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We are aware that some students are receiving an error message when they submit their assignment in QMplus. There have also been reports of students receiving more than one Turnitin receipt. If you are one of these students, please see the [Technology Enhanced Learning Team](#) website.



EECS SUMMER EXAM

D SUBMISSION PAGE 2021/22

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Not yet answered Marked out of 5.00

Decide if the following sentences about Proof of Work in the Bitcoin cryptocurrency are True or False:

1. Mining difficulty for Proof of Work has increased over time. ☐
2. Every 2016 blocks the mining difficult doubles: ☐
3. As of January 2022 the difficulty target for the Bitcoin cryptocurrency is in the order of billions: ☐
4. The Bitcoin Proof of Work algorithm consumes more energy than the UK. ☐
5. A block is accepted by the network if the hash of the block and the nonce is lower than the difficulty target: ☐

☐ True ☐ False

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Consider a thresholding scheme and reputation scheme for preventing stake grinding in the proof of stake algorithm. Complete the sentences, selecting the right match.

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The thresholding scheme function is to record...

- Each validator will record the number of blocks it processes in a time period.
- If this number reaches a threshold, the validator is considered to be grinding.
- After a certain time period, the number of blocks processed is reset.



The reputation scheme function is to record...

- Each validator has a reputation value which is initialised at zero.
- If a validator processes more than a certain number of blocks in a time period the reputation value is increased.
- If a validator processes less than a certain number of blocks in a time period the reputation value is decreased.
- The selection algorithm uses the reputation value when selecting the next validator to make validators with high reputation values less likely to be selected and validators with low reputation values more likely to be selected.

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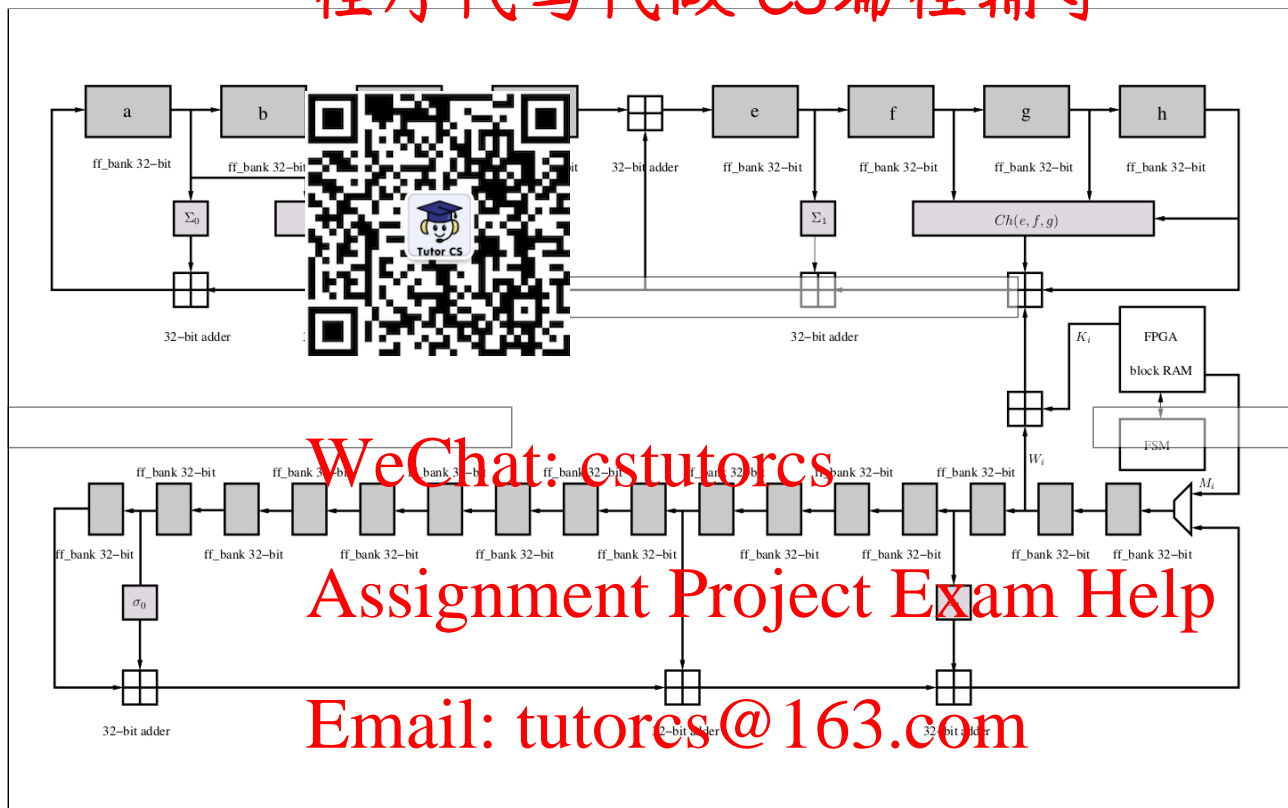
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Here you see the circuit diagram for the SHA256 algorithm. Drag and drop the mathematical description to the correct circuit. Note variable names have been changed to generic x, y, z values.

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$(x \text{ rightrotate } 6) \text{ xor } (x \text{ rightrotate } 11) \text{ xor } (x \text{ rightrotate } 25)$
 $(x \text{ and } y) \text{ xor } (x \text{ and } z) \text{ xor } (y \text{ and } z)$
 $(x \text{ rightrotate } 2) \text{ xor } (x \text{ rightrotate } 13) \text{ xor } (x \text{ rightrotate } 22)$
 $(x \text{ and } y) \text{ xor } ((\text{not } x) \text{ and } z)$

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