Fair Schedule Planner

A bounded exact constraint search with availability, shared time groups and explicit fairness status.

Declare people and slots

Use fictional or authorised IDs. Each person has a maximum assignment count and a list of unavailable slot IDs. Each slot has an ID, a demand and a time group. A person can appear only once within the same time group.

Check the constraints first

The planner validates duplicate IDs, unknown unavailable slots, impossible demands and basic capacity shortages. It then searches assignments satisfying all declared constraints. It does not guess dates or infer overlapping times from a label.

01 / Input record

Purpose
Assign fictional people to small duty slots.

Fictional input
Four people P-A through P-D. Slot S-1 needs two people; S-2 needs one in the same time group. Slot S-3 needs two later.

Units and input scope
Up to 16 people, 12 slots and 8 people per slot. A search limit can yield a feasible result without proving optimality.

Input version
Example version 1; record a new version after changing an input.

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