Counting

Distinct

Distinct?

m Boys And n Girls Are Arranged In A Row, Find The Number of Arrangements When

i) No Restrictions

ii) No Boys Are Adjacent

iii) The n Girls Form A Single Block.

iv) A Particular Boy And A Particular Grl Must Be Adjacent

Find The Number of Odd Integers Between 3000 And 8000 In Which No Digit Is Repeated.

Find The Number of Common Positive Divisors of 10^{40} And 20^{30}.

How Many Divisors Will n Have If $n = p^a q^b$

Can You Generalise This?