This is the source code for the AAAI-2021 paper: FACS: Fast code-based Algorithm for Coalition Structure Generation

To run the code with a test example with 20 agents for the Exponential distribution

> java -classpath .;../commons-math-2.2.jar solveRandomProblems/SolverRandomProblems 20 1

You need to position yourself in the folder: FACS/release\_september\_2020/packages

The considered value distributions are:

1 > Exponential

2 > Agent-based Normal

3 > Uniform

4 > Beta

5 > Agent-based Uniform

6 > Normal

7 > NDCS

8 > Modified Normal

9 > Modified Uniform

10 > F

11 > Weibull

12 > Chi-square

13 > Gama

To run the code with a certain number of agents na for a certain value distribution vd:

> java -classpath .;../commons-math-2.2.jar solveRandomProblems/SolverRandomProblems na vd

For example, with 26 agents for the Beta distribution:

> java -classpath .;../commons-math-2.2.jar solveRandomProblems/SolverRandomProblems 26 4