

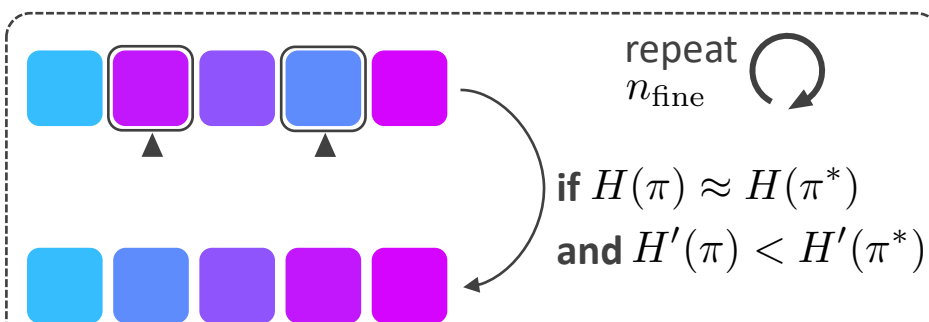
1. Alleviate Input Biases

Initial sequence might contain harmful local correlations between elements.



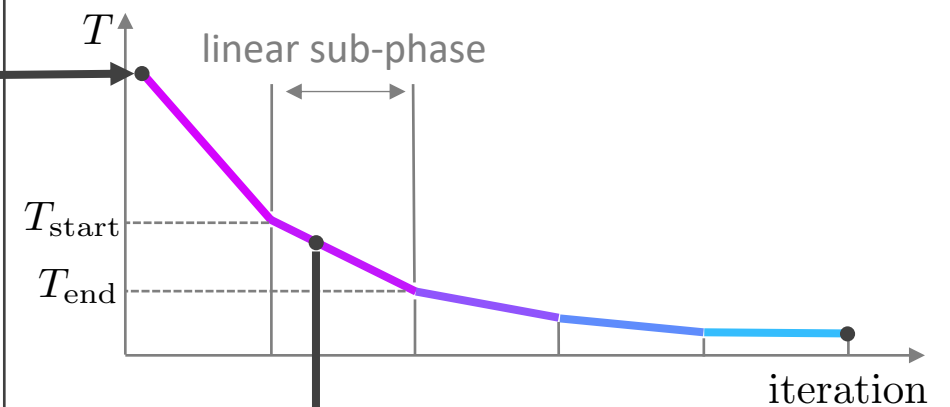
random permutation

3. Finetuning for Secondary Objective H'



2. Modified Simulated Annealing

partially linear tempering scheme



transient phase at each step

select 2 items randomly



repeat n_{trans}

if $\exp(-dH(\pi, \pi')/T) > \mathcal{N}(0, 1)$



update and fine-grained search after each transient phase

if $H(\pi) > H(\pi^*)$

select 2 items randomly



repeat n_{trans}

if $\exp(-dH(\pi, \pi')/T) > \mathcal{N}(0, 1)$



update incumbent and primal
 $\pi^* \leftarrow \pi$ and $H(\pi^*) \leftarrow H(\pi)$

incumbent π^*
primal $H(\pi^*)$