Modelling Constraint Satisfaction Problems

Consider the CSPLIB benchmarks, available at the <u>www.csplib.org</u> web site.

Use only arithmetic (possibly conditional) constraints of the Comet language to model and solve the following CSPLib problems:

CSPLib 06: Golomb Rulers

For different values of m, assess the minimum rulers that is possible. Assess the efficiency of the execution of your solution.

CSPLib 07: All-Interval Series

Test your solution for different values of n, to assess the efficiency of execution. Compare your program with another that uses the system available constraint "all_different".

CSPLib 24: Langford Number Problem.

Generalize it to different values of n and k, and assess the efficiency of execution.