

C++11 code 11.3.9: Sub-problem (11-3.g): excerpt from `main()` with the code requested in the sub-problem → [GitLab](#)

```
2  unsigned int N = 600;
3  unsigned int M = 200;
4  double h = 12.0 / N;
5  Eigen::VectorXd x =
6      Eigen::VectorXd::LinSpaced(N, -6.0 + 0.5 * h, 6.0 - 0.5 * h);
7
8  std::ofstream file;
9
10 // without reaction term
11 Eigen::VectorXd ufinal = solveSineConsLaw(&sineClawRhs, N, M);
12 file.open("ufinal.csv");
13 file << x.transpose().format(CSVFormat) << std::endl;
14 file << ufinal.transpose().format(CSVFormat) << std::endl;
15 file.close();
16
17 std::cout << "Generated ufinal.csv" << std::endl;
18 systemcall::execute("python3 scripts/plot.py ufinal.csv ufinal.eps");
```