

1. (B&O 2.59) Write a C expression that given 2 unsigned ints x and y will yield a word consisting of the least significant byte of x and the remaining bytes of y . For operands $x = 0x89ABCDEF$ and $y = 0x76543210$ this would give $0x765432EF$.
2. (from B&O 2.61) Write C expressions that evaluate to 1 when the following conditions are true and to 0 when they are false. Assume x is of type int.
 - A. Any bit of x equals 0
 - B. Any bit in the least significant byte of x equals 1
3. (based on B&O 2.91c) The IEEE 754 approximation for π has the hexadecimal representation $0x40490FDB$. At what bit position (relative to the binary point) does this differ from the common approximation 22.0/7.0?

Submission: Submit your answers before midnight on the due date by uploading to Teams a single PDF file containing your answers to all 3 questions. The name of the file should be of the form Assg2Firstname.pdf. For example, in my case the file name would be Assg2Matthew.pdf