

Modelling Constraint Satisfaction Problems

Consider the CSPLIB benchmarks, available at the www.csplib.org web site.

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

CSPLib 15: Schur's Lemma.

Generalize it to $k > 3$, and test your solution for different values of n and k , to assess the efficiency of execution.

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".