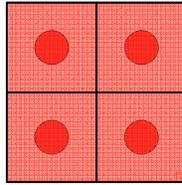
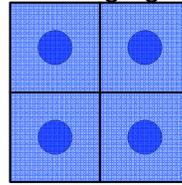


Original 2 x 2 LEGO BRICKS (Red & Blue)

R-base fixed

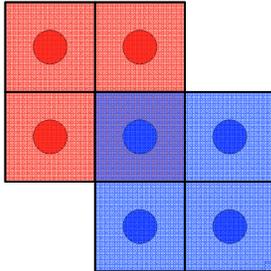


B-top changing

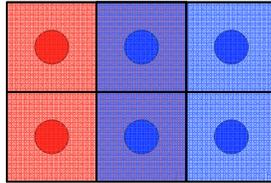


How Many Combinations I can make out with RED as base and changing BLUE on top and that will be an 'EVEN' or 'ODD' number?

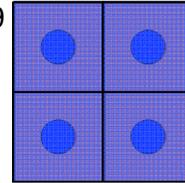
1



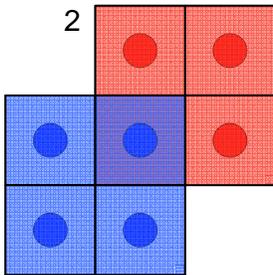
5



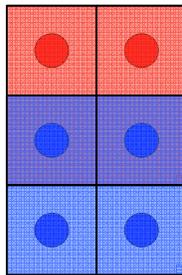
9



2

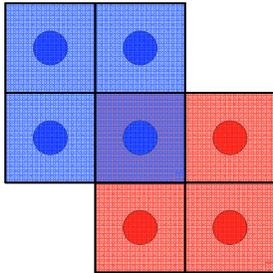


6

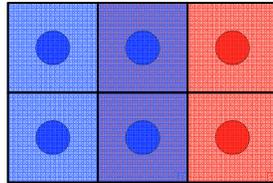


Total Combinations = '9' and that is 'ODD'

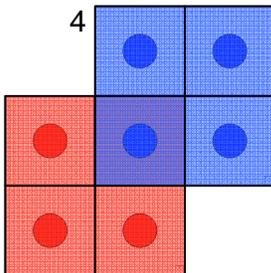
3



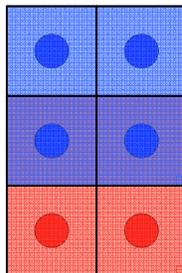
7



4



8



So now if change base to Blue and move Red we will get another 9 combinations and so total will be "18" and that is "EVEN".