

2/7/2006 Group exercise

10	00000011	00010100
11	00000101	00010101
12	00000111	00010110
13	00000100	00010111
14	00000010	00010111
15	00000111	00010110
16	00000100	00010111
17	00000010	00010111
18	00001101	00000000
19	00001111	00001010
20	00000000	00001111
21	00000000	000100101
22	00000000	0000000010
23		

TIC program

data area

TIC1
T1

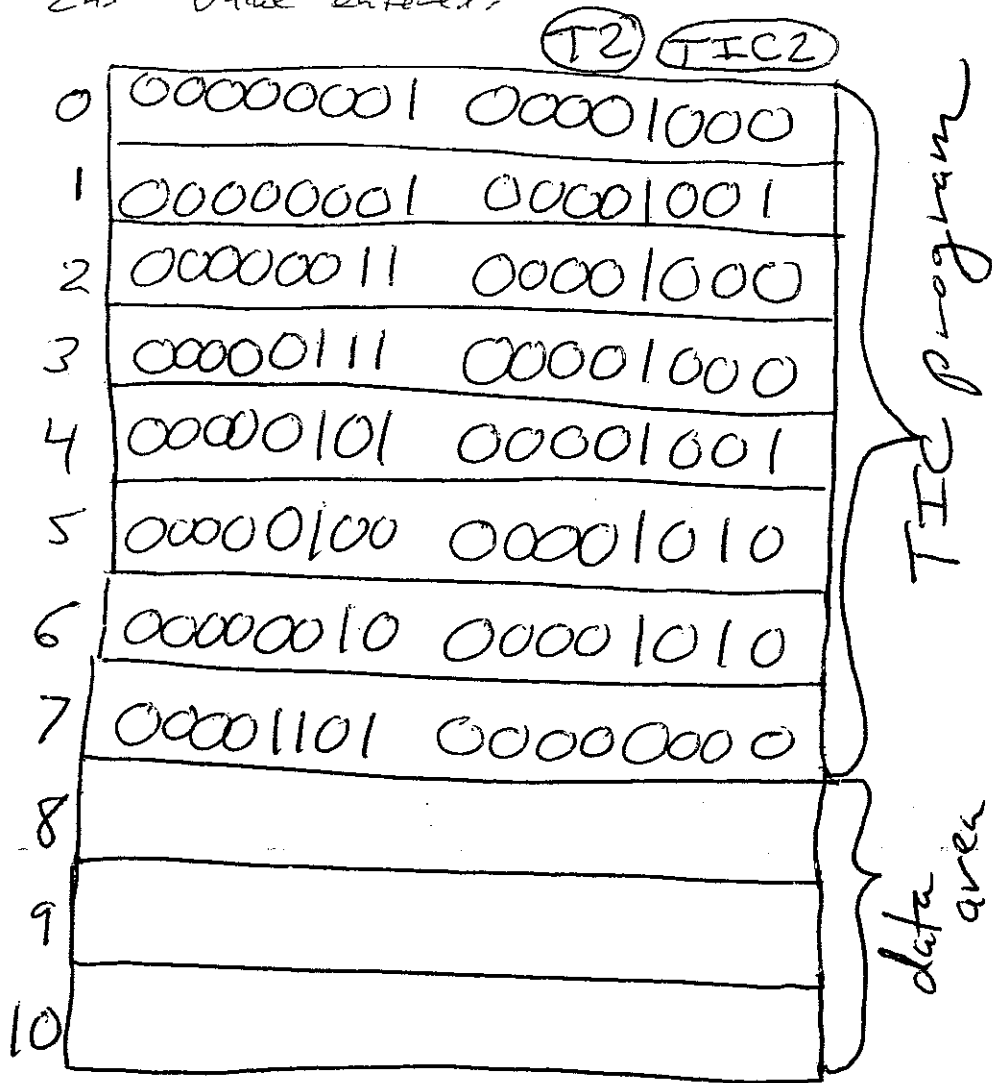
PC	
ACC	

Show "history" or trace of execution but in base ten decimal.

PC 18 19 20 21 22

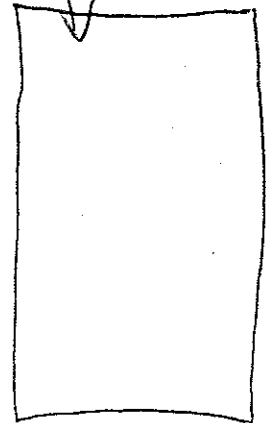
Assume the input to the program that the user typed at the keyboard was the integers 8 and 200, in that order, i.e. 8 was 1st and 200 was 2nd value entered.

Name _____



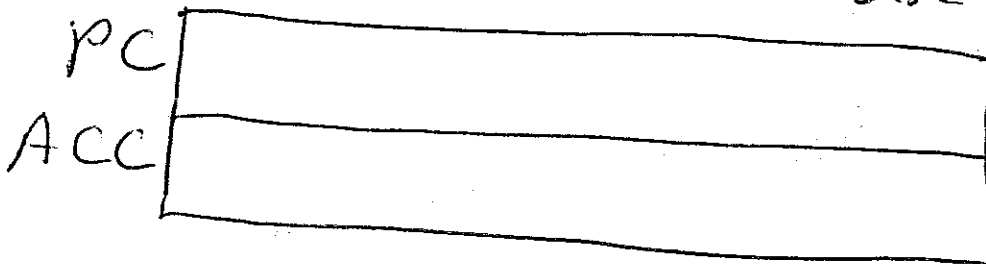
③ What is the output of the above program (in base ten)?

output screen
or printer



① Show the (binary) contents of locations at addresses 8, 9 and 10 when the computer finishes execution.

② Fill in PC and ACC and show "history" of or trace of execution (in base ten decimal).



Example



0	0000 0011	0000 1100
1	0000 0110	0000 1101
2	0000 1010	0000 1010
3	0000 0011	0000 1111
4	0000 0111	0000 1110
5	0000 0100	0000 1111
6	0000 0011	0000 1101
7	0000 0101	0001 0000
8	0000 0100	0000 1101
9	0000 1100	0000 0000
10	0000 0010	0000 1111
11	0000 1101	0000 0000
12	0 —————	00 0011
13	0 —————	00 0001
14	0 —————	00 0101
15	0 —————	00 00001
16	0 —————	0000001

TIC program

TIC3
T3

data

① What is the output of the following TIC program?



output screen

②

PC	
ACC	

show history (base ten OK)

③ Show 12, 13, 14, 15, and 16 in base ten too, with history.