

```
1 #include <iostream>
2 #include <filesystem>
3
4 #ifndef MYFILE_HPP
5 #define MYFILE_HPP
6
7 class OutMyFile {
8
9     public:
10         OutMyFile(const int n, const std::filesystem::path &path);
11
12     public:
13         void out(const double * const val) const;
14
15         void out(const int * const index, const double * const val) const;
16         void out(const double * const xval, const double * const yval) const;
17
18     private:
19         const std::filesystem::path file_path;
20         const int N;
21 };
22
23 class InMyFile {
24
25     public:
26         InMyFile(const std::filesystem::path &path);
27         ~InMyFile();
28
29     public:
30         inline bool check_index(const int idx) const;
31         int getNum() const;
32         double operator() (const int m) const;
33
34     private:
35         const std::filesystem::path file_path;
36         const int N;
37         double *arr;
38
39 };
40
41 #endif
42
```