

Andres Quintero

**Source code**

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

class selectionSort{
public:
    int* Ary;
    int N;

    void getN(ifstream& inFile){
        int count = 0;
        while(!inFile.eof()){
            int value;
            inFile >> value;
            count++;
        }
        N = count;
        inFile.close();
    }

    void loadAry(ifstream& inFile){
        Ary = new int[N];

        int input;
        for(int i = 0; i < N; i++){
            inFile >> input;
            Ary[i] = input;
        }
    }

    void selectionSorting(){
        int position = 0;

        while(position < N){
            for(int i = position+1; i < N; i++){
                if(Ary[i] < Ary[position]){
                    int temp = Ary[position];
                    Ary[position] = Ary[i];
                    Ary[i] = temp;
                }
            }
            position++;
        }
    }

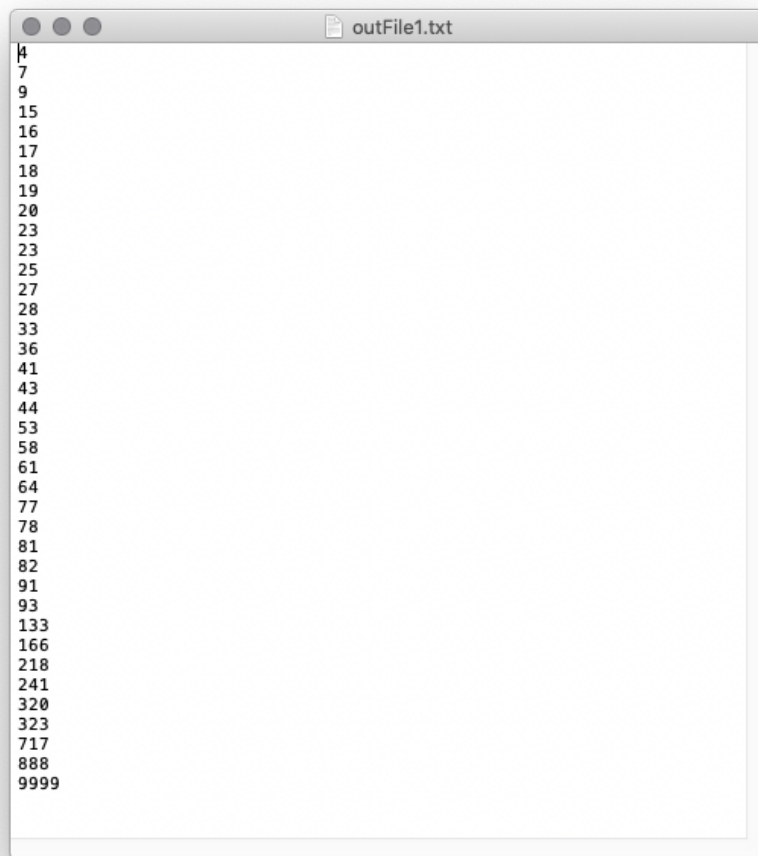
    void printAry(ofstream& outFile){
        for(int i=0; i < N; i++){
            outFile << Ary[i] << endl;
        }
    }
};
```

```
int main(int argc, char* argv[]){
    ifstream inFile(argv[1]);
    ofstream outFile(argv[2]);
    selectionSort S;

    S.getN(inFile);
    inFile.open(argv[1]);
    S.loadAry(inFile);
    S.selectionSorting();
    S.printAry(outFile);

    inFile.close();
    outFile.close();
    return 0;
}
```

**outFile**



A screenshot of a text editor window titled "outFile1.txt". The window displays a list of numbers, each on a new line. The numbers are: 4, 7, 9, 15, 16, 17, 18, 19, 20, 23, 23, 25, 27, 28, 33, 36, 41, 43, 44, 53, 58, 61, 64, 77, 78, 81, 82, 91, 93, 133, 166, 218, 241, 320, 323, 717, 888, and 9999.

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