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1.
Assume:
int x = rand();
int y = rand();
unsigned ux = (unsigned) x;
Are the following statements always true?
a.
ux >> 3 == ux/8
b.
given x > 0,
((x << 5) >> 6) > 0
c.
\sim x + x >= ux
d.
given x & 15 == 11,
(\sim ((x >> 3) \& (x >> 2)) << 31) >= 0
given ((x < 0) \&\& (x + x < 0))
x + ux < 0
f.
given ((x < 0) \&\& (y < 0) \&\& (x + y > 0))
((x | y) >> 30) == -1
2.
Given: x has a 4 byte value of 255
What is the value of the byte with the lowest address in a
big endian system?
b.
little endian system?
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