CSC 242 Computer Architecture and Organization Spring 2021

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# Homework 2

**Due: Friday, February 19, 11:59 pm**

**NOTE:** Please type your answers to the following questions and submit a pdf or doc on the Moodle.

1. **[10 points]** Convert the following real numbers into single precision IEEE floating point format. Give the final answer in hexadecimal and specify the sign bit, exponent bits, and significand bits. Show your work.

1. 145.75 = 01000011000100011100000000000000

Sign Bit: 0 (Positive)

Exponent Bits: 10000110 (134) + 10000001 (-127) = 7

Fraction Bits: 00100011100000000000000 = 1.001000111 \* 27 = 10010001.11 (145.75)

Hexadecimal: 0x4311c000

1. **–** 0.0565 = 10111101011001110110110010001011

Sign Bit: 1 (Negative)

Exponent Bits: 01111010 (122) + 10000001 (-127) = -5

Fraction Bits: 11001110110110010001011 = -0.11001110110110010001011 \* 2-5 = -0.0000111001110110110010001011 (-0.05649999901652336121)

Hexadecimal: 0xbd676c8b

2. **[10 points]** Compute the decimal equivalent of the following IEEE single precision numbers. Show your work.

1. 0xc1500000 = 11000001010100000000000000000000

Sign Bit: 1 (Negative)

Exponent Bits: 10000010 (130) + 10000001 (-127) = 3

Fraction Bits: 10100000000000000000000 = -1.101 \* 23 = -1101 (-13)

Hexadecimal: 0xc1500000

1. 0x43a28000 = 01000011101000101000000000000000

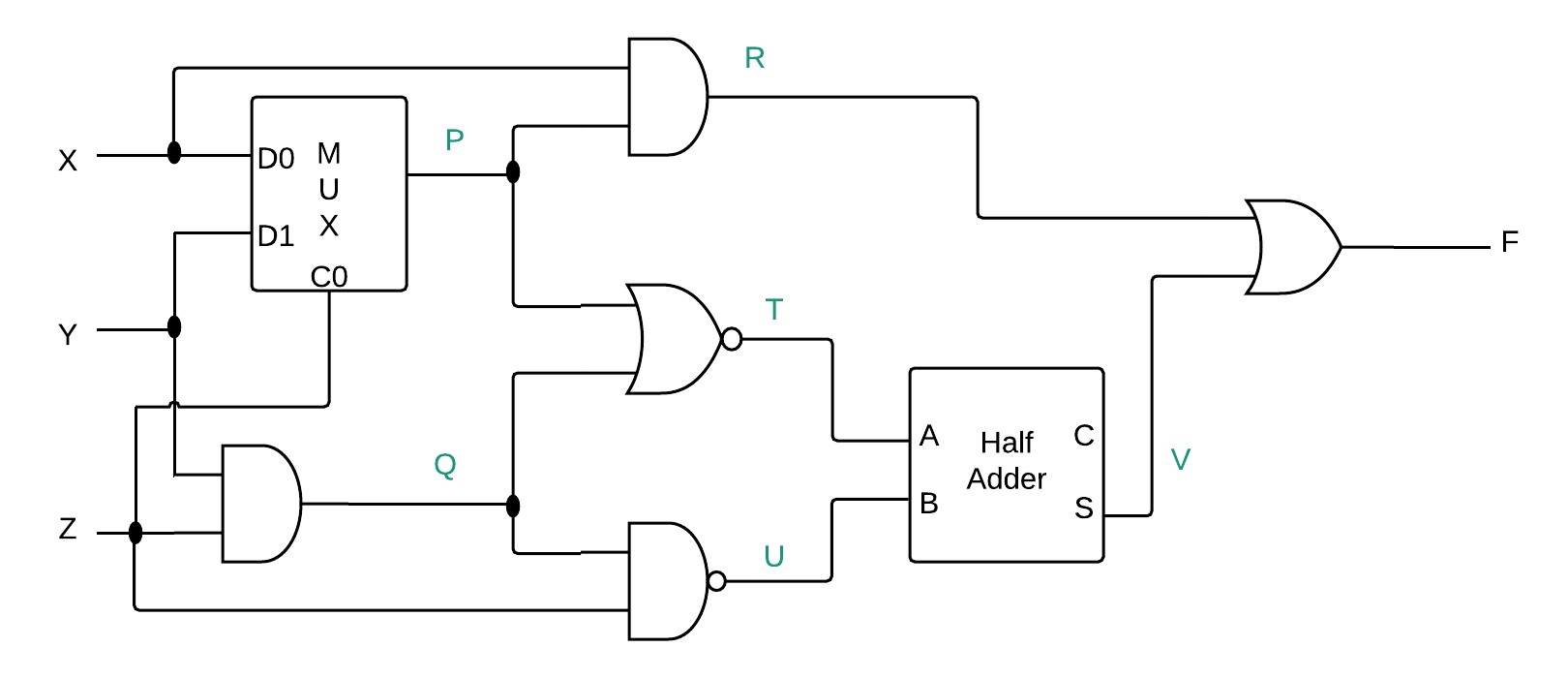
Sign Bit: 0 (Positive)

