Filesystem Library

- Introduced in C++17.
- Used to perform operations on:
 - Paths
 - Regular files
 - Directories
- Inspired in boost::filesystem.

```
directory_iterator
1 #include <filesystem>
2 namespace fs = std::filesystem;
4 int main() {
fs::create_directories("sandbox/a/b");
   std::ofstream("sandbox/file1.txt");
6
  std::ofstream("sandbox/file2.txt");
   for (auto& p : fs::directory_iterator("sandbox")) {
      std::cout << p.path() << '\n';
9
   fs::remove_all("sandbox");
12 }
  Output:
"sandbox/a"
2 "sandbox/file1.txt"
3 "sandbox/file2.txt"
```

filename_part1

```
#include <filesystem>
2 namespace fs = std::filesystem;
4 int main() {
    cout << fs::path("/foo/bar.txt").filename() << '\n'</pre>
         << fs::path("/foo/.bar").filename() << '\n'
6
         << fs::path("/foo/bar/").filename() << '\n'
7
         << fs::path("/foo/.").filename() << '\n'
8
         << fs::path("/foo/..").filename() << '\n';
10 }
  Output:
"bar.txt"
2 ".bar"
3 ""
4 "."
5 ".."
```

extension_part1

Output:

```
1 "bar"
2 "00000"
3 ".bar"
```

8 }

exists

Output: