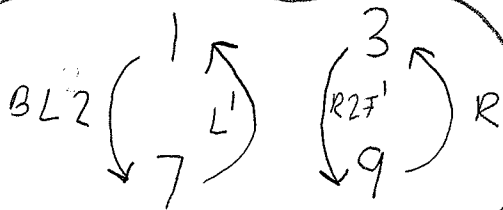


1 2 3  
4 6  
7 8 9

Permutation 1

B = Back  
Bo = Bottom  
T = Top  
F = Front  
R = Right  
L = Left

Move  $(RT'LB'L')T2(LB'L'TR')$   
= (I) = (II)



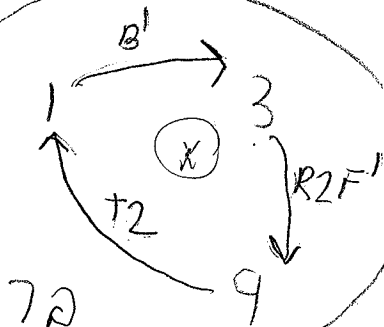
2 2  
4 2 (FI) 6 2 (FI)  
8 2

(FI) = 'Flip'  
2 = No Change

(B, Or, YC)

$\begin{matrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 2 & 3 & 1 \end{matrix}$  (I) T2 (II)  
2x

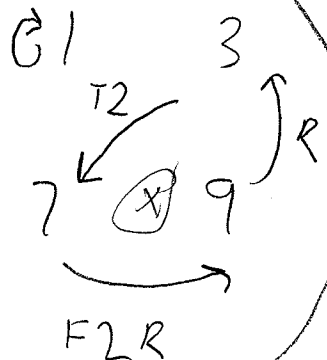
Move (I) T (II)



2 2 (FI)  
4 2 6 2 (FI)  
8 2

$\begin{matrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 2 & 3 & 1 \end{matrix}$  (I) T (II)  
2x

Move (I) T' (II)



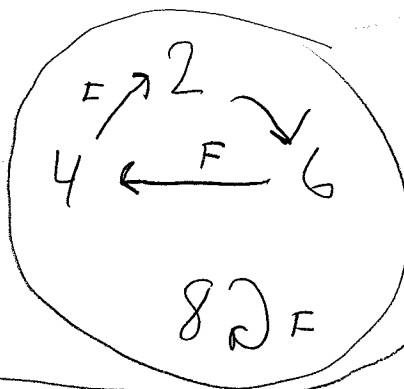
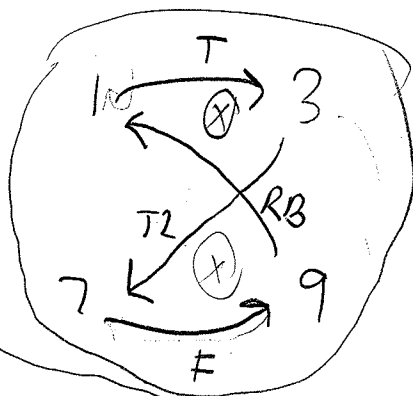
2 2  
4 2 6 2 (FI)  
8 2 (FI)

$\begin{matrix} 1 & 2 & 3 \\ 2 & 3 & 1 \\ 2 & 3 & 1 \end{matrix}$  (I) T' (II)  
2x

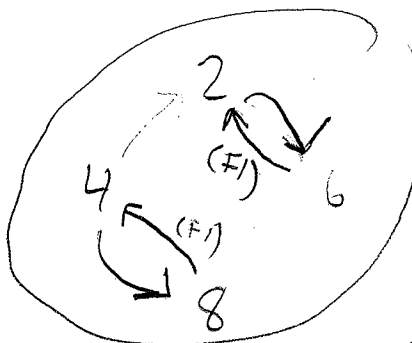
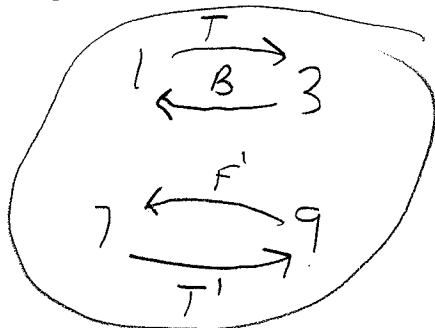
# Permutation 2

