

1	ORG 0000H	54	MOV 30H,#00H	108	RRC A
2	SJMP MAIN	55	LJMP T0_END1	109	JC NEXT1
3	ORG 000BH	56	NEXT1_TIME0:CJNE A,#02H,	110	INC R4
4	AJMP TIME0		OPERATE ;如果30H不等于	111	CJNE R4,#04H,LOOP
5	ORG 001BH		2, 跳转到操作OPERATE	112	NEXT1:PUSH ACC
6	AJMP TIME1	57	;如果30H等于2, 则将30H清零,	113	MOV A,R4
7	ORG 0080H		返回中断	114	MOV B,#04H
8		58	MOV 30H,#00H	115	MUL AB
9	MAIN:	59	LJMP T0_END1	116	MOV R5,A
10	MOV R1,#50H	60	K1:	117	POP ACC
11	LOOP_MAIN:	61	INC 30H	118	
12	MOV @R1,#00H	62	MOV A,30H	119	POP ACC
13	INC R1	63	CJNE A,#03H,T0_END1 ;如果	120	SWAP A
14	CJNE R1,#58H,LOOP_MAIN		30H没三次, 则返回中断	121	MOV R4,#0H
15	MOV R1,#50H	64	;30H判断按下三次, 开始判断是哪	122	LOOP2:
16	MOV 52H,#0DH		一个被按下	123	RRC A
17	MOV 55H,#0DH	65	MOV P1,#0FH	124	JC NEXT2
18		66	MOV A,P1	125	INC R4
19	MOV P2,#0FFH ;灯全灭	67	CPL A	126	CJNE R4,#04H,LOOP2
20	MOV P0,#0FFH;P0口的显示值	68	ANL A,#0FH	127	
21	MOV 30H,#00H	69		128	NEXT2:MOV A,R5
22	MOV 31H,#0FFH	70	H4:	129	ADD A,R4
23	MOV TMOD,#11H	71	SETB P1.4	130	MOV 31H,A
24	MOV TH0,#0F8H	72	PUSH ACC	131	; 返回中断
25	MOV TL0,#030H	73	ANL A,P1	132	
26	SETB EA	74	JZ H5	133	T0_END1:
27	SETB ET0	75	POP ACC	134	POP PSW
28	SETB TR0	76	SETB ACC.4	135	POP A
29	MOV TH1,#0F8H	77	LJMP LK	136	RETI
30	MOV TL1,#050H	78		137	
31	MOV 42H,#0FEH ;P2口的值	79		138	OPERATE:
32	MOV 43H,#00H	80	H5:	139	MOV 30H,#00H
33	MOV 44H,#01H	81	POP ACC	140	MOV 43H,#00H
34	MOV R0,#50H	82	SETB P1.5	141	MOV A,44H
35	MOV 4AH,#0CH	83	PUSH ACC	142	CJNE A,#0FFH,
36	MOV 4BH,#0FEH	84	ANL A,P1		NEXTX_OPERATE
37	SETB ET1	85	JZ H6	143	MOV R0,#50H
38	SETB TR1	86	POP ACC	144	MOV 44H,#01H
39	MOV DPTR,#TABLE	87	SETB ACC.5	145	
40	SJMP \$	88	LJMP LK	146	NEXTX_OPERATE:
41		89		147	MOV A, 31H
42	TIME0:	90	H6:	148	;判断31H的值
43	PUSH A	91	POP ACC	149	CJNE A,#08H,OPERATE1
44	PUSH PSW	92	SETB P1.6	150	MOV 44H,#01H
45	MOV TH0,#0F8H	93	PUSH ACC	151	MOV R0,#50H
46	MOV TL0,#030H	94	ANL A,P1	152	LJMP T0_END
47	LCALL KS	95	JZ H7	153	OPERATE1:CJNE A,#0BH,
48	JNZ K1 ;如果有按键按下, 跳转到	96	POP ACC		OPERATE2
	K1	97	SETB ACC.6	154	MOV 44H,#0FFH
49	;如果没有按键按下, 判断是什么情	98	LJMP LK	155	MOV 4AH,#0CH
	况下没有按下	99		156	MOV 4BH,#0FEH
50	MOV A,30H	100	H7:	157	MOV TH1,#0F8H
51	JZ T0_END1 ;如果30H为0, 返	101	POP ACC	158	MOV TL1,#030H
	回中断	102	SETB ACC.7	159	LJMP T0_END
52	CJNE A,#01H,NEXT1_TIME0	103		160	OPERATE2:CJNE A,#0CH,
	;如果30H不等于1, 跳转到操	104	LK:		OPERATE3
	作NEXT1_TIME0	105	MOV R4,#00H	161	PUSH A
53	;如果30H等于1, 则将30H清零,	106	PUSH ACC	162	MOV A,44H
	返回中断	107	LOOP:	163	DEC R0

