		PAGE NO. —
	RANDOM NUMBE	DATE:
	KINDON WONDE	
W 1/2 1/2 1/2	- a make any of the	Carrie Maria
(i) MID-	No. of Concession, Name of	hardly 1411
- Tah	4 digit no. Zo	<u> </u>
- Syn	all it and make it	8 digit by
- Tah	e mid 4 digits ad	lding o an egi
	tinue the perocess	n times
<u> </u>	of wall to war to	
eg i	Zi Random No	2;2
0	7182 -	91581124
	5811. 0.5811	33767721
2	7677 0.7677	58936329
(\ Si	Milesus Dant Durable	3) - 1100111 July
DISAD	VANTAGE:	-
in if	Z; = 1009, phocess	stope for -
Ĭ.	Leh NO'S	
if	Zi = 3600, ploces	stope with
1 re	netation of 5 ame can	JOHN ME
(ii) Ni	mbers are not rand	lom. If ull
kn	our any one no, we	can find
ent	ive sequence	w chip
tabe I was	January Barry Barry	
+ Number	PSEUDO-RANDOM. MIP-Sa	hmetic method
ald	PSEUDO-RANDOM. MIP-Sa	WARE IS
also	an alithmetic method	elarious x -
	JAN DU - A COUNTY AND A STATE	CASE MINISTER
LIDONDITI	ONS OF RANDOM - NO.	
(a) Hust	be uniformly distribe	ited blw
E0, 1	The second of th	

	PAGE NO DATE :
16) Mus	t generate landom no 's quilly
(c) Mu	et requile less stolage
(d) 2	random no. Should not be
	erelated to each other
(e) St	ream of random nois must lie
la	rhoducable for a leasone
UI	we may drant to use same
<u></u>	elies of random no,'s folidifferent
4 10	iniliation
(1)	esses delugging and relification
* To v	
Lin LIN	EAR-CONGRUENTIAL GENERATOR (LG)
7.1.	1072 + 1) 11
V. DI	(aZi-1 + c) mod m
T NAME	Zo, a, c, m is given
1 13	Oraccam and Zoam
* The	random no's stalt lopeating
afte	le come random no Zi. So length
oft	his cyclo is called PERIOD of
- gery	tator. The maximum molistican
be.	m. This type of generator is
- cal	led FULL-LENGTH LCG
- 200	FOR FULL-IZKIG-TH 1 (G
- G/ V	and call co-tolling
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
- W	, then quelould divide a-1
(c) I	then quelled divide a-1 4 divides m, then 4 divides
α	

~ T

	DATE	DATE	:
EV) MIXED	GENERATOR		ed e
In <	ound chamber to 0.0	divición	was slow
Alex	une surgettes	ull ands	length.
Sal	one computels, we wanted f		awr H
(i)	m= 2°, whe	le n= n	0-of luts
	in a in and		
DIVISION	Foli 32-bit con	miles, u	e choose
CAN BE REPLACED	Fol 32-bit con b=31 as last lit	lit is	lor sign
BY SMIFT	lit.	11-10	
OPERATION (1)	cis odd	ب السراد	account of
(iii)	20-1 is din	isitule 1	ly 4
\iv)	70 - any num	nbreez blu	1 [0,m-1]
	TEST VALUE V	Hugo in	
(y) MUL-	TIPLICATIVE GENO	CRATOR	
	`		asily
(ii) ID	use m=	2°, then	We can
1		111111111111111111111111111111111111111	1 1 1-4
one	- fourth of full	2 longth	yell.
buil	coldect choice	e of m.	
(iii) m	colout choice - largest plus	me < 2°	.and
	16 VIVETYICE A		// 4
1.	- 1 12 au v95 1/26		Market Control of
SW	sleet l=m-	1	
-> POO.	isd = m-I A	Il no. bli	w 1 tom-L
a 20	in a soluced an	10	AND IEL
+ C	lled PRIME M	IDDULUS	MULTIPLICATIVE
LC			
	1000 1000 1000 1000 1000 1000 1000 100		The state of the s

PAGE NO. -

The second second	
	PAGE NO DATE :
	s m \ 2°, we have to do explicit i vision row to find primitive elementos
(v) <u>TEST</u>	ING OF RANDOM NO'S
→ <u>Test</u> (i) K (ii) (FOR UNIFORMITY OF RANDOM NO'S olmogedrau Sminon Test hi-Squaled test. (<)
(1)	Ranh no's in ascending older
(ii)	and label them as $i=I,2,-N$ $p^{+}=\max\left[i-R;\right]$ \forall $i\in\Gamma_{1},N_{1}$
	$D = mas([R; -(i-1)] \forall i \in [I, N]$ $D = mas([D, D])$
(111)	D <dx -=""> ACCEPTED UNIFORMITY D>DX - NOT UNIFORM</dx>
(1)	Random No's = 0440510.14
	$0_x = 0.565 (x = 0.05)$ Test for uniformity

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