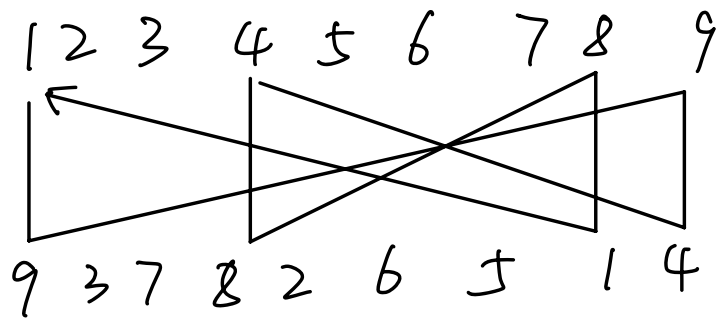


Example Cycle crossover

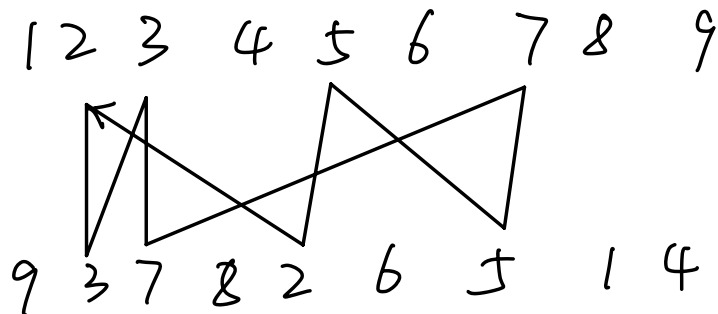
1 2 3 4 5 6 7 8 9

9 3 7 8 2 6 5 1 4

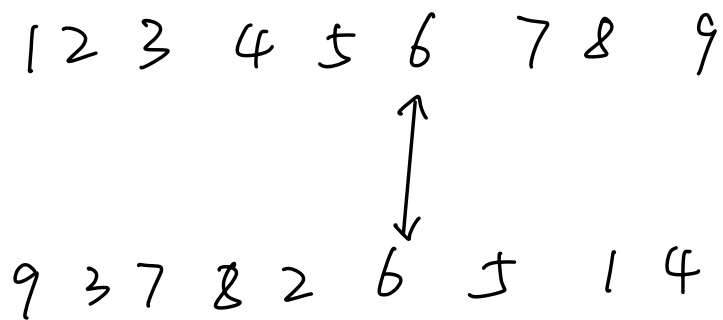
Solution ① find circle 1



② circle 2.

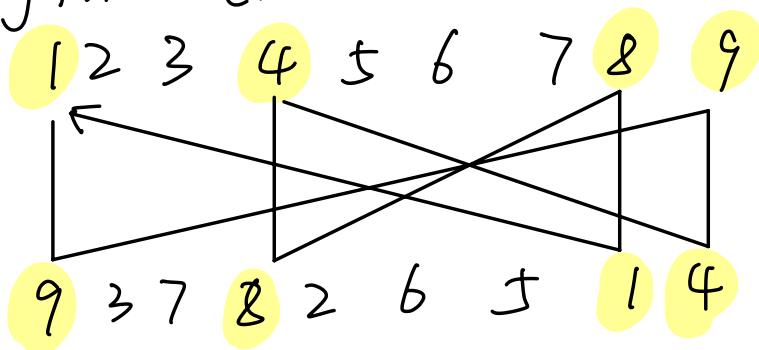


③ circle 3

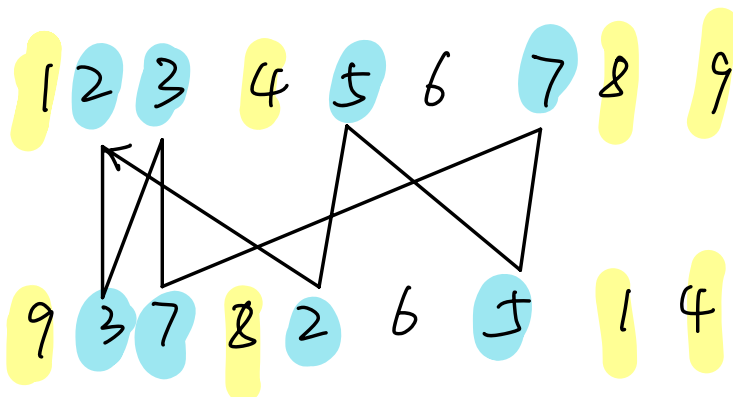


④ step 2. copy alternate cycles
into offspring

fixed circle 1



Swap circle 2



1 3 7 4 2 6 5 8 9

9 2 3 8 5 6 7 1 4

fixed circle 3

1 3 7 4 2 6 5 8 9

9 2 3 8 5 6 7 1 4