

Problem 1. Dealing with a file

Make a program that will read integer numbers the user introduces until the user enters -1. The numbers must be written to the file “numbers.txt”. The program must close the file and then open it again for reading. The program must read the numbers from the file, display them on the screen, and close the file again.

You must use the next template:

```
//DO NOT MODIFY THIS SECTION
#include <iostream>
#include <fstream>
using namespace std;

int main()
{
    ofstream ofile;
    ifstream ifile;
    int number;
    cout << "Enter positive integers. When done, enter -1\n";
    ofile.open( "numbers.txt" );
//WRITE YOUR CODE FROM HERE
```

Example of execution:

```
Enter positive integers. When done, enter -1
4
2
567
8
-1
Numbers from file are:
4
2
567
8
Process returned 0 (0x0)    execution time : 9.924 s
```

```
Problem 1 > Problem 1 > C++ main.cpp > main()

4 using namespace std;
5
6 int main()
7 {
8     ofstream ofile;
9     ifstream ifile;
10    int number;
11    cout << "Enter positive integers. When done, enter -1\n";
12    ofile.open( "numbers.txt" );
13    //WRITE YOUR CODE FROM HERE
14
15    if (!ofile)
16    {
17        cout << "Error opening file for writing!\n";
18        return 1;
19    }
20
21    do
22    {
23        cin >> number;
24        if (number != -1)
25        {
26            ofile << number << endl;
27        }
28    } while (number != -1);
29
30    ofile.close();
31
32    cout << "\n-1 Has been entered. File closed.\n";
33
34    ifile.open("numbers.txt");
35    if (!ifile)
36    {
37        cout << "Error opening file for reading!\n";
38        return 1;
39    }
40
41    cout << "\nReading numbers from file:\n";
42    while (ifile >> number)
43    {
44        cout << number << "\n";
45    }
46    ifile.close();
47
48    return 0;
49 }
50
51
```

Line: 47 Col: 19

```
Enter positive integers. When done, enter -1
4
2
567
8
-1

-1 Has been entered. File closed.

Reading numbers from file:
4
2
567
8
Program ended with exit code: 0
```

//DO NOT MODIFY THIS SECTION

#include <iostream>

#include <fstream>

using namespace std;

```
int main()
{
    ofstream ofile;
    ifstream ifile;
    int number;
    cout << "Enter positive integers. When done, enter -1\n";
    ofile.open( "numbers.txt" );
//WRITE YOUR CODE FROM HERE

    if (!ofile)
    {
        cout << "Error opening file for writing!\n";
        return 1;
    }

    do
    {
        cin >> number;
        if (number != -1)
        {
            ofile << number << endl;
        }

    } while (number != -1);
```

```
ofile.close();
```

```
cout << "\n-1 Has been entered. File closed.\n";
```

```
ifile.open("numbers.txt");
```

```
if (!ifile)
```

```
{
```

```
    cout << "Error opening file for reading!\n";
```

```
    return 1;
```

```
}
```

```
cout << "\nReading numbers from file:\n";
```

```
while (ifile >> number)
```

```
{
```

```
    cout << number << "\n";
```

```
}
```

```
ifile.close();
```

```
return 0;
```

```
}
```