

Team Planner

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Abstract

Project.

1 Description of the problem

Consider a set of m missions that have to be done. Each mission m_i requires a team of people of size at least lm_i and at most um_i . We have a set of n people to make the teams. Each person p_i has to participate in at least lp_i missions and at most up_i missions. Besides, for any pair of missions there must be exactly one person that participates in both of them.

Write a MiniZinc model for this problem using Sets. The input is: m , n , and four arrays containing the upper and lower bounds (i.e, lm_i, um_i, lp_i, up_i).