

### C++ code 9.4.18: Sub-problem (9-4.d): snippet in `main()` → [GitLab](#)

```
2  double c = 1.0;
3  double T = 7.0;
4  unsigned int N = 100;
5  unsigned int m = 2000;
6  Eigen::MatrixXd R = waveLeapfrogABC(c, T, N, m);
7  Eigen::VectorXd t = Eigen::VectorXd::LinSpaced(m + 1, 0.0, T);
8
9  // print the data, e.g. to a .csv file, in a suitable way
10 std::ofstream solution_file;
11
12 solution_file.open("solution.csv");
13 Eigen::MatrixXd tR(m + 1, N + 2);
14 tR.col(0) = t;
15 tR.block(0, 1, m + 1, N + 1) = R;
16 solution_file << tR.format(CSVFormat) << std::endl;
17 solution_file.close();
18 std::cout << "Generated solution.csv" << std::endl;
19 systemcall::execute(
20     "python3 ms_scripts/viswave.py solution.csv solution.eps");
```