```
1 #include <iostream>
 2 #include <fstream>
 3 #include <filesystem>
 4 #include <string>
 5 #include "myfile.hpp"
 7 OutMyFile::OutMyFile(const int n, const std::filesystem::path &path) : N(n),
   file path(path) {
     return;
 8
9 }
10
11 void OutMyFile::out(const double * const val) const {
13
     std::ofstream outfile(file_path);
     outfile << std::setprecision(std::numeric_limits<double>::max_digits10)
14
15
             << std::showpoint;
16
17
     for (int i = 0; i < N; ++i) {
       outfile << val[i] << std::endl;</pre>
18
     }
19
20
21
     return;
22 }
23
24 void OutMyFile::out(const double * const xval, const double * const yval)
   const {
25
     std::ofstream outfile(file path);
26
     outfile << std::setprecision(std::numeric_limits<double>::max_digits10)
27
28
             << std::showpoint;
29
30
     for (int i = 0; i < N; ++i) {
       outfile << xval[i] << " " << yval[i] << std::endl;</pre>
31
32
33
34
     return;
35 }
36
37 InMyFile::InMyFile(const std::filesystem::path &path) :file path(path),
  N(getNum()) {
38
39
     std::ifstream infile(file_path);
40
     if (!infile) {
41
42
       std::cout << "cannot open" << std::endl;</pre>
43
       return;
44
     }
45
46
     arr = new double[N];
47
     for (int i = 0; i < N; ++i) {
48
       infile >> arr[i];
49
50
     infile.close();
51
52
     return;
53 }
54
55 InMyFile::~InMyFile() {
     if (arr != nullptr) {
```

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```
57
       delete[] arr;
     }
58
59
    return;
60 }
62 inline bool InMyFile::check_index(const int idx) const {
63
     if ((idx < 0) \mid | (N \le idx)) return false;
64
     return true;
65 }
66
67 int InMyFile::getNum() const{
68
69
     std::ifstream infile(file_path);
70
71
     int count = 0;
     std::string line;
72
73
    while (std::getline(infile, line)) ++count;
74
75
     infile.close();
76
77
78
     return count;
79 }
80
81 double InMyFile::operator() (const int idx) const {
     if(!check_index(idx)) {
82
       std::cout << "error: out of index" << std::endl;</pre>
83
84
       return 0;
85
     }
86
     return arr[idx];
87 }
88
```

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