Optimization Problem is a tuple (ϕ, ω, f) , where

- ϕ is a search space consisting of all possible assignments of discrete variables x_i , with i=1,...,n
- $\bullet \ \omega$ is a set of constraints for the decision variables
- $f: \phi \to R$ is an objective function which has to be optimized

TSP and QAP description. Solution components. Feasible solution.