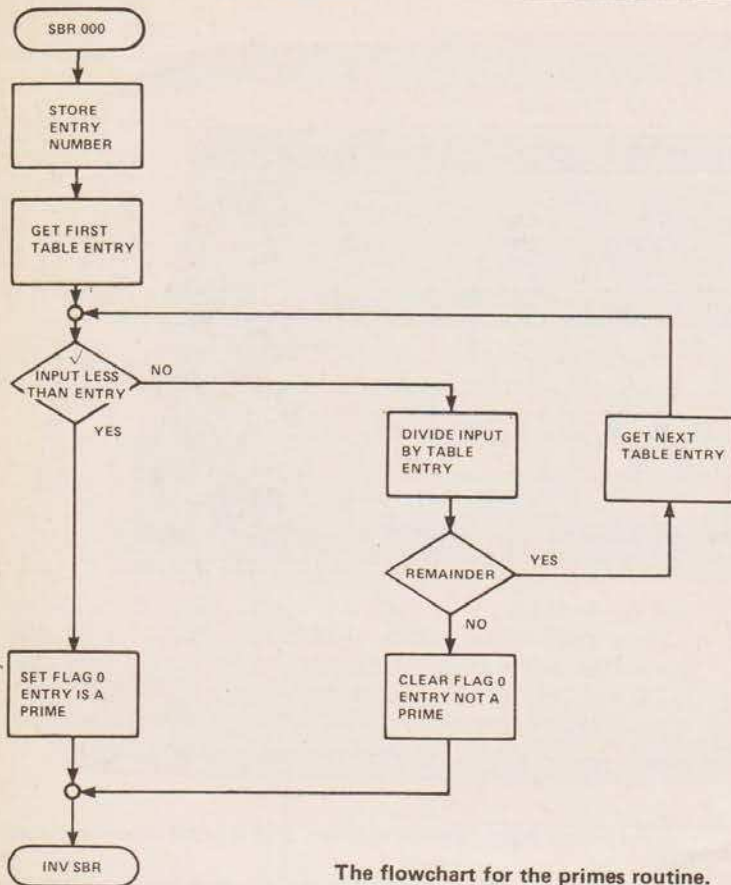


Primes and Factors

000	42	STO	051	00	00	102	87	IFF
001	02	02	052	87	IFF	103	00	00
002	05	5	053	00	00	104	01	01
003	42	STO	054	00	00	105	13	13
004	00	00	055	36	36	106	69	DP
005	73	RC*	056	73	RC*	107	21	21
006	00	00	057	00	00	108	43	RCL
007	32	X↑T	058	66	PAU	109	02	02
008	43	RCL	059	87	IFF	110	66	PAU
009	02	02	060	01	01	111	72	ST*
010	34	FX	061	00	00	112	01	01
011	22	INV	062	73	73	113	43	RCL
012	77	GE	063	99	PRT	114	03	03
013	00	00	064	22	INV	115	32	X↑T
014	33	33	065	49	PRD	116	43	RCL
015	53	(066	02	02	117	01	01
016	43	RCL	067	71	SBR	118	77	GE
017	02	02	068	00	00	119	00	00
018	55	+	069	05	05	120	36	36
019	00	0	070	61	GTD	121	02	2
020	32	X↑T	071	00	00	122	44	SUM
021	54)	072	52	52	123	02	02
022	22	INV	073	02	2	124	71	SBR
023	59	INT	074	44	SUM	125	00	00
024	67	EQ	075	02	02	126	02	02
025	00	00	076	71	SBR	127	61	GTD
026	32	32	077	00	00	128	01	01
027	69	DP	078	02	02	129	01	01
028	20	20	079	61	GTD	130	76	LBL
029	61	GTD	080	00	00	131	11	A
030	00	00	081	52	52	132	43	RCL
031	05	05	082	76	LBL	133	03	03
032	22	INV	083	15	E	134	32	X↑T
033	86	STF	084	68	NOP	135	04	4
034	00	00	085	01	1	136	42	STO
035	92	RTN	086	42	STO	137	01	01
036	43	RCL	087	04	04	138	73	RC*
037	02	02	088	02	2	139	01	01
038	99	PRT	089	42	STO	140	66	PAU
039	22	INV	090	05	05	141	43	RCL
040	86	STF	091	03	3	142	01	01
041	01	01	092	42	STO	143	22	INV
042	92	RTN	093	06	06	144	77	GE
043	76	LBL	094	06	6	145	01	01
044	12	B	095	42	STO	146	48	48
045	86	STF	096	01	01	147	92	RTN
046	01	01	097	05	5	148	69	DP
047	76	LBL	098	71	SBR	149	21	21
048	13	C	099	00	00	150	61	GTD
049	71	SBR	100	00	00	151	01	01
050	00	00	101	22	INV	152	38	38
						153		

