These files include the 15 Many-objective test instances (MaF01.java, MaF02.java, …, MaF15.java) and 15\*3 true Pareto fronts for 15 instances, for each instance we have 3 different Pareto fronts according to the number of objectives. For example:

file ‘MaF01PF\_M5.txt’ is the true Pareto front of MaF01 with 5 objectives,

file ‘MaF03PF\_M10.txt’ is the true Pareto front of MaF03 with 10 objectives,

file ‘MaF05PF\_M15.txt’ is the true Pareto front of MaF05 with 15 objectives.

The 15 MaF\*\*.java files should be put in the directory ‘src\jmetal\problems\MaF\’, or alternatively, you can change that after finding them;

The ‘ProblemFactory.java’ file should replace the original one in JMetal to guarantee that the 15 instances can be added to the problem list.

Besides, an example about the function call of these 15 classes, which is similar to that of other test instances in JMetal, is under the directory ‘src\jmetal\metaheuristics\nsgaII\ NSGAII\_main.java’:

problem = **new** MaF01("Real",10,5) ;

indicators = **new** QualityIndicator(problem, "MaF01PF\_M5.txt") ;

Since we only provide the 15 functions which can evaluate objectives according to the input variables, you can evaluate the indicators or figure the Pareto fronts with your own methods.