3.25 Example condensean

Q: TSP   25 143

Solution ① swap   Mutation

$$2 5\ 1\ 4 3$$

random

$$2 3 1 4 5$$

② Inversion Mutation

$$2 5\ 1\ 4 3$$

$i=2 \quad j=4$

$$2 4 1 5 3$$

③ crossover : Partially Mapped Crossover
PMX

$$\underline{1}\ 3\ 4\ 2\ \underline{5}$$

$$\underline{2}\ 5\ 1\ 4\ \underline{3}$$

④ Order crossover

2 | 5   1 | 4 3

1 3 4 2 5

4 5 1 2 3