TSP problem formulation

Problem statement:

Given a list of cities and the distances between each pair of cities, what is the shortest possible route that visits each city exactly once and returns to the origin city?

Definitions

distances_{i,j} distance from location i -> j
depot start/end location
c=0...C city index

Decision variables

 $x_{i,j} = \{0,1\}$ Whether node i is followed by node j

Constraints

C1: Nodes must be in a hamiltonian graph

Luckily, this constraint can be directly called in ortools as such

Objective

 $minimize \sum_{i,j} x_{i,j}^{-*} * distances_{i,j}^{-}$