

Permute [A, B, C]

- Lock A, permute [B, C]
 - Lock B, permute [C]
 - Lock C, print [A, B, C]
 - Lock C, permute [B]
 - Lock B, print [A, C, B]
- Lock B, permute [A, C]
 - Lock A, permute [C]
 - Lock C, print [B, A, C]
 - Lock C, permute [A]
 - Lock A, print [B, C, A]
- Lock C, permute [A, B]
 - Lock A, permute [B]
 - Lock B, print [C, A, B]
 - Lock B, permute [A]
 - Lock A, print [C, B, A]