

Crossover methods

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1 Crossover algorithms

1.1 Partially mapped crossover[PMX]

The partially mapped crossover algorithm is summarized in *figure 1*:

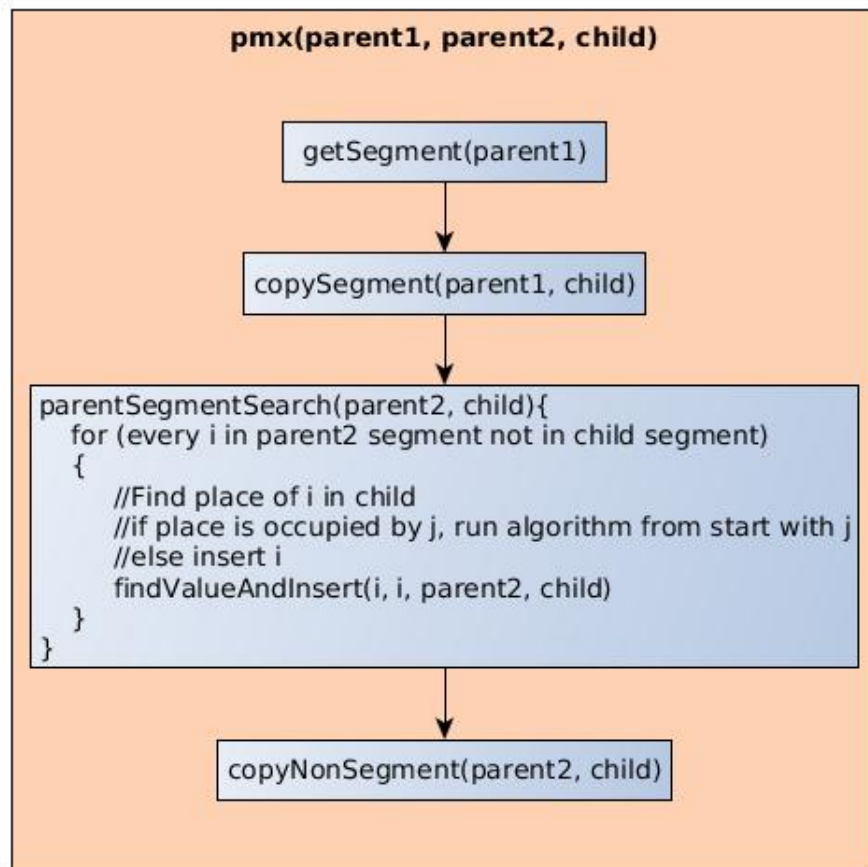


Figure 1: Flow of the PMX algorithm.

1.2 Order crossover

The order crossover algorithm is summarized in *figure 2*:

