# 1. dream of an idea -- like a USB oscilloscope!



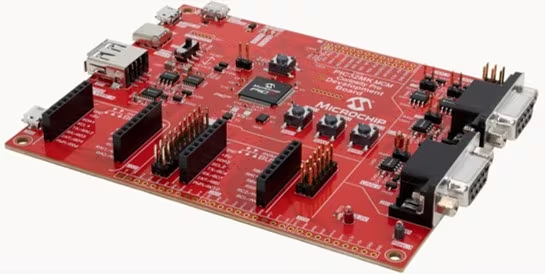
?



or



or



# 2. select a microcontroller (MCU)

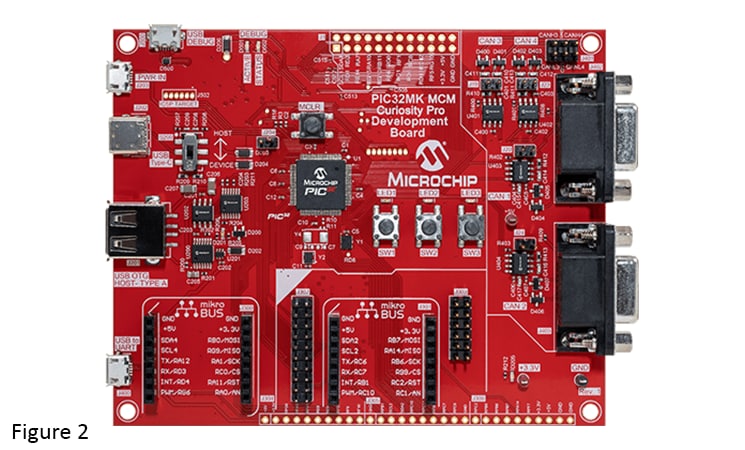
I needed the fastest possible analog to digital converters, as well as a USB interface!

A screen shot of a computer

Description automatically generated

# 3. use an MCU prototype board as first hardware

Using Microchip PIC32MK MCM CURIOSITY PRO DEVELOPMENT BOARD



# 4. design the firmware

Using Microchip MPLAB X software

A screenshot of a computer

Description automatically generated

# 5. design a custom printed circuit board schematic

Using DipTrace Schematic

A computer screen shot of a computer

Description automatically generated

# 6. design a custom printed circuit board layout

Using DipTrace PCB Layout

A computer screen shot of a computer

Description automatically generated

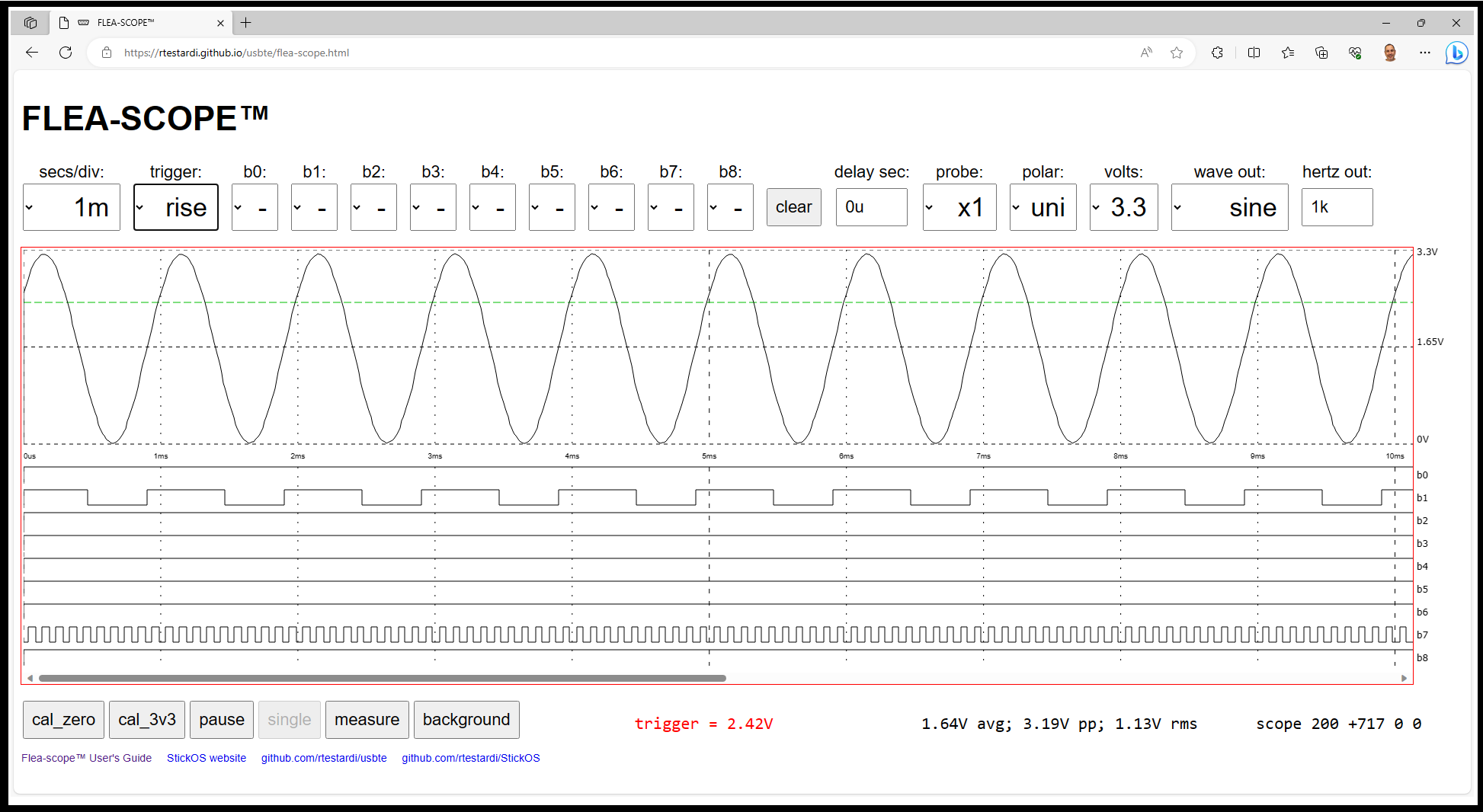
# 7. order and assemble the printed circuit board

