

## PROGRAMME EXAMPLE

### BUBBLE SORTING WITH THE USE OF TEXT FILES

```
#include <iostream>
#include <fstream>
using namespace std ;

main()
{

    // FILE VARIABLE DECLARATIONS
    fstream plik, plik2 ;

    int ile = 0 , k , ilosc=0 , j , sch, maks, tab[1000] ;

    // READING DATA FROM THE FILE TO THE ARRAY AND COUNTING THEIR NUMBER
    plik.open ("odczyt.txt" , ios::in) ; // "in" - readable file

    while ( plik >> tab[ile])
    {
        ile ++ ;
    }
    plik.close();

    // BUBBLE SORTING IN THE ARRAY
    for(int i=0;i<ile;i++)
    for(int j=0;j<ile-i-1;j++)
    if(tab[j]>tab[j+1])
    {
        sch = tab[j];
        tab[j] = tab[j+1];
        tab[j+1] = sch;
    }

    // PRINT ON SCREEN AFTER SORTING
    for(int k=0;k<ile;k++)
    cout << tab[k] << endl ;

    // SAVING THE SORTED NUMBERS TO A NEW FILE
    plik2.open("posort.txt" , ios::out) ; // "out" - file to be saved

    for(k=0;k<ile;k++)
    plik2<<tab[k] << endl ;
    plik2.close();

    system("PAUSE") ;
    return 0 ;

}
```