164	RR A	209	CJNE R0,#53H,OPERATE10	261	SJMP T1_END
165	CJNE R0,#4FH, NEXT_OPERATE	210	SJMP T0_END	262	
166	MOV R0,#57H	211	OPERATE10:	263	COUNT0:
167	SJMP CONTINUE_OPERATE	212	CJNE R0,#56H,OPERATE8	264	MOV A,44H
168	NEXT_OPERATE:CJNE R0 ,#52H, NEXT2_OPERATE	213	SJMP T0_END	265	CJNE A,#0FFH,COUNT
169	DEC R0	214	OPERATE8:	266	LCALL ADJUST_TIME1
170	RR A	215	CJNE A,#09H,OPERATE6	267	COUNT:
171	SJMP CONTINUE_OPERATE	216	MOV @R0,#09H	268	MOV A,@R1
172	NEXT2_OPERATE:CJNE R0 ,#55H, CONTINUE_OPERATE	217	LJMP T0_END	269	CJNE A,#00H,COUNT1
173	DEC R0	218	OPERATE6:	270	MOV A,#0AH
174	RR A	219	INC A	271	SJMP COUNT3
175	CONTINUE_OPERATE:	220	MOV @R0,A	272	COUNT1:
176	MOV 44H,A	221		273	CJNE A,#09H,COUNT2
177	POP A	222	T0_END:	274	MOV A,#09H
178	LJMP T0_END	223	POP PSW	275	SJMP COUNT3
179		224	POP A	276	COUNT2:
180	OPERATE3:CJNE A,#0FH, OPERATE4	225	RETI	277	CJNE A,#0DH,COUNT4
181	PUSH A	226		278	MOV A,#0DH
182	MOV A,44H	227	;扫描显示罢了	279	SJMP COUNT3
183	INC R0	228	TIME1:	280	COUNT4:
184	RL A	229	PUSH A	281	DEC A
185	CJNE R0,#58H, NEXT_OPERATE2	230	PUSH PSW	282	COUNT3:
186	MOV R0,#50H	231	;扫描显示数码管，一个灯亮2ms	283	MOVC A,@A+DPTR
187	SJMP	232	MOV TH1,#0F8H	284	MOV P0, A
188	CONTINUE_OPERATE2	233	MOV TL1,#030H	285	
189	INC R0	234		286	T1_END:
190	RL A	235	;数码管左移	287	POP PSW
191	SJMP	236	MOV A,42H	288	POP A
192	CONTINUE_OPERATE2	237	RL A	289	RETI
193	NEXT2_OPERATE2:CJNE R0 ,#52H, NEXT2_OPERATE2	238	MOV 42H,A	290	
194	RL A	239	MOV P2,A	291	KS:
195	SJMP	240	;P0显示R1指向的值	292	MOV P1,#0FH ;将P1口的低四位 设置为高电平
196	CONTINUE_OPERATE2	241	INC R1	293	MOV A,P1 ;将P1口的值赋给A,如 果在这个瞬间有按键按下，A 的值会改变
197	NEXT2_OPERATE2:CJNE R0 ,#55H, CONTINUE_OPERATE2	242	CJNE R1,#58H,NEXT_TIME1	294	XRL A,#0FH ;将A与0FH异或， 如果有按键按下，A的值不再 是#01FH,最后结果A不为0
198	INC R0	243	MOV R1,#50H	295	RET
199	RL A	244	;如果当前状态是计数，且不是当前 指针指向的位置，显示R1指 向的值	296	;2*
200	SJMP	245	NEXT_TIME1:	297	ADJUST_TIME1:
201	CONTINUE_OPERATE2	246	ANL A,44H	298	MOV A,4AH
202	NEXT2_OPERATE2:CJNE R0 ,#52H, NEXT2_OPERATE2	247	JNZ COUNT0	299	ADD A,#01H
203	RL A	248	;特殊状况，当前为调试模式，且要 显示被调试数43H在0~31之 间，P0为R1指向的值，否则 P0为FFH	300	MOV 4AH,A
204	CONTINUE_OPERATE2:	249	;2*8*62=1 1s亮一下	301	MOV A,4BH
205	MOV 44H,A	250	INC 43H	302	ADDC A,#00H
206	POP A	251	MOV A,43H	303	MOV 4BH,A
207	LJMP T0_END	252	CJNE A,#03EH, NEXT2_TIME1	304	;如果进位了，说明1S已经到了
208	OPERATE4:CJNE A,#0AH, OPERATE5	253	MOV 43H,#00H	305	JC NEXT_ADJUST_TIME1
209	MOV @R0,#00H	254	SJMP COUNT	306	RET
210	LJMP T0_END	255	NEXT2_TIME1:CJNE A,#01 FH,NEXT3_TIME1	307	NEXT_ADJUST_TIME1:
211		256	MOV P0,#0FFH	308	MOV 4AH,#0CH
212	OPERATE5:JNC T0_END	257	SJMP T1_END	309	MOV 4BH,#0FEH
213	CJNE A,#04H,OPERATE7	258		310	MOV A,57H
214	SJMP OPERATE6	259	NEXT3_TIME1:JC COUNT	311	INC A
215	OPERATE7:	260	MOV P0,#0FFH	312	MOV 57H,A
216	JC OPERATE8			313	CJNE A,#0AH,ADJUST_RET
217				314	MOV 57H,#00H

315	MOV A,56H	327	MOV 53H,A	339	MOV 50H,#00H
316	INC A	328	CJNE A,#06H,ADJUST_RET	340	ADJUST_RET:
317	MOV 56H,A	329	MOV 53H,#00H	341	RET
318	CJNE A,#06H,ADJUST_RET	330	MOV A,51H	342	
319	MOV 56H,#00H	331	INC A	343	TABLE:
320	MOV A,54H	332	MOV 51H,A	344	DB 7EH,0A2H,62H,74H
321	INC A	333	CJNE A,#0AH,ADJUST_RET	345	DB 61H,21H,7AH,20H
322	MOV 54H,A	334	MOV 51H,#00H	346	DB 30H,60H,28H,25H,
323	CJNE A,#0AH,ADJUST_RET	335	MOV A,50H	347	DB 0A9H,0F7H,0A1H,0B1H
324	MOV 54H,#00H	336	INC A	348	
325	MOV A,53H	337	MOV 50H,A	349	END
326	INC A	338	CJNE A,#0AH,ADJUST_RET		