Exponent Bits: 10000111 (135) + 10000001 (-127) = 8

Fraction Bits: 01000101000000000000000 = 1.01000101 \* 28 = 101000101 (325)

Hexadecimal: 0x43a28000

3. **[24 points]** Create a truth table for the following circuit. Note letters P, Q, R, T, U, and V represent intermediate values. Include these intermediate values in your truth table.



|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| X | Y | Z | P | Q | R | T | U | V | F |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |

4(a). **[6 points]** Write a Boolean expression in the sum of product form for the following truth table.

F = !AB!C + AB!C

4(b). **[6 points]** Simplify the expression derived in 4(a) as much as possible and show the simplification.

![Text, letter

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **Output (F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 0 |

4(c). **[10 points]** Draw a logic gate circuit equivalent to the simplified expression in 4(b).

F

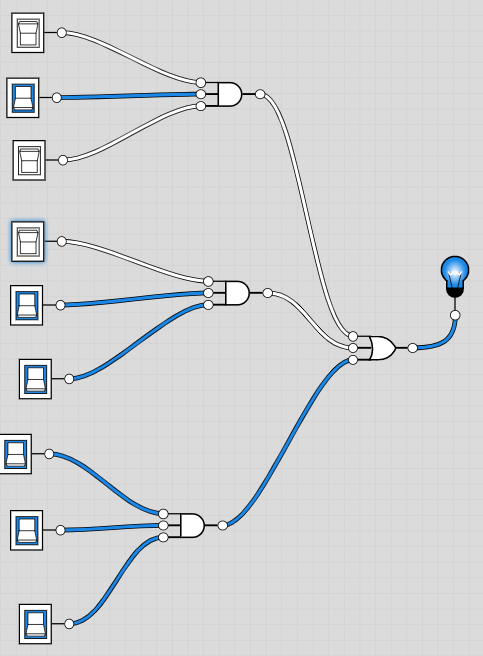
!C

B

5(a). **[6 points]** Write a Boolean expression in the sum of product form for the following truth table.

F = !AB!C + !ABC + ABC

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **Output (F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |

5(b). **[12 points]** Draw a gate circuit diagram corresponding to the expression derived in 5(a).

5(c). **[6 points]** Simplify the expression in 5(a) using Boolean algebra properties and show the simplification.

