 TEXAS INSTRUMENTS				
6174				
(method 1)				(method 2)
Number				Number

```
=====
                        6 1 7 4
                    Kaprekar constant
=====
```

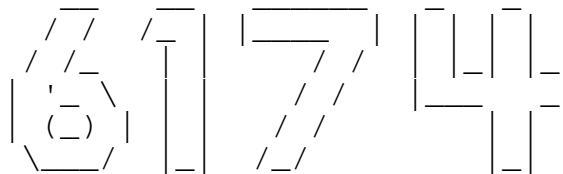
```
Enter a 4-digit number including at least one
differs from the others then
    either [ A ] (method 1)
    either [ E ] (method 2)
```

```
-----
                M E T H O D      1
-----
```

```
The program
sort the 4 digits in descending order to get
a first number abcd,
sort the 4 digits in ascending order to get a
second dcba number,
subtracts the second number from the first,
use the result as a fresh start
... etc ...
up to 6174!
```

```
-----
                M E T H O D      2
-----
```

```
The program
sort the 4 digits in descending order to get
a first number abcd,
calculate the next number = 999 (a-d) +90 (b-c)
use this result as a fresh start
... etc ...
up to 6174!
```



000	76	LBL	051	43	RCL	102	43	RCL	153	98	ADV
001	11	A	052	03	03	103	07	07	154	69	OP
002	47	CMS	053	65	*	104	69	OP	155	26	26
003	42	STO	054	01	1	105	06	06	156	43	RCL
004	09	09	055	00	0	106	69	OP	157	06	06
005	76	LBL	056	00	0	107	00	00	158	99	PRT
006	16	A'	057	54	)	108	43	RCL	159	09	9
007	18	C'	058	85	+	109	08	08	160	09	9
008	53	(	059	53	(	110	75	-	161	09	9
009	43	RCL	060	43	RCL	111	43	RCL	162	65	*
010	01	01	061	02	02	112	07	07	163	43	RCL
011	65	*	062	65	*	113	95	=	164	07	07
012	01	1	063	01	1	114	69	OP	165	85	+
013	00	0	064	00	0	115	06	06	166	09	9
014	00	0	065	54	)	116	32	X/T	167	00	0
015	00	0	066	85	+	117	06	6	168	65	*
016	54	)	067	43	RCL	118	01	1	169	43	RCL
017	85	+	068	01	01	119	07	7	170	08	08
018	53	(	069	95	=	120	04	4	171	95	=
019	43	RCL	070	42	STO	121	32	X/T	172	69	OP
020	02	02	071	08	08	122	42	STO	173	00	00
021	65	*	072	98	ADV	123	09	09	174	69	OP
022	01	1	073	69	OP	124	22	INV	175	06	06
023	00	0	074	26	26	125	67	EQ	176	32	X/T
024	00	0	075	43	RCL	126	16	A'	177	06	6
025	54	)	076	06	06	127	47	CMS	178	01	1
026	85	+	077	99	PRT	128	91	R/S	179	07	7
027	53	(	078	02	2	129	76	LBL	180	04	4
028	43	RCL	079	00	0	130	15	E	181	32	X/T
029	03	03	080	00	0	131	47	CMS	182	42	STO
030	65	*	081	00	0	132	42	STO	183	09	09
031	01	1	082	00	0	133	09	09	184	22	INV
032	00	0	083	00	0	134	76	LBL	185	67	EQ
033	54	)	084	00	0	135	10	E'	186	10	E'
034	85	+	085	00	0	136	18	C'	187	47	CMS
035	43	RCL	086	69	OP	137	43	RCL	188	91	R/S
036	04	04	087	04	04	138	04	04	189	76	LBL
037	95	=	088	43	RCL	139	75	-	190	18	C'
038	42	STO	089	08	08	140	43	RCL	191	04	4
039	07	07	090	69	OP	141	01	01	192	22	INV
040	53	(	091	06	06	142	95	=	193	28	LOG
041	43	RCL	092	06	6	143	42	STO	194	22	INV
042	04	04	093	04	4	144	07	07	195	49	PRD
043	65	*	094	00	0	145	43	RCL	196	09	09
044	01	1	095	00	0	146	03	03	197	04	4
045	00	0	096	00	0	147	75	-	198	42	STO
046	00	0	097	00	0	148	43	RCL	199	00	00
047	00	0	098	00	0	149	02	02	200	76	LBL
048	54	)	099	00	0	150	95	=	201	34	SQR
049	85	+	100	69	OP	151	42	STO	202	43	RCL
050	53	(	101	04	04	152	08	08	203	09	09



204	22	INV			
205	59	INT			
206	65	*			
207	01	1			
208	00	0			
209	95	=			
210	42	STO			
211	09	09			
212	59	INT			
213	72	ST*			
214	00	00			
215	97	DSZ			
216	00	00			
217	34	SQR			
218	04	4			
219	42	STO			
220	00	00			
221	76	LBL			
222	39	COS			
223	73	RC*			
224	00	00			
225	32	X/T			
226	04	4			
227	42	STO			
228	05	05			
229	76	LBL			
230	38	SIN			
231	73	RC*			
232	05	05			
233	77	GE			
234	30	TAN			
235	63	EX*			
236	00	00			
237	72	ST*			
238	05	05			
239	73	RC*			
240	00	00			
241	32	X/T			
242	76	LBL			
243	30	TAN			
244	97	DSZ			
245	05	05			
246	38	SIN			
247	97	DSZ			
248	00	00			
249	39	COS			
250	92	RTN			



L A B E L S		
001	11	A
006	16	A'
130	15	E
135	10	E'
190	18	C'
201	34	SQR
222	39	COS
230	38	SIN
243	30	TAN

Adr	Branch.
A'	125 67 EQ
C'	007 18 C'
C'	136 18 C'
COS	247 97 DSZ
E'	185 67 EQ
SIN	244 97 DSZ
SQR	215 97 DSZ
TAN	233 77 GE

Reg.	Instr.
00	198 42 STO
	213 72 ST*
	219 42 STO
	223 73 RC*
	235 63 EX*
01	239 73 RC*
	009 43 RCL
	067 43 RCL
02	140 43 RCL
	019 43 RCL
	060 43 RCL
03	148 43 RCL
	028 43 RCL
	051 43 RCL
04	145 43 RCL
	035 43 RCL
	041 43 RCL
05	137 43 RCL
	227 42 STO
	231 73 RC*
06	237 72 ST*
	075 43 RCL
	156 43 RCL
07	038 42 STO
	102 43 RCL
	111 43 RCL
	143 42 STO
	163 43 RCL
08	070 42 STO
	088 43 RCL
	108 43 RCL
	151 42 STO
	169 43 RCL
09	003 42 STO
	122 42 STO
	132 42 STO
	182 42 STO
	195 49 PRD
	202 43 RCL
	210 42 STO

