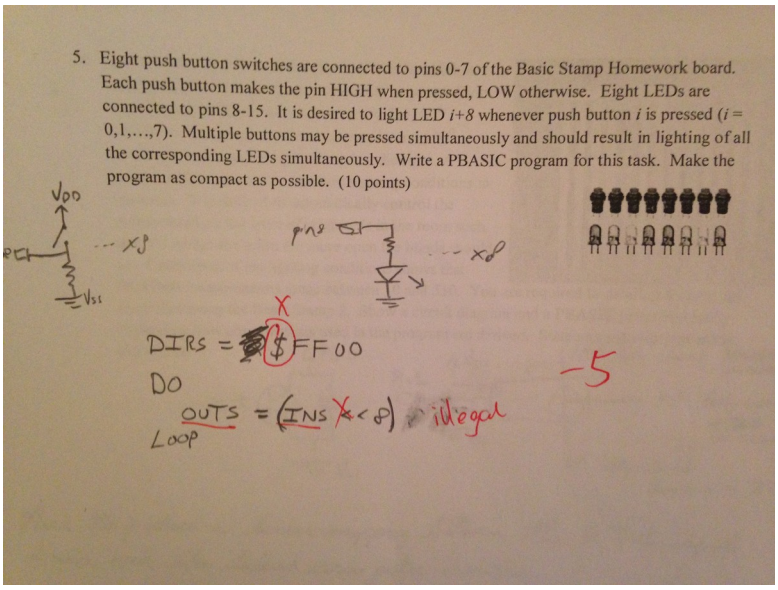
Ben Lorenzetti
Embedded Systems Lab

Exam 1 Regrading

On exam one, I think that 7 of the points taken off were not justified.

Problem 5: 5pts off



The dollar sign is the hexadecimal indicator in PBASIC. OUTS and INS are both valid, Word-size registers and bitshift left is a valid operation in PBASIC, used just like it is in C.

To demonstrate that my code works, I loaded it onto my Basic STAMP board and recorded a video. See attached file: **Problem-5-Demo.MOV.**

Problem 6: 2pts off

I lost 2 points on my answer for problem 6.

The first point was apparently for having too small a charge time. I put 1 millisecond and the grader wrote 100. However, for lab 3 I used 1 millisecond and it worked just fine. You can see my lab 3 implementation (T_RC_CHARGE CON 1) on page 6 of the attached file **lab-3-report.pdf**. Assuming a current limiting resistor of 220 ohms,

$$5\tau = 5*RC = 5 * 0.1uF * 220\ \Omega = 0.11\ ms$$

So 1 ms is more than adequate.

The second point I missed was for essentially the same code I was marked for in problem 5.