![Text, letter

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TDKRXhpZgAATU0AKgAAAAgABAExAAIAAAALAAAQSodpAAQAAAABAAAQVoglAAQAAAABAAAgouocAAcAABAMAAAAPgAAAAAc6gAAABAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD/2wBDAAMCAgMCAgMDAwMEAwMEBQgFBQQEBQoHBwYIDAoMDAsKCwsNDhIQDQ4RDgsLEBYQERMUFRUVDA8XGBYUGBIUFRT/2wBDAQMEBAUEBQkFBQkUDQsNFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBT/wAARCALQBQADASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD4IVCwP973p27ZDtLY75FMK7pNzAr6YpjAMTk8elB0scu1sgtjnJqQOsbY68Z5qJYl5ZunYU5Then0B61NkATlTHk884oUhVAIYHHX1pHZJAFwVFNhk8tduS3PerB9x0aHBON+euaN4VQB6445pTIu7buH0oYebgdD7UhIdGCx2O24npgU2Zuu1doU96AxVsgE4ORTss5J+UHrzTGNdcMDH94Lkn+lNYn5Nwyx5p3msXVgoU98U47cLz85PektNiGgmYMu1uB7d6SFfKYD+fNI3Xnrk0q53L60N33Gr9R8gDEFeCO1JuKyEABt3OD9KN/VTyfelXauOcn9fpSGNCBnHG1R2FPXaFJU4HpTccjjlvU0+QdFwDx1FMa0HBhtVgOCcHFOVN3BGF96Zw2Apxx/Kn7+c/eoJFjkEe/A4xzn+dQr97cmODU7SK2VxxjnHFMDJtAQcYpW6GgiphgSwz146Up++WJz/dpyuG5I7daAd0eSMnPWlGPKTcco3BefrSLt6bDnPb+dJ8q5A6/j6U3eW47jrirESlCzAkYCnnNNyWw4pm4jHcZ6VKrA8Bef88UhXHR7JJOEwaWTLMeOnr6UzjdgnGO39KkBw3HPrxQN6qwiqTgHr196kRRuX5gaj+XcSVOMdad5QG1g3HWlYSbWg1t3Ixk+1PTeoHHNSrtXJPSmOzSYKqQO1MHG+rJFUryOme1IG2nn73XIpnO7huehFOG3+MY7ZoGSsO6nGB/k0KpyGbtSu+I1HUHv049KaWKrn9P60BuPjXBC4z3pdxXPGWJ7UL94FuXHOB701s78jtTBabEnIdvXHGaUNx9KjK72zk4HfvUgUKuB0J570tgl7wpwy4HTORT8bl+9zTOcjGBn16U5V2MWJHzen86CIqw8Y+7n/Jp23nnkUyP3wG/zzTujZ6igsTnbnbj6U4dgO1CsWAA6d+KSL7/XBoIaHiNt3+0PSnq3yjdxn0pikcgZPNO3bcDH/wBaq6EjhJswAaezbuSMfSmIoLLu/HAp6oNrBPmPU5qSlsJGSMfKSPQU9XG5mAxzUQb5mHWnjAVR3HX3oEtB6shUnHOc05XIctv+XHOe9VwoOOmKfyxGBhR3NNi9CVmPmZ9R6U5W3Andz6Go0YcAZJ70/au3AyAPWnctX3HsSzHHPHb6UgH7v0FIpCkY6dOKQE+Y2D+NIUkSqu1VA784oORgg8tTI2JH070ozjaQBt5p7EjlIZc4OaeGVlAAwKjjYKAAeafywzj5iQaVyojtxXjt2zxS+ZuIBwCab9/GRjijHyqoFIG7jm44wBUkcmFx3pgb5T+dKoLMfTH+RQUlYFAfPGTnrSthccc+1IvzYHQk091/eDP40xgm3bjOB3p20YIHQ+vamL80eO5NK3LAAUXFa45dqtknFKzNwVCk+tR+i4zS/dYrnK1JUfdVkPVfmBPPHVjT8kJnOD2qNVOB/d/woDF29h61d+g9hWUycAAev+fWgrtbGeewpGOWwO9Iqt97OSBQJDiM4GQM96fuGQABj/PNNZTtXJwT1xSt0B7CkygVv3h7A+vtT2kA+XGT1qIZbn8qVR1z/DxSEC5/z0pyr8xyOgpAVYAA89s0m7aCAOf71JlxB/mXIX60GQbR8o3D+7SsdyjkfhTSQnIbFNEsdGwGc8gmmKu1mI578/ypwzuBHp3/AJ0MxQ9eaAeo9lCgEcd+aYmFbB5XqaA24Etk8UjMF+91xTARgy7c9G6CkY9scdcUbty4cHrxQ3ytjbgY796AEyPTmjb8uM80eZtXGMZ9f50sagr8xwPejYQnl4JX5s/pSMhbaN2eee1DSHcCT9MUpbcpOPxpCauMaNemSfpT1wMDPemjOPelRNx2kYoCxM7blJyPoKz5FDHg8Z4xVqXaqtnK8dKpbAEznI60inqDSHacnnPegR7ucZX2peoI68UiAr0+lMQhZWjyV/759qbu3MBjBUcZ9KBnJGcCmt8pyOeO1MY5fu4zx14pd4+XbTF5bLjG4U4r2GAPakNSaAnccnAPbNIT8rFjnb0xSspVVGM0R7QTxz9aVh8zEVi7KxIGO3en8feyTTSDu4XH+f507+LAHy+/86a0E3cXcvBQ4A9aMqy84Vs9qQL+9AGMEdqXy9uD37dKktbD95DAjhe5Nd14ZG/TlCtwGPv1PT9a4THzfNnGOfwrtPA+xbGZsfMJAOT/ALOc0i4nQqDt5I/OoruMGBlHzErj6VPtHIxknpSSLuXklf8AZqFua6Hnd1iOYxnnDdBVbb+8+9wOn+FaetQiG+lwAGZt3yj1OayWO+Q4qzOVyRmKtgGncbufqMVHt3Zbdkeg/nUiMV/h49fwoIEU78h2/wA+lHmZUbTgepprMMJ19CRSqy8DHPv/AJ60DvpYVWATGcUqktkDg98/zpIwqqSw+bORRuDZyRjrzSsmGyBmZQHA4xTFZl4Ucf405tw+XIOe3amKCrHcOD2FN7E2F3OUO3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Iy2Rg4+tV0X5gAevrUq5HTP41Q0NumAIPtUG3Ix2q5cLujHc96qc9KCGIuBz7UgPGO/rQcjil8zaSB096BCqcH3pzKTjB+vvTM/MSO/SpFXdjIoAXft4PX+dOJBwOh64o2lu2RQBjrjmgtMRlHBzTBkAjOfrUjZ7c0zaSeaQpDM/LtXOOtOjUbgckUjccdqIZMsfY0ySdYwV4OTRtHrn6Ugz0x15py5GSDis2aIarbVC9T70biuR0p23AGRSZ3duKQyPcWY8c9qkMgWPp9SO9Jt9frQrHbgrnmrTAU7ckg9v4aarFjwT9KRd3zjOKco8tz3DUNAPCg4IP5GpLeTa4OM1EqjzB+dKv7tsk4ArBgfX/7CPxut/CeuXXgXWrhYdM1WTzrGSRhX2x4g8Om6t5Yy3LKQM98g1+PFvMzbXjcxSRncroSCpHOa+uPgV+3NeeHLS30H4gJJqdim2OHU4xmSvMr0223E3jpZnb+J9Ju/DerNujaOJj/AHTjr6+n+NMsdcZVCTZMZ5Htn0r6G0/UfC/xO01LvStRttWtHXI8mRd65HQ15z48+Cpj3Xfh/d5vVrWQjn3FePKLPaw+IW0jivNS4B2SbfZv5VSuUePBb7pPVTXPagNV0K8MV9Y3Nk4/56xtjj045qFNeZjtZs/XIrBxZ7VOqjofMK8hs/ypjXrqwB/h9awk1T94cNuz1yDzV600nVtalVbHTrm4LdGWJtv54qbM6faRW5Zm1o4+T5T0rNvNYeP7xZgPQ/0r0Lw/8IZVIufEk6W9uoz9ljfLN/vMP5CuG+Jmo+GdLuWsdGtlV0xvcMT7dT71LiyViqadtzn5/Eqj/luUP+0efpVSTxJGylSd3vXHapq0fOF79jXP3GoP85EhH0PAoimbqqnsdzc68WbAfAzWfNr3zE5z7nvXGNqT7RlyxphvXkGM5J4xXRGjLexMq8Y7nTya0vmFi+GX0qqNeHzbjz61y0k553PjI4//AFelMYXEcJkMMwjb7sjRttP44rqjhnY4Z42Kdmzpl1cbWw+R3AqJtU9OvZR3965Nr7C5EgB+tMlu5FC55NVHDvqZfWo9Dqo9U+bEh3bfSmjUCGyG6joK5mO8dlxjLd8077Sy5XfWqpWMfrB0n9oARjcCxzxmnjUF3Dpx6/zrnftWcHnp0NPS7Lcepx+VHs7B9Y0N4XgL/eJPXJpWuvMQfxH2FYq3QVdxyGzinyTkrgDn1zihR6Ee2djW+0Hbt6eooF6RweRj1