20181288 登楼 후四 24 引起
1. Lemma: If IGI is even, Gr contains an element of order 2.
proof) Suppose G To a finite group with no element of order 2.  Then every element ate has ata so the non-identity elements come To pairs. Therefore IGI = 1+2/2 To add, where & is the number of those pairs.
By Lemma, Gr Confains an element of order 2, since 16/=10 which is even to

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	But the second of the St. Annual County of the
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2, (	(9) 4,8,12,16
	(b) \$0,1,2,3,4, 5,6,7,8,9,10,11,12,13,14,15,16,17,18,18}
	[0,2,4,6,8,10,12,14,16,18]
	(0,4,8,12,16)
	{0,5,10,15}
	{0,10}
	{o}
2 (6	7) Let G'={geg g'=e}
3. (0	x) Let (4-) Je (1) -e)
	(i) Since ete, thus eeg' which means q'is not empty.
	(i) let 9, 9, EG', then (99) = 9, 5, = e.e.e. Thuc 9,9, EG'.
	(iii) let 9, Est then 9, = e. Since 9, Eq. 9, exists. Then we can
	multiply 3 on the equation. Then we have $e = 9^{-15} = (37)^{15}$ . Thus
	3-1eg
	), 6-1.
	By (i), (ii), (iii), it is a subgroup of G

3 (b) There is only I cleared, which is the identity of &.  Thus, the order is 10 (: 15×100)
Thus, the order Is (: 15x100)