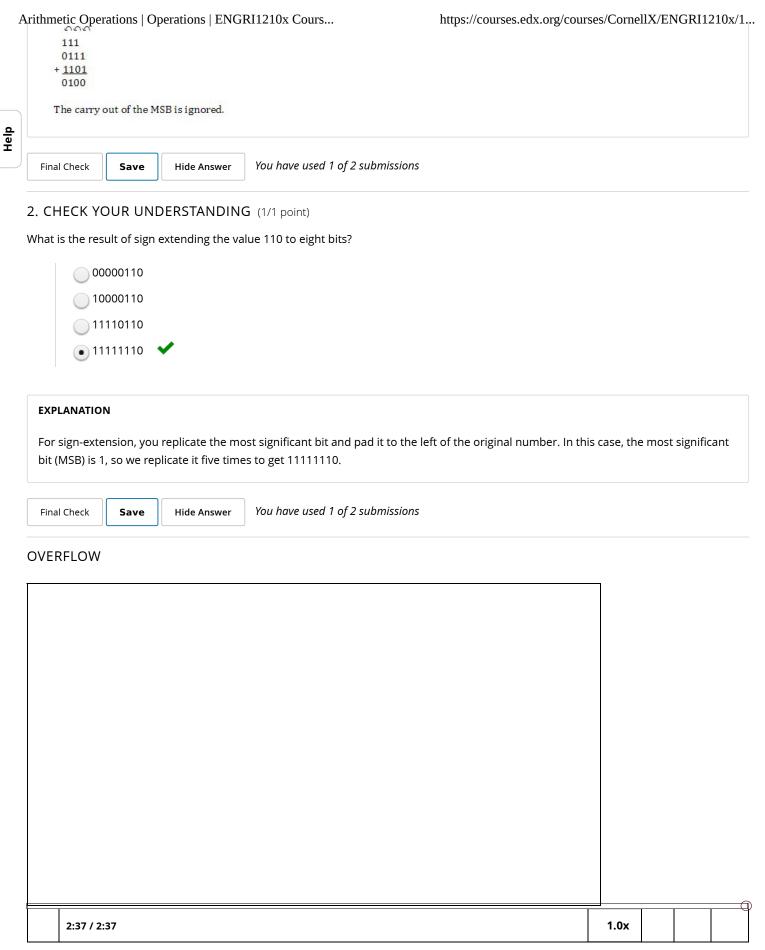
1 of 4

EXPLANATION

The two's complement of 0011 is 1101.



Help

3. CHECK YOUR UNDERSTANDING (1 point possible)

Consider adding the two's complement numbers 1111 and 0111. Did overflow occur?

- No, because the signs of both operands are the same, and the sign of the sum is different.
- 🦳 No, because the carry in to the MSB is the same as carry out of the MSB. 🛛 🗸
- Yes, because the signs of both operands are the same, and the sign of the sum is different.
- Yes, because the carry in to the MSB does not equal the carry out of the MSB.



EXPLANATION

The addition of a positive and a negative number cannot cause overflow. The carry in to the MSB is the same as the carry out (both 1).

Hide Answer

You have used 2 of 2 submissions



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2015 edX Inc.

E&XoÔ≰en edX, and the edX and Open edX logos are registered trademarks or trademarks of edX Inc.

Terms of Service and Honor Code

About edX

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

Follow Us

Facebook

Twitter

in LinkedIn

Google+

Tumblr

Meetup 04/01/2015 10:01 AM

Reddit

POWERED BY

4 of 4 04/01/2015 10:01 AM