Problem 1:

1.   Tag 1 creates an integer variable called int_var. Tag 2 closes the file my_file_pointer that has been opened.

4.   No, I did not get a negative time.

5.   No, there does not exist a change.

6.   The structure of timeval contains the time in seconds which is an int. struct is a standard data type because even c++ contains it and therefore is not platform specific.

Problem 3:

	Sensors										Actuators			
S.No	DOS	DSBF	ER	DC	KIC	DLC	BP	CM	PS	HSCD	BELL	DLA	BA	PAA
1	X	**F**	**T**	X	X	X	X	X	X	X	**T**	X	X	X
2	X	X	**T**	**F**	X	X	X	X	X	X	**T**	X	X	X
3	X	**T**	**T**	**T**	X	X	X	X	X	X	**F**	X	X	X
4	X	X	**F**	X	X	X	X	X	X	X	**F**	X	X	X
5	**F**	X	X	X	**T**	**T**	X	X	X	X	X	**F**	X	X
6	**T**	X	X	X	**T**	**T**	X	X	X	X	X	**T**	X	X
7	X	X	X	X	X	X	**T**	**T**	X	X	X	X	**T**	X
8	X	X	X	X	X	X	**T**	**F**	X	X	X	X	**F**	X
9	X	X	X	X	X	X	**F**	**T**	X	X	X	X	**F**	X
10	X	X	X	X	X	X	X	X	**T**	**T**	X	X	X	**T**
11	X	X	X	X	X	X	X	X	**F**	**T**	X	X	X	**F**
12	X	X	X	X	X	X	X	X	**F**	**F**	X	X	X	**F**

Problem 5:

3. The solution in problem 4 runs faster as we are using less variables therefore less storage space is needed. The lines that are to be run in problem 4 are lesser than problem 3 and therefore runs faster.