In my toaster oven at home!

|  |  |  |
| --- | --- | --- |
|  |  |  |



# 8. design the webpage



# 9. always overdeliver

Colossians 3:23 NIV

*23 Whatever you do, work at it with all your heart, as working for the Lord, not for human masters,*

# simon game hints

See the Flea-Scope documentation and simon game instructions here: ***https://rtestardi.github.io/pages/***

A diagram of a circuit diagram

Description automatically generatedThe holes in the solderless breadboard are connected as below:

A diagram of a cathode and anode

Description automatically generated

The long lead of the LED is positive and is connected to the control signal; the short lead is negative and is connected to ground:

# A black digital multimeter with a dial Description automatically generatedusing a multimeter to measure voltage, current, resistance, or capacitance

“V=-” measure volts DC (like batteries)

* DC = direct current

“V~~” measure volts AC (like household wiring or transformers)

* AC = alternating current

“μA”, “mA”, “A” measure current (amps, can be DC or AC)

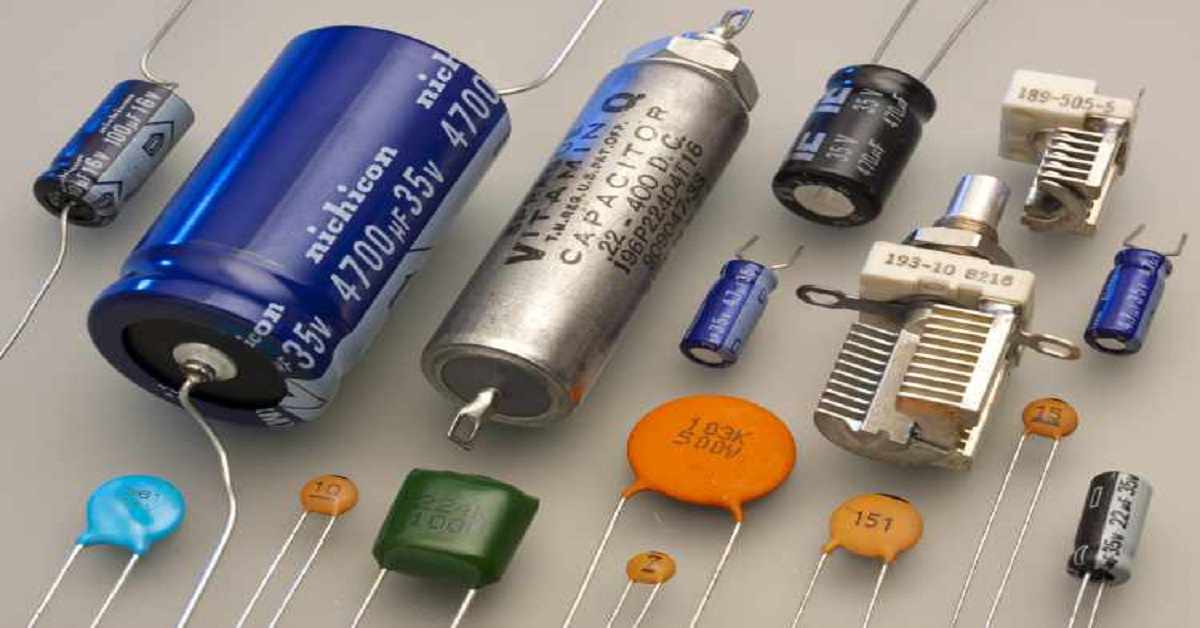
“Ω” measure resistance (ohms, like resistors or fuses)

* a good fuse (or a wire) has a resistance near 0 ohms
* a blown fuse (or an open circuit) has an infinite resistance (O.L.)