1 2 3  
4 6  
7 8 9

Move  $(2) \quad T \quad (2)$   
 $(RBT'B') \quad T \quad (BTB'R')$

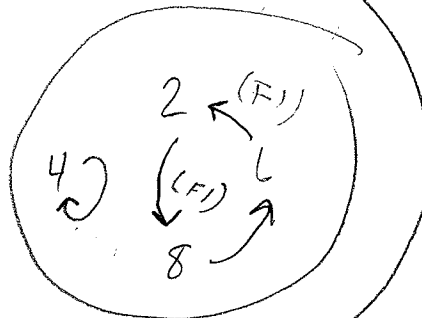
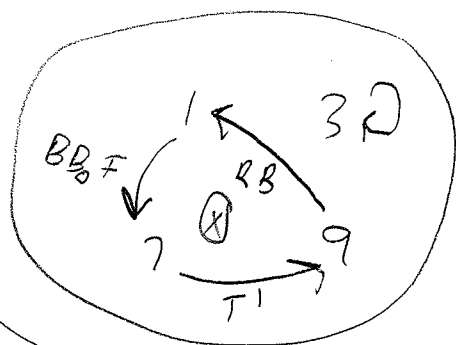


Move  $(2) \quad T2 \quad (2)$



4x  $(2) T2 (2)$   
 $\begin{matrix} \swarrow 1 \nearrow \\ 23 \end{matrix}$   $\begin{matrix} \swarrow 1 \nearrow \\ 23 \end{matrix}$   
 $\begin{matrix} \swarrow 2 \nearrow \\ 13 \end{matrix}$   $\begin{matrix} \swarrow 2 \nearrow \\ 13 \end{matrix}$   
 $\begin{matrix} \swarrow 3 \nearrow \\ 12 \end{matrix}$   $\begin{matrix} \swarrow 3 \nearrow \\ 12 \end{matrix}$

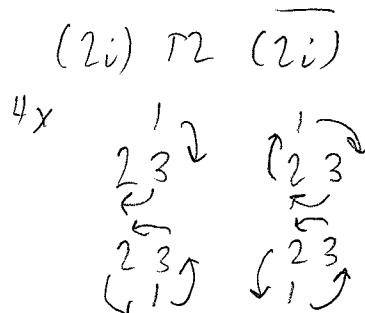
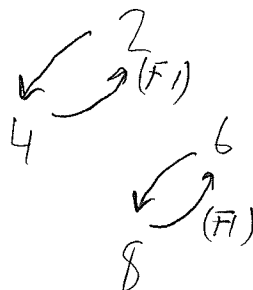
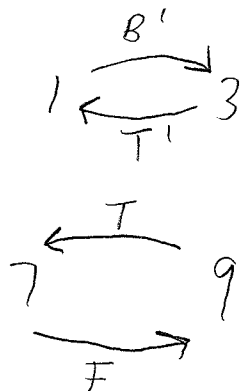
Move  $(2) \quad T' \quad (2)$



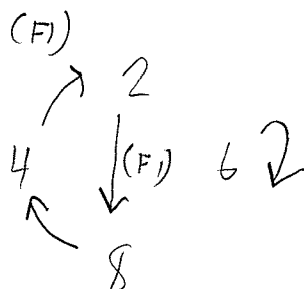
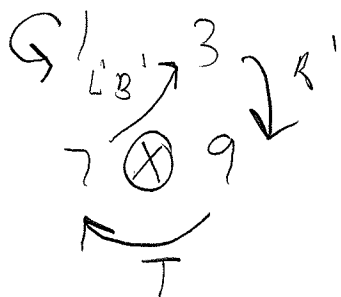
Permutation 2i

1 2 3  
4 6  
7 8 9

$$(L' B' T B) T L (B' T' B L)$$



$$(2i) T (2i)$$



$$(2i) T' (2i)$$

