

```
1 #include <iostream>
2 #include <fstream>
3 #include <filesystem>
4 #include <string>
5 #include "myfile.hpp"
6
7 OutMyFile::OutMyFile(const std::filesystem::path path) {
8     file_path = path;
9 }
10
11 void OutMyFile::out(const int n, const double *val) const {
12     std::ofstream outfile(file_path);
13
14     for (int i = 0; i < n; ++i) {
15         outfile << val[i] << std::endl;
16     }
17
18     return;
19 }
20
21 InMyFile::InMyFile(const std::filesystem::path path) {
22     file_path = path;
23     n = getNum();
24
25     std::ifstream infile(file_path);
26     if (!infile.is_open()) {
27         std::cout << "cannot open" << std::endl;
28         return;
29     }
30
31     arr = new double[n];
32     for (int i = 0; i < n; ++i) {
33         infile >> arr[i];
34     }
35     infile.close();
36 }
37
38 InMyFile::~InMyFile() {
39     delete[] arr;
40 }
41
42 int InMyFile::getNum() const{
43     std::ifstream infile(file_path);
44
45     int count = 0;
46     std::string line;
47
48     while (std::getline(infile, line)) ++count;
49
50     infile.close();
51
52     return count;
53 }
54
55 double InMyFile::operator() (const int m) const {
56     if (m < 0 || n <= m) {std::cout << "index error" << std::endl;}
57     return arr[m];
58 }
59
```