“-||-” measure capacitance (farads, like capacitors)

resistors capacitors fuses

Several resistors on a white background

Description automatically generated![A group of fuses with different sizes and colors

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFLQVNIIFNIQVJNQQAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzEyAACSkgACAAAAAzEyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDE5OjAyOjI0IDE4OjM2OjI3ADIwMTk6MDI6MjQgMTg6MzY6MjcAAABBAEsAQQBTAEgAIABTAEgAQQBSAE0AQQAAAP/hCx9odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDE5LTAyLTI0VDE4OjM2OjI3LjEyMDwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5BS0FTSCBTSEFSTUE8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8IAEQgB+gL0AwEiAAIRAQMRAf/EABsAAAEFAQEAAAAAAAAAAAAAAAEAAgMEBQYH/8QAGQEBAQEBAQEAAAAAAAAAAAAAAAECAwQF/9oADAMBAAIQAxAAAAHqQFvCCASEFpAiiNKIEQIteAECSQkUAoBLXBCQEgOIQSCBIgSQkkJEAKKhFQ0OQARSSIkEOc10JF1Rp7Ric1EUhApQUQNIQIgSSGlIKSEElBSsCSVya6Ak2wpISSAihIIkTVBCQi0hBQkkFEBaUIIgSQkkJIiSQnRulcgRBGwIoTg8aSVa2RsNRFiSQUSoThDQWiSVIkIA5KHs5/N6Z3KdBFqPNt1KCtRJFEXJWCREQc1A17RIIIIEi0IRAQghK1EIIQREOAQhIIKCHEKEkhIoSSEUhBIBSEkgoEQKEkhwSAnBQSBFJEQQuDpSU4YyRgxOACFTpGSQFICFskYCDSCSFNCw8f0nNc9M6DCvxy+3i7h2T2SdMtJwzoHcV0+bdFaxoxj22NDgjSiBFADkIFDCUoIKBFWtRCItIEQFJDUUPa5sFJBIAUgFIgRAEQIhwUQApCSQngqE8kYkjgOBpApE4c1nXRs4LtMV9ahjy9u/M0+mSCbM2vnw8t9KNDjjpLPA9lvNtOG4AUNZJGZXL9LyfLW3ow0jnOi5jql6p7D0wuH6LnMasdNmQZvKaeJt6ncywz7y1EUEQiKQUnKA8DA9gA4IQgJrm2ooo0lADmiRQUhBSA4IiSQkkJAhRIEQFFAD2AcEPLaUt7P4bRxrpud6nkM3pNfjuw6ZITbFzXQYObh9pxXVc9HA6Xl5d3b5ro+uZInQ6nMOrWeG+04zsOKua3Ycl1ulpBdcpJAjkZGFlb7ueqXPdjWTh+vq7tt0hbzy2chy3oY2zyusw9jyncrtSRv3klpopECXKR1r+U6XNmDm6jWubTUgiSKtTgIEUEghSQEUApQQUBzSJEBSQkCOLUPIIiUrWjPzb7uU6kfn3a1efw7ODy16ly2rGnO9nx2vb0zC3phmFu5svI7tSxz6a3P3wq6bG198jDLFpydqCfl12ed0oih12Ju75zELeSgBMdFGXYq2eWpYJq4zTz9HckBi1ObWjY5ayeO9GztTmO6wOltnex+8ooic2OKHJzN573Ib/ByavaeVdlp1rUumWpIKJGogaHCwBwEkgJIcEoLShEIcihJIDgQFERaFdzlfk+evSLPO9jlyNnS5WXsoHDtjm+d7Pnue10+bNlFc57Ms9MEMnXLatmFeFg2WY9q1HumDt8/v68xglr6nJVNxnP2Z1265X7eLs68czUd5CSFVs0JatqvZ5VVbFMs6FW50io3ssM8UvKx0bdGrWhBa6ZkcDoSELH1+Jzal6j0nLR8/18jcu9vzHaFkjm9zV0PPuu53XUU3TLWvbTWubTUQEJIEkORbCIcAhwUUBEiTiRktlDSwyeQ7rmcayvSvMekjo+d6LFxY97G2OuYuZ6bHOP0bmri0bt5ss97H2OmWQzw6czYpM59ugjZly3ej5vodcn0refuYurg3eXfUriGYu7GTrdeUiDtQBzRuXp5Oa6xDPysVO5UrUnZJ1y3Iv0sWw5MzYK0r60ZWS9Muc19BJDMfRyI525doZvKaF+aXb24H6lHkZLuNXN+DJyzNfhdTc9LFK10ykBYQiBICQQ8tdCBQCCF7XDnNeFNx86uYe8eW69nmOn64gxN+mcTcsnnrUfzldLW1j7Fa0FhnTPI34KPLWjVsTk+3ym1prQyM3nm6Wvn47lk96d4dnK0L5LuXp5e5mV7Lefqhk0I5m9qZ2n08xSOoWuBHja+Ni2po34sMMiNJ4PXOaa9rlp9exVKmlm7W5LI1+4inCZLTKlSWKK8NqSHXBYpvLddzxg9TzHb8dwedaOH0zY6vP6SXRkhl6ZKCscgBEICKHEGEmvGkELmokaK8vImTJ5b9Zrcp1kc1V2Oel6qAnvzz+G9Cw83E6fA18W8yPIzejs830fbOXy/ccjlD0fM6Ut2HO3Y3ow/rnEwukwc93azpsWvZqy3lr4e3ibZFqTVx3y5rFbPLU0aV7tzTgrCE0rZtytz1ZTo8q09e7ZchlobQW4Z+dbTs0iXUqX+mXua7Rz2vIs6zSGQSKIrzLg55FlXOuVJaGbtU44/W2VLa047Oo+Rr7ASqCQCgQIoJKgEuGEka2RkoiljMjJ6PC57x+w5fVjQZXxsb29jm9jpixVuRbxxh1szGtilVuxckox10nOdFn7nPWo9jlbkEzc6kv890HbFPA6Tjpq3q8pqPbrKjenl2cjW5vWLUWPLn271WhdefftQT9PO4tNJr2RmNa/nqxDLDFTXyNnUdlaOVVuWN2LXqWI61Z2S9MpyNj45aSwQuihB1gltMmoUrFIiimgivWlvgmUo2RxolKwoEAcAJASKJSHwC5wyNR5uXoXuX566OOtb65rUtCCXm83qOTxuW3Y0cbRlw2endm6fXnV5frcQpWcrQxW233A2KF/U5matjy9BgdLsRxXeUa9bPC91zGtM16fTY3hugy5nsOf0uf3Ld2j1k3yFswx08sMvXgSVQY/NipZytXlqWCzVINfL1NypEJc2RkkEVrNLX1J5GSbj3NdUNKWsMQMK9Ddp5dTIoXhIqk0crrJnAS6wJ6VAoCKsAc0QchqciR8ZlkjXO5Zfd+U3Ma9YqRz5vG6r6taUQf1xXyNqGXlrTM/nvdv5VnNZezJa3IFL158dct5uLuyYVXLQZT09LeTo80anaeWepS8TU182a6vldWjrNb0fzn0COXzd3IlvZ00RpdtxXapwtG1AddYhm7YKAocv0vHZ1ldXyXZZck7OsHV6WZjm/e5HTxdyrmy2TbeZp9JI9rtR8M1AjgkZDkLNTWWvIqb4AwPYRWYrkFz1TXFIg5DUQIFARFAloU1DwBCzb9WXBwOrzeeqXZ8L0JqxZMuNz6dahrO7Eyfpmly/YZsufLnHnvaZDPLNoVo9c7PE93kbnKddgLGu053veQjAEtC2Dq+ecd5xveefRPLTuWV+14Sc6XnRMV3akIet4xgUrtnRyxSdMkIEXD9nwudN7blOxjzK5T0I6rk+gxSbZyt04G3R2DtNGta6R8seSmhUjAJE0fchvU6tPRGsTUFd80slhkonB1IPQ3LZzeb28lGzDxI3caHCxoSAghJKGQzRxWoacMvO0+n5vO8zpci5nfQuypcyS47P1nahisdM89k9jzmNS6+Sc25YxBnp0Yjb148rX26mNdZp8J6jZw3O9Lh5ueOhtdM49+26x0gksrtsCITK4aJhVZWFK21HNZPJG/QtLShx3bZubl9JhwS81sSW4rRtZnW7W6rzu5zemwetXopYn9MQcBrVOe7mvnQJrXfK+43Oqssr6jIDGOjkrI+2LCohwSHgyrPIZq6RuVz03n83b1O/ko295cANRIgaihJCGskaRRTslr17sUc5X6Xnc6b0HOvzu/p4fQZtSzNnXOrTFvpnjlrUMb0Oh5rsUrcx3mfzuHlTncwteS9qUrz5NZaZXWMMpI3PJGpURGUkRkfUCmMRSp9Oc00GPYV61yGKjbLSCVxKtHVijOweuK8j3VTTJ6trkKyNSj0