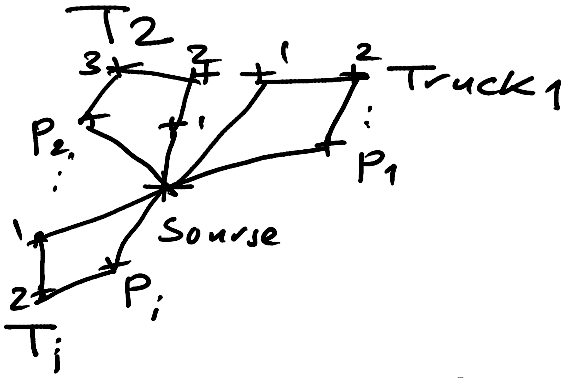
Saturday, January 23, 2016
6:35 AM

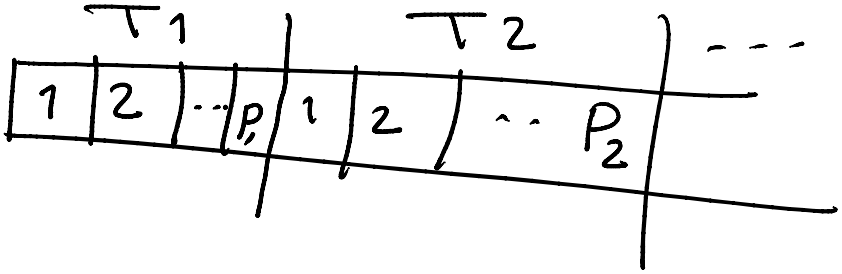
Vehicle Routing problem :



$$P = P_1 + P_2 + \cdots + P_i + \cdots P_N$$

$$P_i : 1, 2, \cdots, P_i$$

step1 Design of Chromosome



step2 Fitness Function.

$$F = \text{minimize} \sum_{\substack{\forall T_i \\ i:1 \to N}} d_{route\ T_i}$$

step3 Selection

Normal Roulette wheel selection.

step4 Crossover

Use ERX operator.

step5 Mutation

swap items (supermarkets) between Trucks routes.

step 6 Replacement

Elitist strategy.