(5)

```
main: MVI A, 43H        2100   3E
                        2101   43

      STA, 2000H        2102   32
                        2103   00
                        2104   20

      CALL isalpha      2105   CD
                        2106
                        2107
      RST5              2108   EF
isalpha: LDA 2000H      2109   3A
                        210A   00
                        210B   20

isalpha: CALL islower   2109   CD
                        210A
                        210B

      JC trone          210C
                        210D
```

EDIT

CPI, 01H   210C   FE
                  210D   01

JZ true   210E   ~~D~~ CA
                  210F
                  2110

JMP false   2111   C3
                  2112
                  2113
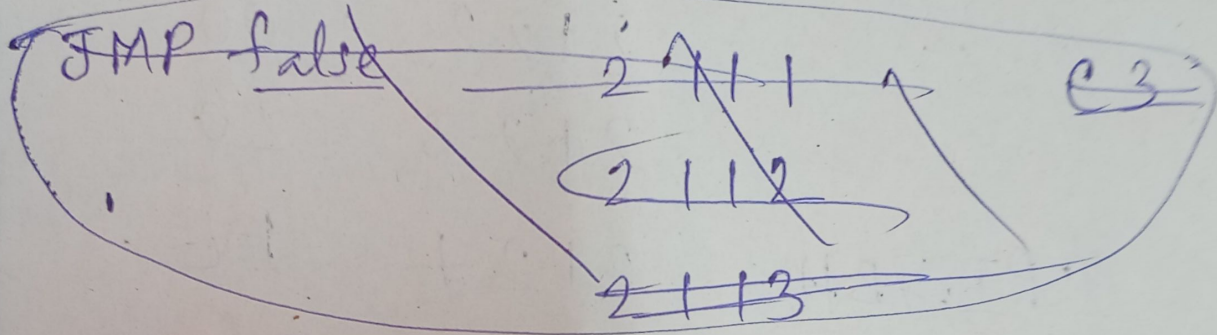
CALL isupper   2111   CD
                  2112
                  2113

CPI, 01H   2114   FE
                  2115   01
JZ true   2116   CA
                  2117
                  2118

MVI A, 00H   2119   3E
                  211A   00
true: MVI A, 01H 211B   3E
                  211C   01

STA 2001H	211D	32
	211E	01
	211F	20
RET	2120	C9
islower: LDA 2000H	2121	3A
	2122	00
	2123	20
CPI, 7BH	2124	FE
	2125	7B
JC next	2126	DA
	2127	2C
	2128	21
JMP false	2129	C3
	212A	31
	212B	21
next: CPI, 60H	212C	FE
	212D	60

JNC true	212E	D2
	212F	36
	2130	21
false MVI A, 00H	2131	3E
	2132	00
JMP End	2133	C3
	2134	38
	2135	21
true: MVI A, 01H	2136	3E
	2137	01
End: RET	2138	C9
supper: LDA 2000H	2139	3A
	213A	00
	213B	20
CPI, 5BH	213C	FE
	213D	5B
JC next	213E	DA
	213F	44
	2140	21
JMP false	2141	C3
	2142	49
		21

Label	Instruction	Address	Opcode
next:	CPI, 40H	2144	FE
		2145	40
	JNC true	2146	D2
		2147	4E
		2148	21
false	MVI A, 00H	2149	3E
		214A	00
	JMP End	214B	C3
		214C	50
		214D	21
true:	MVI A, 01H	214E	3E
		214F	01
End:	RET	2150	C9