CSE324 Quiz #1 Name: ----------

True or False(T/F): Reds are TRUEs

1) High Level Languages' (HLLs) programs are much better and more efficient to use than Low Level Languages (micro/macro coding)--LLL, for any application.
(NOP, not for "any" application, some will require speed and do not care about other factors, hence LLL will be in order)

2) The core ***hardware*** language micro-programmable machines is the fastest to execute among all approaches to program a machine.
(hardwired computers are faster)

3) In ***micro***-coded machines, every ***μ***-instruction (in the ROM) will have bits that control gates at the ***macro***-level architecture.

4) Every macro machine instruction, when interpreted will invoke a corresponding ***μ***-routine from the ROM.

5) A computer hardware that can run seven HLLs and LLLs is considered to be seven ***virtual*** systems (computers) over the same hosting hardware.

6) The HLLs types' *integer*, *real*, *stacks*, *queues*, and *float* are all system built-in *true* abstract data types (ADTs).
(ONLY basic types int&real are system built-in true ADT)

7) We study HLLs mainly to help in a better design of computer systems.

8) HLLs has to provide means to *secure* the use (manipulation) of ***data*** in the code.
Sure! Otherwise there is no meaningful/correct program outputs.

9) The operating system interfaces between the HLLs and the core hardware, abstracting (i.e., masking) the complex hardware details to the user.
(See the System Layers Figures in the first Lecture)

10) In the programming language design field, it is always the case that when you gain in one (or more) of the following direction(s): *abstraction*, *power*, *readability*, *modularity*, *speed of execution*, and *language security* you would lose in one (or more) direction(s).

(No Free Lunch!)