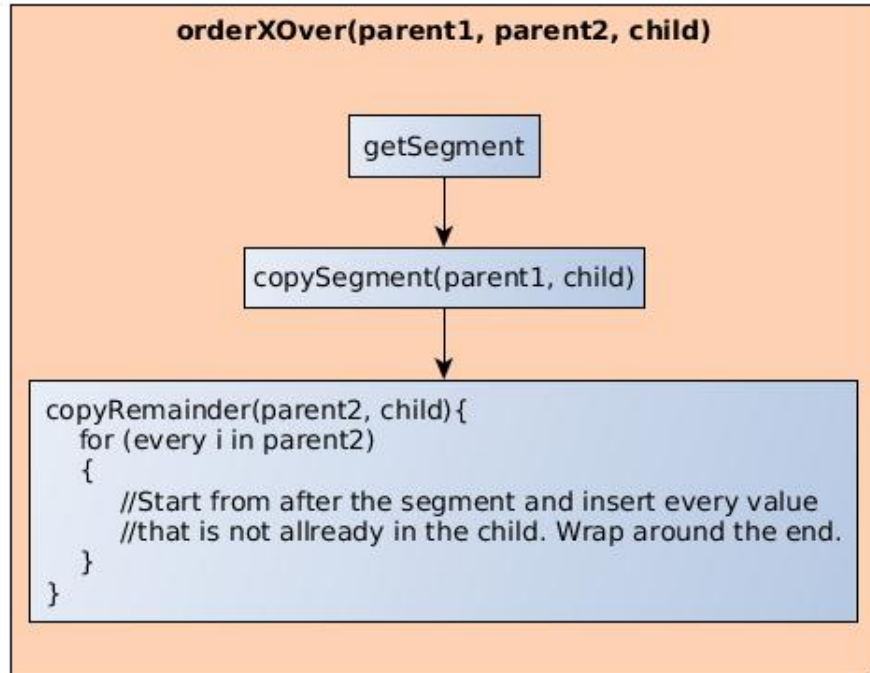


Figure 2: Flow of the order crossover algorithm.

1.3 Cycle crossover

The cycle crossover algorithm is summarized in *figure 3*:

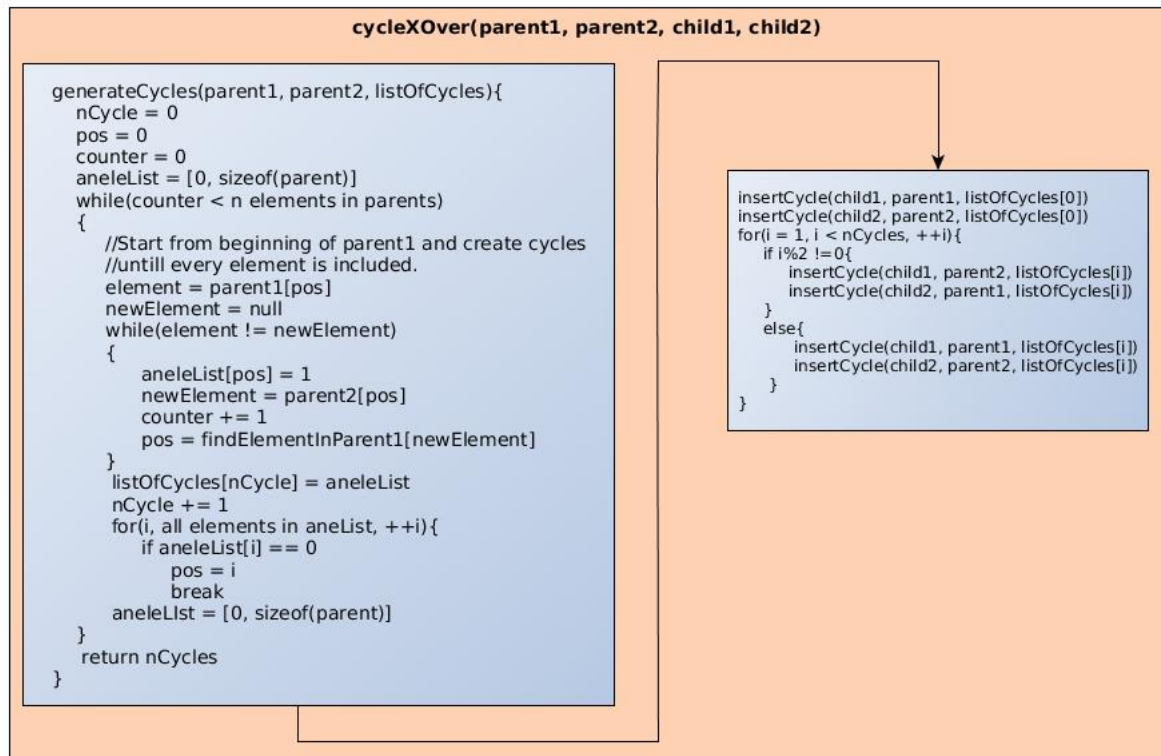


Figure 3: Flow of the cycle crossover algorithm.

2 Strategy

There seems to be some similarities between PMX and order crossover. Some code can be reused. These algorithms will be implemented as member functions of class Crossover.