* 1. Exercises for Laboratory Work 13

The topic of the laboratory work 13: files.

The aim of the laboratory work 6: to write a program in C++ using files.

1. Given the file f, whose components are real numbers. Find: the sum of the components of the file f.

2. Given the file f, whose components are real numbers. Find: the last component of the file.

3. Given the f, whose components are real numbers. Find: the smallest of the values ​​of the components.

4. Given the file f. Find: the biggest of the values ​​of the components.

5. Given the file f, whose components are real numbers. Find: the sum of the negative components of the file f.

6. Given the file f, whose components are real numbers. Find: the sum of the odd components of the file f.

7. Given the file f, whose components are real numbers. Find: the sum of the odd and negative components of the file f.

8. Given the file f, whose components are real numbers. Find: the last component of the file.

9. Given the f, whose components are real numbers. Find: the smallest of the odd values ​​of the components.

10. Given the file f. Find: the biggest of the odd values ​​of the components.

11. Given the file f, whose components are real numbers. Find: the sum of the odd negative components of the file f.

12. Given the file f, whose components are real numbers. Find: the product of the odd components of the file f.

13. Given the file f, whose components are real numbers. Find: the product of positive components of the file f.

14. Given the file f, whose components are real numbers. Find: the last component and the first component of the file.

15. Given the file f, whose components are real numbers. Find: the smallest positive component of the file.

16. Given the file f. Find: the biggest of the positive values ​​of file components.

17. Given the file f, whose components are real numbers. Find: the product of the negative components of the file f.

18. Given the file f, whose components are real numbers. Find: the sum of even components of the file f.

19. Given the file f, whose components are real numbers. Find: the sum of the even and negative components of the file f.

20. Given the file f, whose components are real numbers. Find: the last component of the file and the sum of all file components.

13.4Examples

Example 1.

Create a file f, whose components are real numbers.

Solution:

int main()

{

string name;

int n, x;

cin >> name;

cin >> n;

ofstream myfile(name);

for (int i = 0; i < n; i++) {

cin >> x;

myfile << x << endl;

}

return 0;

}

Run the program and then find on your computer file example.txt and see what this file contains.

Example 2.

Given the file f, whose components are real numbers. Find: the sum of even components of the file f.

Solution:

int main()

{

int s, x;

s = 0;

ifstream myfile("example.txt");

while (myfile >> x)

{

s += x;

}

cout << s;

getchar();

return 0;

}

Run the program and then find on your computer file example.txt and see what this file contains.

Example 3.

Given the file f, whose components are real numbers. Find: the last component of the file and the sum of all file components.

Solution:

int main()

{

int x;

ifstream myfile("example.txt");

while (myfile >> x)

{

}

cout << x;

getchar();

return 0;

}

Run the program and then find on your computer file example.txt and see what this file contains.