Problème de répartition des employés de cinéma

Un extrait de ce lien : https://www.artelys.com/app/docs/kalis/3_solveCP.html

Let suppose that a movie theatre director has to decide in which location each of his employees should be posted.
There are eight employees, named Andrew, David, Jane, Jason, Leslie, Michael, Marilyn and Oliver.
There are four locations: the ticket office, the first entrance, the second entrance and the cloakroom.
These locations require 3, 2, 2, and 1 person respectively.

he variables of the problem are the locations where each employee will work.

There are some constraints associated with this problem:
- each employee must have a unique location;
- Leslie must work at the second entrance;
- Michael must work at the first entrance;
- David, Michael and Jason cannot work together;
- each location must be occupied by exactly the number of employees it requires;
- if David is selling tickets, Marilyn must be with him.

Solving the problem means finding values of the variables satisfying all the constraints.