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generate( $\Pi_c$ );
 $\forall s \in \Pi_c : T_s = \perp$ ;
evaluate( $\Pi_c$ );
 $q = \text{bestOf}(\Pi_c)$ ;
 $c_R = 0$ ;
repeat until stopCriteria():
    if no improvement for  $R$  generations do :
         $c_R = c_R + 1$ ;
         $M = \max(\text{round}(\beta^{c_R} M), 1)$ ;
         $\Pi_c = \text{reduce}(\Pi_c, M)$ ;
         $p_{mut} = \min(\gamma p_{mut}, 1.0)$ ;
    end;
     $\Pi_n = \emptyset$ ;
    repeat  $M$  times:
        select  $s \in \Pi_c, t \in \Pi_c$ ;
         $v = \text{crossover}(s, t)$ ;
         $T_v = \perp$ ;
         $\Pi_n = \Pi_n \cup \{v\}$ ;
    end;
    evaluate( $\Pi_c \cup \Pi_n$ );
     $\Pi_c = \text{reduce}(\Pi_c \cup \Pi_n, M)$ ;
     $\forall s \in \Pi_c : s = \text{SAmutate}(s)$ ;
     $\forall s \in \Pi_c : \text{with prob. } p_{inv} \text{ do :}$ 
         $s = \text{invert}(s)$ ;
    end;
    evaluate( $\Pi_c$ );
     $q = \text{bestOf}(\Pi_c \cup \{q\})$ ;
end;
 $\forall t \in \Pi_c \cup \{q\} : t = \text{optimize}(t)$ ;
 $r = \text{bestOf}(\Pi_c \cup \{q\})$ ;

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