Colution 1.13 Cleing Fermat's little theorem. 5 mod 31 = 1. Cince 30000 Rs. a multiple of 30. we can say 5 30000 mod 31 = 1 Uling long division to find 123456 med 30 30) 123456 630 mod 3L = L. Since 123451 mod 30 is 6 Similarly, Which it same as mod 31

530 = 1 mod 31

difference between two when is 0 mised 31

difference between two when is 0 mised 31 There fore the differer is divisible by 31 The

\$(n)		(n)
n-100	- 0	n-200
N3/2	= 0	n ² /3.
> 100n + lopn	= 0	n+ (lopn)2
nlopn	- 0	10 n log 10 n
} 1062n	= 0	20937
) to lobu	= 0	106(n2)
1.01	= 1	nlop²n
n n loopn	= 1	n (topn)2
> (NO:1) 10/1	= 0	(10pn)10
> (40 b n) 10 b n	- 0	nllogn
d) In	- 1	(Logn) ³
Lio	= 0	5 10/02/17.
n n n n n n n n n n	= 0	3 17
n> 2 ⁿ	= 0	2 n+1.

Problem No 3