fHet5l3vnm8WuhydKau2+W6ONOWTO6YksQXafKHUC4ga+iDA1W5ZHGdFRzp3VQ7JJKlvJUFimpwQIqmgqGogY16lhZM0gr3Io5up1ODncFijJjfWKldmc+W1DVjm9mPWcDoqGZnXrWfhacmHXr6ekgnPTEUjnjXqSmF5I3SKGJ5qKRzhieoYpBTC8ARIxkjbIo52rXMiIRM0gZZEVnTOBM19O5zfrRynf85SxrEbXuhVTZxp/V4mjZicq12895u8z0tSEO1CTUFUeSPMsOiFXrBBO7CXR5lnSc9UOkPKJ1jQ7rlqKprSJEkhoJGNelijmbFeKyyObj6PFzrEs1bee2x02P1058vldxlZvMPFSyDWlubyJlJvLnJ9BznDSXCTlAJQE9StdHnc7qOyaHHXSUcKx59aNZkPl30Rjl+552h7NxrXhGNkFRCVESkRGXECRWOCeKKbLMcU8nfbHM6NiPGuv856LhaW/S61dG5DY3iSSnlGxXD6FQkE8lmIpTTqPlOlo5uvPlcTjWhh6exZp7VC3vMiatRBKEUgAhQi0AJSNk8csEVlkc43fzM6wu44+CX2Klzuzm4FWPQsc57+mWSiSk9ETg5E5uby1rLnqXl300GA/z60c97/F0hVyfjc11mqaehz1PeNzMrXl172Ls/e4AFenARbYEVQVC/rCEgzqMkASSxxTMIBKJYYrLIrQ3YjAxO4rS0+lr2yRg44dsRdJy2KHKrpjqrQu6jRFXoxFqDPe2XCrdRFLU1XTpJKyTRIqwEGCEFKQRAlQiEailiZMyIILkcuPmdHl5uD0EG1mmYS7yXF9jHOcAk0iBEXOdLz3ze1jRxB8npt50VLedK/k6eNbldsnJkYfQ4XeUwyT28bGnlX/Pt3R4G99GIhfR5EJahzdKn14czqajvZ8nP1MOvz9fUs5vY8/rtpy59omyNiNsjVYyVssMc4iGVzxSsFYsermY11nHHlclv0rS9ieF7HUe4wayabprI3TvliL3DHudQeDYUEFNUFBCRCokIEUAJCYVK2ORhEyd0V3TKVsokolxQqHM829Sbn+glaHx+nDMXZzvLupRvVvi9YYbEPp4raw9Hl06K7lPwk57ocJcLdxLvp57OfJHy1o6Obc7rwK+1wQI1IXUek9Hhu5F3JxG5u1kdvNiO0x15UtClna316z9H5/2GpLOg1yWNPQ1OUBj2Ferdil5in13P5tC/odNz3VZl8NvPoE3M9fqMnedQJ4RqcqTgRJASSESICIE4Ec0oaigIhWtkEMUiInOMMUiI3vklZnwZvg6WNHQZ8Prz1q/hd3VRUdD7/nirWo6wmW4vgd4JG2emMS6Jqm0c7RxY6mnj6mlFegyig3sjrGWa+lrU6S+553Qy4fXk6ruS+j5tHRqaGuTYbNvNzbWZvY3jYOxmddaM8cnj+oU4jRn3dZcHrO2tkbDI5WLE2VssFW9BEXPavJZtTds6o7arWdR7kdQIkanAAcAAoSKEkoKSAihEAKQCC1SWvgtchAmATlctWcUu+P3iTpfJu5cmY4069ptZHR5U3q1pRvH2eOXFbp/E7V9PGkYY5jKs7GTsctsqaDOkzWm36cxQ3I/Xzq7VHR7pXA9sto3pLl8Qq65TunZ28gZBnejw09/OOele5nbHL3ySNk4eo055t8eMvdTlev5brfH7fD6OqUvP6mNkbLG14WGGwyKtHVEtK3K8MjZKTgbC5oCEhBAcggoIKTYcgQpIQQCilQSROa+VEqE6rhebd/OI+L6JrrbfngxNirpMs3R6cp7mbAW4NGnz6G5ja32ObaGhX75yorFbzVCZezm7Wr3bprJmEUkmX25oMZrMu1hbLU5DVnmFeSLOuQUYbK6cqEehq74s4zreX6+fWuxzef6Dw7K1zvdFk6LhLzz7PXy4WZqv78M3ouZfj19I2Cz4/pxh7c2MPCxlxlDkREqikkKa4QCEUgJASCHJKAQVKSQIpSgkRBUua+DmwVPm9otS9a+L05cdbWrmr8DNS5JDR6ROZHWm+pouVe5bq3VO3mXfXbUczPrcqeH0WAjSxbwug5zdlvtlZNQ07QTOca2s3LOH0jVgtjNvLs88zNOpLY08JYnfLJHi6VK10zZaxL93Z7eLz7S36vTzlOdrjA+FuueXZ1ajHL9