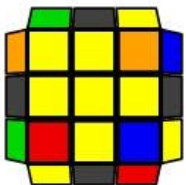
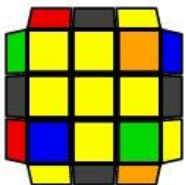
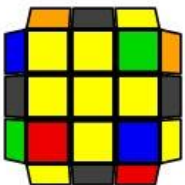
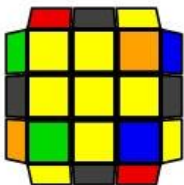
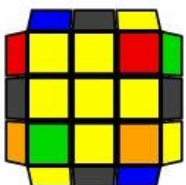
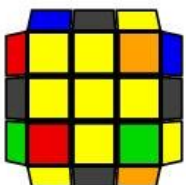
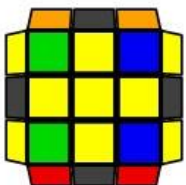
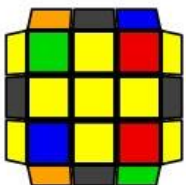
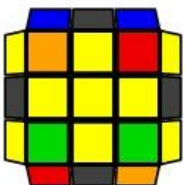
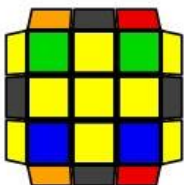


3x3 COLL

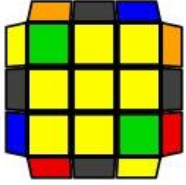
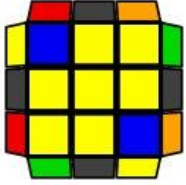
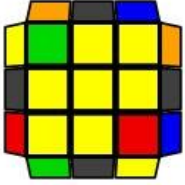
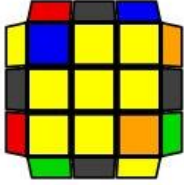
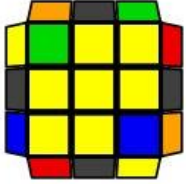
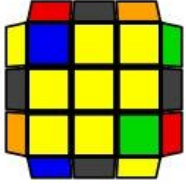
Anti-Sune Cases

			
$R U' R' U^2 R U' R' U^2 R' D' R U R' D R$	$R' U L U' R U L$	$U^2 R U^2 R' U^2 L' U R U' R' L$	$U^2 R^2 D R' U^2 R D' R^2 U' R U' R'$
			
$U^2 R^2 D R' U R D' R' U R' U' R U' R'$	$R' U' R U' R' U^2 R$		

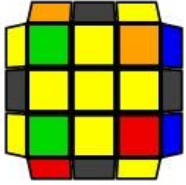
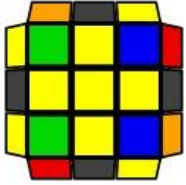
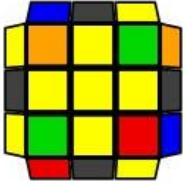
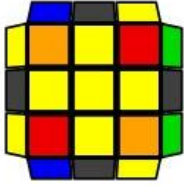
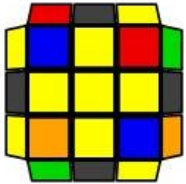
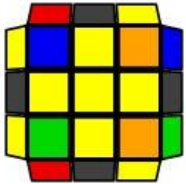
H Cases

			
$(U) F R U R' U' R U R' U' R U R' U' F'$	$R' F' R U^2 R U^2 R' F U' R U' R'$	$F R U' R' U R U^2 R' U' R U R' U' F'$	$(U) R U^2 R' U' R U R' U' R U R' U' F'$

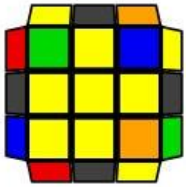
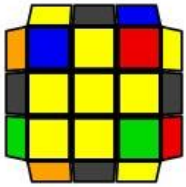
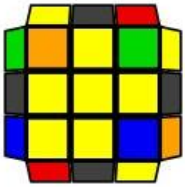
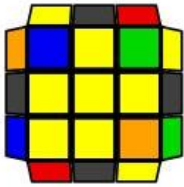
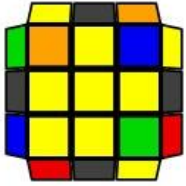
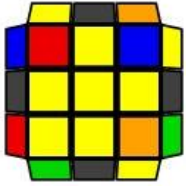
L Cases