The primes and factors program listing. Don't forget to load STO 03.



The flowchart for the primes routine.

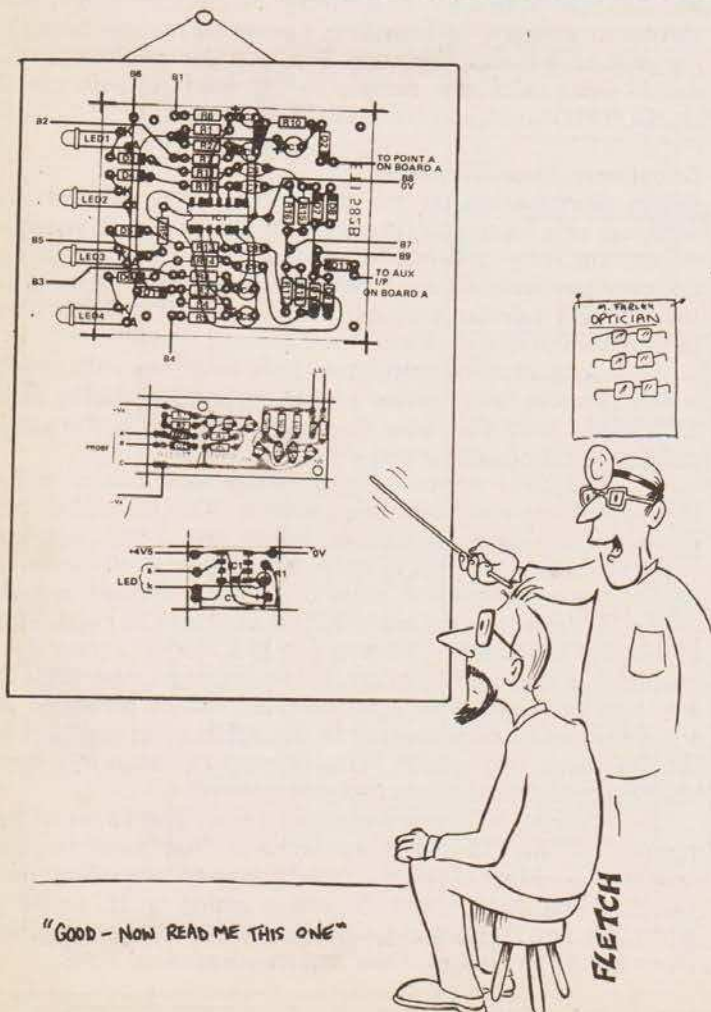
The TI 59 programmable calculator can be used to study numbers up to 249001 (22201 for the TI 58) using available memory capacity. Initially the program at Label E calculates and stores the first 96 primes. These can then be used to factorise an input entry up to the limiting number, or to determine the intermediate primes. The initial store procedure takes about 25 minutes and the program at Label A can be used to view the table contents.

The flowchart illustrates the mathematics involved, and since there is only one even prime (2) the "next" prime entry at Label B requires an odd number entry to look for an answer.

Obviously the magnetic card facility of the TI 59 and the print facility of the PC100B can be used to advantage but the same program using only 40 stores and the TI 58 should prove an interesting diversion.

Program Use

Enter the desired table length (max 99 for TI 59, 39 for TI 58) in STO 3. Press E, program takes 25 minutes to run. Now press A to display the table, B to find the next prime from an entered odd number or C to factorise an entered number. The program includes print commands for use with the PC100B print cradle.



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