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Program Description I

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Program Title REACTION TIME INDICATOR WITH NNN'S

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Program Description, Equations, Variables

HOW TO RECORD THE CARD:

program!	001 LBL A
	002 GSB B
	(GTO . 221)
	222 LBL B
	223 MERGE
	224 PAUSE

switch to RUN: press [A]

Let at least three pauses pass by and insert the 2. side of a program card with more than 112 steps.

Clear Error by pressing any key. Go on with following steps:

a) select [SCI] [DSP9]

b) press [x^2] five times

c) press the combination [5][x][2][x] five times and add [5][x]

d) store the result in R1

~~Operating Limits and Warnings~~ e) store the fraction part of π ([π][Frac]) in R2 and -0.04 in R3

f) press [$\Sigma+$]

Annotation: The contents of the secondary registers achieve that the calculator prompts Err after the first side of the magnetic card is entered!

This program has been verified only with respect to the numerical example given in Program Description II. User accepts and uses this program material AT HIS OWN RISK, in reliance solely upon his own inspection of the program material and without reliance upon any representation or description concerning the program material.

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- g) press **W/DATA** and insert the first side of a card to load the contents of the primary registers
- h) Clear **ErD**
- i) load program onto the second side of the card

The program calculates a random seed with the **A**-routine.

It's a closed loop and can only be stopped by pressing **R/S**

The result has to be ^{stored} stopped by pressing **B**

The internal counter-routine adds up the valid tries and computes the mean after n valid tries by pressing **E** once more.

When $n=0$ is stored with **C** the calculator computes the mean of unlimited tries only by pressing **D** after the last one.

D can also interrupt any series of tries and computes the mean up to this point.

A try is valid when the result is unequal 0.

Operating Limits and Warnings _____

None

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Program Description II

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Sketch(es)

none

Sample Problem(s)

The following example shows how a game might be played :

A	R/S	→ 66
B		→ 0
S	C	→ 0
E	E	→ 5 1. trie
E	E	→ 7 2. trie
E	E	→ 0 3. invalid trie
E	E	→ 8 3. valid trie
E	E	→ 6 4. trie
E	E	→ 5 5. trie
E		→ (6,20) , -0,25 sec.

D after 2. trie gives
(6,00) , -0,24 sec.

Solution(s)

none

Reference(s)

none

REACTION TIME INDICATOR

seed STO seed # $\bar{I}, \bar{t}_R$ start

[illegible]



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Program Listing I

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STEP	KEY ENTRY	KEY CODE	COMMENTS	STEP	KEY ENTRY	KEY CODE	COMMENTS
001	LBLC	31 25 00			STC+1	33 61 01	
	DSPC	23 00			DSE	31 33	
	DSPC	23 00	Filling step		LBL2	31 25 02	
	RCLA	34 11	recall NNN	060	RCL	35 34	
	/	81	Stand-by		X>0	31 81	
	+	61			GTO3	22 03	
	+	61			X=0	31 51	
	+	61			GTO4	22 04	
	+	61			CHS	42	
010	+	61			STOC	33 00	
	+	61			CLX	44	
	+	61			STI	35 33	
	+	61			GTO5	22 05	
	+	61		070	LBL3	31 25 03	
	+	61			CHS	42	
	+	61			RCLD	34 14	
	+	61			STI	35 33	
	+	61	count up		+	61	
	+	61			STO0	33 00	
020	+	61			GTO5	22 05	
	+	61			LBL4	31 25 04	
	+	61			RCLD	34 14	
	+	61			STI	35 33	
	+	61		080	STOC	33 00	
	+	61			LBL5	31 25 05	
	+	61			RCLA	34 01	
	+	61			STO-1	33 51 01	
	+	61			RCL0	34 00	
	+	61			/	81	
30	+	61			DSP2	23 02	
	CLX	44			-X-	31 84	
	RIS	84			RCLC	34 13	
	LBL6	31 25 15			X	71	
	X>0	31 81		090	RTN	35 22	
	X<0	31 71			LBLA	31 25 11	
	GTO1	22 01			1	01	
	DSPC	23 00			CHS	42	
	STC+1	33 61 01			STI	35 33	
	DSE	31 33			π	35 73	
040	X=0	31 51			ENTER↑	41	
	GTO2	22 02			ENTER↑	41	
	LBL1	31 25 01			ENTER↑	41	
	1	01			+	61	
	ENTER↑	41		100	GTO(i)	22 24	
	ENTER↑	41			LBLB	31 25 12	
	RCLB	34 12			FRAC	32 83	
	SIN ⁻¹	32 62			STOB	33 12	
	FRAC	32 83			CLX	44	
	STOB	33 12			RTN	35 22	
050	3	03			LBLC	31 25 13	
	X	71			STOD	33 14	
	INT	31 53			STI	35 33	
	1	01			CLX	44	
	+	61		110	STO1	33 01	
	GTOO	22 00			RTN	35 22	
	LBLD	31 25 14					

REGISTERS

0	Used	1	used	2		3		4		5		6		7		8		9	
S0		S1		S2		S3		S4		S5		S6		S7		S8		S9	
A	0.001	CC	B	0.141592654	C	-0.04	D	used	F		I	used							

[illegible]

LABELS					FLAGS	SET STATUS		
Seed	STO seed	#		ESTART/STEP		FLAGS	TRIG	DISP
a	b	c	d	e	f	ON OFF		
						0 ☐ ☒	DEG ☒	FIX ☒
used	used	used	used	used		1 ☐ ☒	GRAD ☐	SCI ☐
						2 ☐ ☒	RAD ☐	ENG ☐
used						3 ☐ ☒		n <u>0</u>