to be completed individually (not as a group work).

getchar(),
putchar(), functions

On this assignment you are asked to use the character input/output operations (getchar(), putchar()) rather than formatted input output (please do not use scanf, printf).

1.

Exercise 1 (display a prompt using putchar())

Write a function that accepts a character array of length n and prints all n

characters from this array one character at a time using putchar() to the console. Then use this function in a program that prints the Hello World message.

```
void printArr(char a[], int n)
```

2.

Exercise 2 (print an int

with all digits reversed using putchar())

Write a function that accepts an unsigned integer and prints this value one character at a time, and in the reversed order, to the console. Then use this function in a program to print an integer value 2263 in the reversed order as 3622.

```
void printReversed(int n) &nbsp;&nbsp;&nbsp;
```

[illegible]

Exercise 3 (convert char digits into int)

Write a function that accepts a character array representing digits of an unsigned integer with its digits stored in the reversed order and returns the integer value represented by these characters. For example, the function `convertInt` when called on the array `char a[]={'3','2','1'}` would return integer value 123.

Parameter n holds the number of digits stored in the array.

```
int convertInt(char a[], int n) &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
```

4.

Exercise 4 (add two numbers represented as reversed strings)

Write a function that accepts two character arrays representing digits of two unsigned

integer with their digits stored in the reversed order, and returns the integer

value representing the sum of these two integers. For example, the function `addReversedInt` when called on the array `char a[]={ '3', '2', '1' }` and `char b[]={ '6', '5', '4' }` would return integer value 579. Parameters `n` and `m`

hold the number of digits stored in arrays a[]

and `b[]` respectively. Use the

```
function form Exercise 3 to performs string to integer conversions.
```

```
int addReversedInt(char a[], int n,  
char b[], int m) &nbsp;  &nbsp; &nbsp;   
```

5.

Exercise 5 (simple calculator working on integer numbers entered with digits reversed)

Write a program that prompts the user for two unsigned integer numbers and prints the sum of these two numbers. The numbers are to be entered with their

digits reversed and the result should be printed with the digits reversed as

well. So, for example, if the user wanted to add twenty five to one hundred twenty three, they would enter 321 for the first number, 52 for the second and get the result 841 representing $123+25=148$. Use the functions developed for exercises 1, 2, 3 and 4. Your program should:

a. `Display a prompt (use the function from Exercise 1),`

b. `Read characters from the console (one at a time, using getchar())`

`representing the two integers to be added (assume maximum of 10 digits for each number, no spaces, each number on the input is terminated by the \n character), and store them in two arrays,`

`Add the two numbers using the function developed for Exercise 4,`

c. `Print the result of adding the two numbers entered by the user, with the`

`digits printed in the reversed order (use the function from Exercise 2 for printing).`

d. `Print the result of adding the two numbers entered by the user, with the`

`digits printed in the reversed order (use the function from Exercise 2 for printing).`

`Submit a`

`SINGLE PDF FILE with your Assignment Report and it should include: cover`

`page , headings for each exercise, the source code of each completed`

`program and the screenshots showing couple test runs for each exercise. When testing functions in exercises 1, 2, 3 and 4 you may need to write a driver program.`

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`rinor@rinors-mac Assgn2 %`