



Why

Often the feasible set of an optimization problem is set with many, say 2^{100} , objects. Often the size grows exponential in the size of the representation.

Definition

An optimization problem (\mathcal{X}, f) is called a *combinatorial* (a *combinatorial optimization problem*) if \mathcal{X} is a finite set. Usually, the language is meant to connote that the set is large, with respect to some predetermined notion of size.

