

The Talent Scheduling Problem

MIE1619 Modeling Bootcamp 2021

The problem is related to the Rehearsal Scheduling problem with is Problem #39 in the CSPLib (<http://www.csplib.org/Problems/prob039/>) (csp, 1999). The Talent Scheduling problem is described on the same page as follows.

The problem is to create the sequence in which the scenes of a movie are shot. Each scene takes one day to shoot and requires a subset of actors. It is assumed that actors arrive on the day of their first scene and leave at the end of the day on which their last scene is shot. Any day between their first and last scene that they are not needed for a scene, they must wait around. Cast members are paid at different rates for the days that they spend on-set waiting while other scenes are shot. The goal is to find a sequence of scenes that minimizes the total cost.

See the readme.txt file in the Problems folder and the CSPLib entry.

References

1999. CSPLib: A problem library for constraints. <http://www.csplib.org>.