n = a b t c 3, where a band e are perime factors of n and x, y, z are their powers then the total no. of factors of n = (x+1)(y+1)(z+1)

For n!, you find all prime nos till nand then use the following trick. To find power of two in 100}

> 100/2 = 50 50/2 = 25 25/2 = 12 12/2 = 5/2 12/2 = 5/2 3/2

so in 100/ the power of a vis 297, use this and find the powers of all numbers that we puine and

also [ZE 100].

pernens after incrementing by one.