Bz+o+hsBrvB9NoeFYnoY5ERRAkApASSEkhAoaihIGEQRzUgFISQC5hgsMUuG6/l/F9Opv8pY8LZrlOcWXr0yhaqWe+lDrVIjmr1TYqQ630ucs9Sx9Lkm2IZqHC6DNMizn1rjRuY12XqgHNQY27EYE+vIVbodRztCFMrTdIFyVNilgLtunXmWSw2LZNCKaGVxgM6U+LN6vBsMhPbwxQ59XePQcGzzPn9ztFljh9CSSN+OjgkIJKHNI8FDCQEBBCIEEFJCSQAVBSSlqQiAhSQUFK1j2RDVux8dZT5oPid9SXJn54uz49iFAnW3mVbXSitaX0+dXQz9T3cobDZumLNWxBKIJ253nDRRVlnAnJWBOQ0lCBNND2wEVSRYCndrRStR2x9utesFefEknrKWgpDrNN9h/bxy0rnIdvHa06+jw+ipBJw9TinCCQQioSIEgFIAIIi0iCQiEFBARUAhBAIkCFECSQ1r2ysZM3Ngo6UPm1Vs1H/C76LM9/XnJnPu+uQ6cU/0cNbKekpPmpamxYo5/TErG3salKVIpBCcNBQiCIOaJwIgUoSSIIUmPAx6ERZerTitcfNTTIbIk+0kxnKZPN79XUdKpM7Dw4SCUkEQCHFpAQRNKAgglpCEApICSCQhAiCE4AcgJISIC0iUIgYyZmbTqacXl3VY9/nuiLT/AKnGhZdJqV3XaOaILDVy57TxsoNhSAigOdGRwBE5qUtSRxaFemkSBRJBUEUTSlY2RWRuchAobPUuM6uVFnopnPmw4OpFOGogKSGogRSEmuAi0DghFILSgIpAklKSEEYRBEEhAgckgApQkoSSGMmZEMdlqt2sC/c2ZZKtzaxc67LbIdaEQOQQUEFJBLSJICIQkQqKIgWjgQBEWEIDgiIJQWuFMDmGPZkUCwpBFyoEoBBEkhBEaghwKA4IQKGgoQchpQHJACKCkIKCEQQEEQKCkAoEQKGlIAJlaHogr3YyrT0npDaLlJBoFFAUgEISSCQRIISSECBPYlJabCkAFBUQkTmOgFCiEQNJI08yxvRohBCElBSEQkQIASBFpCkBwSEEhIIISEkUailIKhAgSKprkIckhNKAQBySAnMCCgoIKBGlERCHJJUEQoOQAIJQEQQEICSC5jqCRgOYVIKpBARSgteKCBEgkDklBa5AiBEECa4KQHBITXIaQQAoSRACAoISQECBxAHII//EADEQAAICAgEDAwMEAwACAgMAAAECAAMEERIQEyEFIjEUICMwMkBQJDNBQmAVNCVEgP/aAAgBAQABBQL/APlMnQtzrUlfqdm+8Rjj1Kja3V2f+tXNqq8xB7sm0jBf5wf2j4/T1/cD7D9w6n7zMo/jtPuq/dlt7W8nEGreuZeVsqzMiVXkoMqozYI/tdffvU79Yn1dUbNqWf8AyNJiOHXrdmCor6nEzeQOfUIuVU/6GTLG/L6dT3sj1wBZ/wCeF7sjozcVufu241ZsOY/ZouY8/T8i7uVPzr/s9Q/fnu/cTyfTseorlVKtgUcsE/h65Dbev5w//q5JBYKOWL4o+0zJPu/dZ6P4y/Wru5mVf7PTP3Dpn28MfwKsMe71S/kXPn09dCrwn9kWVAc9OVltktuY2YT+Ou5nf7B+/wBLPnPH5v8AywD7B0Ms/wBlcoXWDkD3Vj3U/wCr7TMlXNv0jzB/xLstHexAVPpi/h6eqWadm5DHs3kZdv5R7nw18r9//f6rJuNNeTk22P6dcK7/AFHyLFmJdxs6mZ3z4Fnptg7vqDatZ/f6c+7Ojn2FvNTe4e30+6yIwJq/1/aY/m0CEeGQGGgPZRUtKQzKbvZoHNx+OWttsf8A2YicUH3MeK5N2piZdsW0faf6TJHKu9ZS2mrP1Pplo8fBxbO5R0Mzx7PG8G0VWZt/fdqLScGtlv6Wfs7B5LSyw5V/09ldu69hq/2faZvbjoYg/KOhj4yd36XRuVjj21OhxK9ioePuy7dCzd12LT2xn39urH9YsqajKTIT+hZ1WXW2BUy7BYrclMfyLV1drg/ol2xmVdu5/n0233dDMlQ6K6CDJrEsy1UU390Y5He6GfUoHGUk+oTj9QjmvTWr9zH2rBDGMp/eOjnSgbgHhh4dA610Fbk+PtZuIyri12O3C2ywV4mVebLKk7lnp42389nCLf6qC2