



- Configuration of ECJ Parameterfile (HL-specific changes are highlighted):

```
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# The parameters that were laid out in Tutorial 1 (see the documentation)  
  
verbosity = 0  
  
breedthreads = 1  
evalthreads = 1  
seed.0 = 4357  
  
state = ec.simple.SimpleEvolutionState  
  
pop = ec.Population  
init = ec.simple.SimpleInitializer  
finish = ec.simple.SimpleFinisher  
breed = ec.simple.SimpleBreeder  
eval = ec.simple.SimpleEvaluator  
stat = com.heuristiclab.okb.ecj.OKBStatistics  
exch = ec.simple.SimpleExchanger  
  
generations = 200  
quit-on-run-complete = true  
checkpoint = false  
prefix = ec  
checkpoint-modulo = 1  
  
stat.file = $out.stat  
  
pop.subpops = 1  
pop.subpop.0 = ec.Subpopulation  
  
pop.subpop.0.size = 10  
pop.subpop.0.duplicate-retries = 0  
pop.subpop.0.species = ec.vector.VectorSpecies  
  
pop.subpop.0.species.fitness = ec.simple.SimpleFitness  
pop.subpop.0.species.ind = ec.vector.BitVectorIndividual  
  
pop.subpop.0.species.genome-size = 20  
pop.subpop.0.species.crossover-type = one  
pop.subpop.0.species.crossover-prob = 1.0  
pop.subpop.0.species.mutation-prob = 0.01  
  
pop.subpop.0.species.pipe =  
ec.vector.breed.VectorMutationPipeline  
pop.subpop.0.species.pipe.source.0 =  
ec.vector.breed.VectorCrossoverPipeline  
pop.subpop.0.species.pipe.source.0.source.0 =  
ec.select.TournamentSelection
```



```
pop.subpop.0.species.pipe.source.0.source.1      =  
ec.select.TournamentSelection
```

```
select.tournament.size                          = 2  
print-all-params = true  
eval.problem                                    = ec.app.tutorial1.MaxOnes
```

#HL-necessary Parameters

```
okb.parameter = pop.subpop.0.size; pop.subpop.0.duplicate-retrie  
okb.parameter.seed = seed.0  
stat = com.heuristiclab.okb.ecj.OKBStatistics
```

- Explanation of this Parameters:
  - okb.parameter: the parameter names separated by ; all these parameters names and its values are Stored in Run of HL, each parameter causes a new Entry in HL Value Table (Name equals property name):
  - okb.parameter.seed: one specific param must be set (transferred to HL-Run.RandomSeed)
  - stat: defines the HL-OKB-StatisticClass, this Class transfers the Names and Values of the Parameters defined before via Webservice to HL
- The Start of ECJ like normal (via GUI or Commandline), the whole configuration is done in parameterfile with the parameters described above:
  - `java ec.Evolve -file app/edge/3.params`
- ECJ is started normally after this settings (either via Commandline or GUI)
- The complete ECJ documentation can be found under:  
<http://cs.gmu.edu/~eclab/projects/ecj/docs/>