



Chapters

1	2	3	4
5	6	7	8
9	10	11	12
13			

Chapter 9

- [Theory \(8\)](#)
- [Programming exercises \(3/3\)](#)
- [Quizzes \(6/6\)](#)
- [Open exercises](#)

Course

- [Table of contents](#)
- [Extra materials](#)
- [Bulletin board](#)
- [My corner](#)

Communication

- [Forum](#)
- [Conference](#)

Tutoring

- [Ask a tutor](#)

Handling files

Feedback [Ask a tutor](#)

Please use this option only if you find any issues or mistakes in the content. If you have comments or questions regarding the subject matter, then please use "Ask a tutor".

 Page **3/3**

- (1) Writing into a file done
- (2) Reading from a file done
- (3) Handling files done

Send



The files "mata.txt" and "matb.txt" contain integer matrices of size 10 x 10. Write a program that calculates the sum of the matrices in a new matrix. The resulting sum matrix shall be saved to the file "sum usr".

The matrix elements are separated by spaces and newlines. For example:

```
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
... ... ...
... ... ...
91 92 93 94 95 96 97 98 99 100
```

The sum matrix must be saved in the same format. At the end, the program prints a message indicating successful completion.

Example output:

```
The sum of the matrices has been calculated into the file sum usr.
```

The verification of program output does not account for whitespace characters like "\n", "\t" and " "

program.c

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     char *mata_txt = "mata.txt";
6     char *matb_txt = "matb.txt";
7     char *sum = "sum usr";
8
9     int i;
10    int j;
11    int mata[10][10];
12    int matb[10][10];
13    int summ[10][10];
14
15    /* matrix a */
16    FILE *read1;
17    read1 = fopen("mata.txt", "r");
18
19    if ((read1 = fopen("mata.txt", "r")) == NULL)
20    {
21        printf("Failed to open the file %s\n", mata_txt);
22        return 0;
23    }
24    else
25    {
26        for (i = 0; i < 10; i++)
27        {
28            for (j = 0; j < 10; j++)
29            {
30                if (j == 10)
31
```

Position: Ln 16 Ch 17

Full screen (Esc to exit)

Reset

Save Run