xWTFJ2LkMe5P6U9Z1ZW+bB4/wD11SiR7R9zRF1lTheaPtBK5Y4wOKzGvNuORj1FBnO3g59arkZn7TzNVrptsfzbvrU6XRC7VwR1/OsaObDY6hv61OshhYscZxgf59aXLYjmNNbnzACpw3fik+0DO0gZ7tWcl0YlU7uvJFSCZW6HJNTyj5+xrLdFHCjBU9xU6yqgB3cZ6CsZJgqDJz74qRZCzZ25ajlGpI14boZZiWx+tTQ3G3BK/l71j/albYyngfeqeO6Dg84OO9Jx0Nec2VviIDgcj1pbS6cAk4yecnn8KxZLouQqrlMCnw3TJtz0XsKw5bgmdEupMxBb0wMelOuL5VhGTjvhTWLHcfKMHHHeobi+LJtZtvpxipcWVzG3aX2IyQQWPr/Kr8N8YlLHp/d/CuWs7jPzHaPr3q010zDJdcsef8KvlLuaeqXC3Vmynn5c4zXn+8w3ODxz0rrZpn8vaDx04rkL6b/Ts4wOnNXFakSkdLpl4I4x33HBP4Vo/wBoGJdwXI/zzXO6bJu6OpK/3a1Gl2bM9x2qnElSLkl8ZOenHH+P1qAXWzLhsH0PeqrSFpGyc7uBioVk/eZLDA45pcqC7Lsl5n7o5PrU9vfFlX0zyKzZsgDaeO5H+elNjm3cd+9CiUpnghkz1HPaiORmJ7EdaPLznDc++aQMFyMDPrX1B8qN2mPlRy1B+VVJyCPT+dKOgJHSmbi+ccEUALgyEg8D60+3UouBxz1qIybNuR/n1p8a7mYMxx6igRPgDgn8qbGRkLnd6CnMQo247cYqKORVYsDhjx/9egl7liSQ4AHAz39qRmXIIPNNDFtp69hTzhF+f73oP50FCPuyMDnvmmKeRnpUkjcAj5uM037qjI3UEyFJCye2MGnKcHCnjpzTbjjHGOO1PB27ewwKCkRlioK44pV+ZR3+tNb7xAO360qNyEbj0IoC/QUEqMdD2pzKrcZ2j3pvC570u4LGR1HYfyNBPURNq9MnHrS7SMseSe1Ism1R60rSFj16elA7IRgWA4wfShlGcDke1C4Ydct3pmd5Kj6HNBA9drc7eAM0vPZM/hTYQVySeO9DOXbK8dqAE43HcuM9hSR444pxb5gSef1prTEdgfegB648zJ61FK2Sc9+lMV2Zsnk07cWOcZPagpaqw2P5WGeeO9SrC23OdopMEkZ4FKx2rgnNBaIyBjb39aap28GpOO3JqPhuMZPvQAjfdP8AOo/L5+9wetOYbmPc+/SnPhu35UGbEA2j7vHanBc4Pf1oVs9PSlCsM5GKBDd2GHGR+NLkbTjr1pdg98ihuW6c460ALtwoP49KTd37+tCrgYpVTHQZoNRGznNJu24x0p/qWpNp24A5oJaInA3BgSM+tSAHZimlSeCuDT2baOuDUdSCIE+YQemKME9T+VPwq4AGaTaSuelWBHGpVSDyc96HUtjPA+tO9iMfWkZivTn3rPYQojGM1AyNuIznips7eQOvYUct7Zq9wIBJxgj8/wCdLuXPTNKydMjHb9KYyfMMjNKyJHN/CM8+1P8AMIK8d/6U1V3MMDJ96JBhRjk1QyUSbvZh+VOVgenf0/nVTeysVIp4Yoc9B7VDQ7lg7uu4kURqdvoTTI5wxxmnK/zA5yScVYyflV4XP0oVuM9KYzlcg/596aMt0PFRLuBYV3jxgkVbt75owdxyfesyN9vBOfrU24HkHmi+gJI3IdSWfarHFV7yJZvnQAYrNRvmHp7VLHIV6NzUmsVbVDN3boc1J93jH50u/djcMg9T60YVuM49qho6oz6MRSOcHn17UqttYEAGl8sBQFOabGOeOazasa3uHmHdwDTtwXBB/KneXuYEHApm0liMjrUjEEjeuRSmTCtkcH0/nRs3MecAcUpjVe5I9qAvci3dulDE8AGnMNqg9utCFd3IpmcnYb97gHmgZP1pxwcDt7Uwn5sd/wBa1UTnYjE8k8mmbctyafJjjvUbHb9OKszGyuVYelPVe3UGoZ34U+napI2Lx88GnYhLUeqjdgnK+/FOkkC+wprNtUHGah2szbs/hSLFaQvjFSRxnPHWljUZyTj61NuRucYHvTVgIWUc+9RhSFIPBp8zfNgdPUVEMtnB475ptisKrAgMOtSeZ0HamHCqMdKN46Yz7VRKZbhUBSM8mqjqVYjAqWNjwM9u9MkB8zJH0pjexGPcZNG3rwKGJGR29qTb37UEDtvy9KeMqgzTeseQOfQ08twOMYoAVcbvansVKjjJ96ThgAo+rUehPIoNFsJz/D0pNozwaRj83B60u3auR196BkT7RyDn6d6EHzDAx70/aNoBGSabjavPNBmTKzMSev1o28kk/Smxtx6e9PZs43c/SsjQOnOPzp7Y8sc81Hzt54pvBGTn0oGLtPQ0Mp246k0pcdQPxpgkAYkLVJiH7gqnJ/AU1Se3I7D+tJ1HrnrRDGZAecAelO6YiRRuxxz7fSpFXuTke9MVckc8+1PkVljyvSsmikKuAwHQ98elK021eufY855qNW3KM9c02QEODWbRRveFfGOteDr0XWiatdaXcDn9xIQp9iPrXvfg79uvxxoMawaxZWfiGFervmKQ475FfMqyiMls4pBMdv3s45rmnQjM0jUaPufTf+CgPh6+jC6z4bvLPj/lm6yqfzA4rctv2u/hLrUZW7tmtj1zcWKn+Vfn9DIdwJbGO1LLOTIQwDfUVxywp0063LqfoWP2ofhfbxg2V3DkD5VW3Cf0qhfftfaIsZGmRLMqj5Vc7a+BY5EXJKqQPYUpuB6BfYVg8M+hv7eL3PrXxV+0Nf8AiRCkLxWKNyzLKCa8u1DxVG8jeZepJI55Jcc8D9K8b+0HbgUn2mRVGDgZ4xQsLJ7m8cVCB6XP4hiYkMy49jWbN4kt2VlD/L3rhPtT5JJwT60Rtu425PfNbRwqRUsd0ieg6XfQ6tfQWv2iO28xsCSTpzXruhfCPTLgRzXuqTXiY5jt1CL+fp/jXzSkx2qOg/Xiu18FfE7UvCdwuZ5JrQ8NGTk8eldsaJyTxMpO7Z9Y+EfBnhjQ5Ee10e3M4wRJcZkJ/PvW18QIdG/s2Ca+tEkDOFWNRgcDPT/PWuB+HvxP0bxNDC0d0sVxna0T56ngdq6/xnpD+ItNiCTLCYW37mBIOQB2raMVexyybZyVxaeAbqHbeaDG+f4lQgj3zmuN8T/DvwXqFqzaLNcadcqcgMSyn2wT0rr7f4dy3WFfVLeIN/EsbMa0I/g35mPM8QwofeD/AOvXT7KLOf2jifO2reFLzR5Ds/0qDtNGv8x2rGZDk5496+pZPgfbyA/8VNCFHUGEf/FVSn/Zr0XU2RW1pRLjAMMW0n361zyopao1VabZ8zrvOcHPPap0kA+ToV5+lTeMtOi8K+KNR0uOZpktZNgZupx/9esF9WVckDd2rCUDo9o+5sq5YL/ex2pzSqMZbnuM1gSa0VPC49qY+qS4GVwM8VCiX7Rm811yAF4z1p7SneqkBVHcVzp1GXA2jB65py6pIuPMO/6Gnycuo/avqdEZVb2FOjO3vjHOawv7a+X7v5dadHrfGNpGfWkokOXU31myy7TzUrTeYyhhtOe9YceqouOcfXtU8eoQyOAZe1HIXGTNh7hQwOAw75pEuGZhyN3qPSs+O6iZmw4UYwMn9ad9rAlUj07d6ThpqXzM1I5s/KD93p/jViG4IZAOntz+FYyXAzkfKafHdfL6DpxUctilO5rLcLGzgDOOcClFxuIKnBrJ+0L5m5Wznjn2qSG5VHJLZLdj/Ok0HMzXjuCrDJwvUYp8dx5jYBxz/F1rHS6bdtUZWpIb1UbcfvHpms3DsaxmbqzlZCDhvUiqz3Akk5O45xgVTN0WyykL6k1BFceZMV/4ED3qFHU05zehYRqFWPn/AGiKDKuUD8N2wazluisYH3j60JPtwSNw/D/OKHErmTNUzMMqDhV/zmud1KQLcKCBlhyTWlJcMyZHB/u/h1rCupRJOFI57mmo2FzdDW08xqoZFwAf8/hWkZM5bO4+mayNPcIpAPbIq+reYhOcE9v61fKiXJomaZiq5Kg0bgzFh8xYdunHekdiI9pCk4/hqKNgu7ALnsaajYm7JGbjAHbuf0pkbMrZxkr1Apk8+9doO36/zpYc4GGUcdDQhtn/2Q==)

5(d). **[10 points]** Draw a simplified circuit diagram based on the simplified expression in 5(c).

F

B

C

A