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help with 2 questions from Quiz 4

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🖼 Karen West · 2 days ago 🔗

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Hi,

I had trouble with 2 questions on Quiz 4, and I'm wondering if anyone can help, now that the due date for that has passed.

Question 12: The following actions are needed to launch a scan chain based attack on a system with 5 flip flops. What is the correct order of the attack?

A: set TC = 0, let the system run for one clock cycle
B: set TC = 1, read the output from scan out for 5 cycles
C: set TC = 1, send state information to the system via scan in for 5 cycles
D: set TC = 0, apply the input value at the system's primary input ports

answer choice 1: C,A,D,B
answer choice 2: C,D,A,B
answer choice 3: A,B,C,D
answer choice 4: D,A,C,B

I did not pay close enough attention to this topic I guess while viewing the videos, since I thought I understood it but got it incorrect twice, before running out of time to re-take the quiz to get it correct, and I thought I knew what was going on here during the lecture video, but must have missed something! So if anyone can help, please let me know. My first take of the quiz I chose D,A,C,B and the second time C,A,D,B. So I know it's one of the other 2 choices, but I'd like to understand what I'm missing here if anyone can help.

Question 14: phi(2015) - (hint: factor 2015 into primes)
So I entered: 5 * 13 * 31
and this is incorrect. Does anyone know why? I then tried to recall the
lecture where he did phi(other smaller numbers) * phi(smaller number) as the prime factoring for other larger numbers. Can anyone help with this one?

I admit that while viewing Week 4 videos, I was mortified when I saw the mathematical proofs of Euler's formula, and my continued confusion with doing Montgomery Reduction, which was the only question I got wrong on the Week 3 quiz. I immediately thought--I'm in the wrong class for my background here, but given I was not asked to do this on the quiz, I survived another week!

Thanks once again if anyone can help with these. ;-)

Also, I live in the Boston,MA area, and if anyone has seen the news, we have had more snow here in the past few weeks than in all my 50 years on this earth--wow! Everyone here is behind schedule. My kids missed 6 days of school due to snow in the past few weeks! My husband's university also missed 5 days in a few weeks time due to the large amounts of snow. So we are all behind from constantly digging ourselves out! ;-) But if you like snow related sports, there is a lot here for you! I have not done those in recent years. So we are all in catch up mode here, doing the best we can! ;-) Wow.

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Gang Qu INSTRUCTOR · 2 days ago %

Karen,

for question 12, we talked about in the the lecture how the first three items, {A, B, C}, should be ordered. We did not mention where item D should go, but that can come easily from the basics of circuit (or a function). There is also a post on this several weeks ago.

For question 14, the hint is to think how to factor 2015 and use that to solve the question. The hint does not say that the factorization of 2015 is the correct answer.

stay warm and enjoy the snow when you still have it.
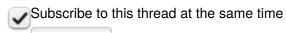
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