			
$(U2) R' U2 R' D' R U2$ $R' D R2$	$(U') R U2 R D R' U2 R$ $D' R2$	$(U) R' U' R U R' F' R U$ $R' U' R' F R2$	$R' U' R U' R' U R U' R'$ $U R U' R' U2 R$
			
$(U') F R' F' r U R U' r'$	$F' r U R' U' r' F R$		

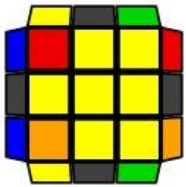
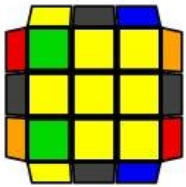
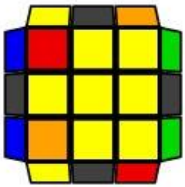
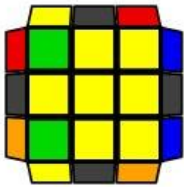
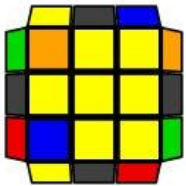
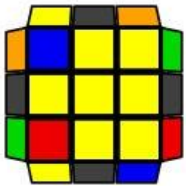
P Cases

			
$R2' D' R U R' D R U R$ $U' R' U R U R' U R$	$U2 L' U R U' L U' R' U'$ $R U' R'$	$R U R' U' R' F R2 U R'$ $U' R U R' U' F'$	$U F U R U' R' U R U2$ $R' U' R U R' F'$
			
$U F U R U' R' U R U'$ $R2 F' R U R U' R'$	$R U2 R2' U' R2 U' R2'$ $U2' R$		

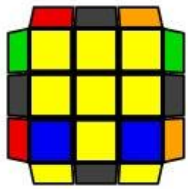
Sune Cases

			
$R U' L' U R' U' L$	$F' R U^2 R' U^2 R' F^2 R$ $U R U' R' F'$	$(U') R U R' U R U' R D$ $R' U' R D' R^2'$	$L' R U R' U' L U^2 R U^2$ R'
			
$(U^2) R U R' U R^2 D R'$ $U^2 R D' R^2'$	$R U R' U R U^2 R'$		

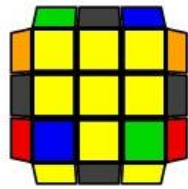
T Cases

			
$(U') R U' R^2 D' r U^2 r'$ $D R^2 U R'$	$(U') F R U R' U' R U'$ $R' U' R U R' F'$	$(U') R' F R U R' U' R'$ $F' R^2 U' R' U^2 R$	$(U) R U^2 R' U' R U' R^2$ $U^2 R U R' U R$
			
$(U^2) l' U' L U R U' r' F$	$r U R' U' r' F R F'$		

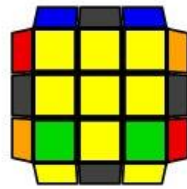
U Cases



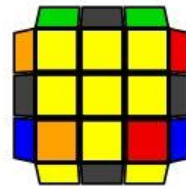
U2 R2 D' R U R' D R
U R U' R' U' R



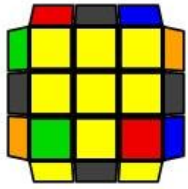
R' F2 R U2 R U2 R' F2
R U2 R'



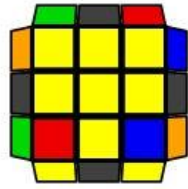
U2 R' F R U' R' U' R U
R' F' R U R' U' R' F R
F' R



R U R' U R U2 R2 U'
R U' R' U2 R



U2 R2' D' R U2 R' D R
U2 R



R2 D R' U2 R D' R' U2
R'