FX3a+AEy6Z6dfyWGZ66l/7sC5qb8uxsojESUAV29DLRtDSSqw1mxK6xWtXjJhj/tWnkmiGb9tNPA0+bh91x1UkWGNMce0dLz7R0aMZQIPuzru3XWDY9aMzepf4+HY0oXVWJX26hCdAZdfIef5nqXN3Hsb03K4vao3YgKtvHyEcWIZlVmyqugbXSxsitBZ6qJ9fc1tT86+jQjTvRzlNXbp/4p1cOlh9ifF1POJSFjeZj/7R92SfYnwIY8o8V9LTytA6NH+a10o+0/GcXNijY9PH5/Usv6jLqTuvip3Lk+J6jmaiK1j0bQLYCf5JmWuxdWWlFnFsG7v4rnzkrznp9/mNM2z6d7My55gUv3k9LqBGPWgxj7YYZYdZSjyv7DD4I6XnVOO+4BGEaY4/IPuyPLrBGjxPAjeAvkiH4YxRysAg+1j4ygrq2M1cPqIT09j5pHCrCo7dYmdlditVNj4tXFU41DMz7GvwPVRdN/yDLByVx27bU7V3p13bfKya4Ua2Ii1WQzOp7tNFVahOhlTcbehEzRrJ77hK3/F3LK7n+EO0mX4x6t8qbbLbciwotdvcTF8n7TLPNwn/AAz5sHS9tVqOhMaY48wfa5j+42eBZjoV/wDj9yihjkqNB3Fdbucm7GTcoqM9RzNBjs4lXnH32v4Outl4BvuyFai0XV6hEy69rZ71opbSAAM61jI9SUT07K+ooMcclr/Hclqmw5VhLX5NN1h4ipu5VDM5OV1ykGsve3ase1h4oO6Jm/8A1669V1F6o9j1jHXjVifH2mfLiGNK/N/S87sUdGjmUrqsfa3xaemvPHkypAgmtT1PIJamvZx6woy7BiY19vNqa+4+NVsr8fwmcIv1JyrUxDUcqjuV1Oca4HkpjrsPj9khwot9TCy1LMmU+mCVqKG+YZmr27cPQvyGUHKxzfjZHI04L7qhmYIxPGjK2VsWwvMXzRMw6qSzuLVewfmjwzF/1/a50qfIhjTHHv6fusE/401ydYOuujmHyXjDQqSIs10ykFrY1vbariK8/LN9oBdqKeIqTgo/hM/Fc3Me1sO7g1brkVb4zNq8YOVpo0tTmmSLDdj4I3WABG8ih9qZmV8qXUMtC0rZ9TTphRe2LzxsiGeoD8FVgRceqwxaRWzTCO656j+2t2UVV28ko4WGYv8Aq+286qWLGjTH+BLm41J0aMZQN2D7XMsM+As1yYCATUtaP8GlQLjfVW/k4dEpSCD+FaOSZFXOcTU2Bldl8g7qt4qv05NiHaGGZdfErYwIsCjnypU23vjWNW+9hxsMg7uVjJXVqn6TBw37riVtzrMzF3j0KdrGEeYfhpnDkaKuEUeWjfGN/p+3JPsUQRo8oH45kHyvRjGmONIOon/GafJb3M0rXwo6N4UzUPmW/FWCjrTSeQEH8My5dG5OSpaZhZ/bx9baxlUUXjlDLF5I6lLHJbHxXVqLG5eovQGtw7PaZmr27sm4CrAxO30aYzQzIG6VMfJKuLA8bzMU6yJleb+QUV5RL72DKfFX25H71gjSyINLG91wn/Gh8lBoDoII5jmE8VUaAHJgNzXRzzZvcWje0V19xyJxmoIP4RjjYtUo3AWWIeIN4lruxxq/w0v0MzaorqjNTVWy5NKL9b4oyhbaDtcxOdFSoxSfMaDJqS+WDad3jWvyf9VF3OVeMmZdvDOst7jV/tov4sfJrHs+207tXo0+bBHbiiwQxpUN2L9nwGM+T+5zEXQUQSxtBvA+ATqNslF7daroTX8B2CB735U3LYIYRLKw4sXtE3FyK7Fjr7KF1TsEo3NTHXkpTtWVlbZZUDV9WTTRiilKWjDYVe3ccuquV5j5Ed78hk9OvlJ3SY1G7q8MaGKnbXGVCFIu/wCX0C7K+iGxhrwfBM46i/H2GfLjo0r83zIPhRBDHMx18fY58MYx0ANKo5MBsiE8QT0YwypIBtpr9UdbbVpSil3ORQtitU9TUZAsBhhl1QsQIashDEaWMtYPOy1Ca5vYMzqvbU/CW3lFooVB8Q+CDyX1RSJVh2WzDw1oYVqseytZVm1hzO7X3K8vka6S2LbkOsa59UWcsNLWYVuxK1f4T5LrBkklDyX7MjJWhUyqpUyWQxpj/wCyWHlcvRjGla8U6/AY9B5JiLoKPEc8mJ2TD5muTa/hWWrUluabsnEzEyk46a+pbVvVkbFyO8hhhEyqOU58Yt6yuvuQKEltzI9NnR15CyvhZU6sUMMyM6qsen5vesyq+dIyK6kX1AtZfQl2C/y40KbO7jqh5VfOCvLEyq9PxHbxz/8AjalHax61LMijEvQAhfdX/r+zPblb/wB9BX8mVkWfUYuVc1mBabFsyK6ZWysQIY8QcrB1EsaExvPRRtlHmWNoHwIfdGMReKqv8Hcz+VsdWqbGvNdmJmrkIyuGyitrKO1EsWyGGETLp4lZQSK8d+5GscypCtVT8gZmVbWr/ZZnV1R7rMumn0xnnYpxQMhcmqteSKdH0m7v4eVXwvI2PTbPafGUvh/Sj+PN/wBg+Km/wk/144Ia48cS87Nfl0/b1Mym5ZX/AD0wdr0+79+J4npg1ieoWdzL+B6fZY91nqta2rk1XzHHkdBD4BM+IsMUaCjwfAJ3PksdljoVrsjyf4Jly7llS3K6GlqsooU9Ra7GGlHMWFwyWVXC0EQiOgdbajXZUdKqfk0lSjIRmO1IbmrDczQ9VlGE1kx6UqltRpNw2UP0+Q47WdavG30S7jf6rjwro0t2cq3xna9/pJ8+o8VuFlew47PeQJj318srJq+ktsUmkg2r8dXOhcfeg2f9XoNn7q/bi4/4fT099h+MXVGBY22xR78YfjHQSxtljNczE8lB5ljci3y3iftH7m1oAaH225qVujB1/SMaWVndq91VxyLUIRbMoGYyNWx8xlat6r1tBhEyKua8uIVooChayX14Ru20zKwVfJKpjXHu6XKxL6+LWrsOeVNy8qcO7tXZeZj/AEFlzWsKGtOZUe72dxK3WfSliuKYmOAn05E+mn0wgxBKsX3j7Lzqpjtcdff6mva9Lf5I1j5zdvDrHgDkfUvwYJ+cdJWNKOlvqKV3pctoJ1ANKfkDUUaDtpT4HwBHMrXiFH3ZeTxCq2RbTWa6qrVuX9EwwiW1bhDVtdkagbzg3bDMEnho9XF6MgXCETMpinRrTkvICpcpJyR5U0uTnX2/cPY3o2V5zsYktTMhODVPulMc7TFMXHWL4H2DoemooiwfZl/6XqsSYDouT61k1Nj/ALrCv+XnPzyhMHH72V61f3clRyfCTnkjpk3digMXfWndu3jVZVd0SVrPgE8jvZMJiLyOtn7crJ4DT5NtFCVV+oZ+ji5llGRXYLU/QMMIhEdAy2Y/bfspKUFbPcvGjH4sfMsrINV4s6MuxbX2rEaXW8VYclrpew8CiJkpbZn1cWsq5U4N/atRhkY+XlJVYVa0pi1hQoA1NTU1NTjNTXTU4zjAIB9hjx6azDRGxmM+k80Y5GQQ62iwE+mVBMbNs5XUDz6amqunqeRztpCgY1bW2+s5ANvI8sPKdYBoWNssYIT4/cdaAGh0HTIZlRud1uNjitM/P4lmLti42moXgm/0D1PR0DCyvssW8Y9eyr+10tqiN3K7EOqMgWEy+ruJ3DTZbYHOHVqJXLalKW47IwIyaKDwewGm6rIy+FePqBQs1OM1NTXTXTU101NTU1B9hjQiamoB0atY+ODPz1VW4tu1RhXjpwqmTcKaR73RZjouNg5J3biU8rPT07uVl+pMLqMwOf3E/BMrXQX7WOox8WVkXZvqZUO5dsajjMenQH6hEIhEdARfjmoo54Y9nsx+VsVQi6l+Ps0XmwGZuP3FoqCz6obwL0upOOqzIp5Id49uVT3ClBMChemprpqa6a6ampqa66mvuMImpqamoZroEUzsAlZueqXc7lGpiY/ds9Zygq/usbdNRt+lxa11MbH9oq/CLlsWteTfJ+wnUYxvMfVaX43dNWP22x8fQUQCMwRar0u/UM1GXYto7JapXiXpQEvsL6nzL6eUovLQiX/juNZRsHLFZVxfS25nKEGLy1qagEAmpqa6a6a+zXTXTX6GpqamoRNTjAIIOmRigt7q2wwlGBm5Het9PU/UF1e8K9hx05PVXPVPUOZS963wcrvVAaHU+Ixh8w+wNt2CaAxhzAgEvy0olttuTMLHdGU7/TPQiFdzIx+EBGsce6u7jNgjYMOMrPZkLTMioX1U6ur01VvpuX256jmJUoFlllScRNTXUfpa/X1NTU11MaMgMsRxVbj2KdinFX3DukU4aHn6laMSi2wu1FfM4VfkHfX4jNuE7n7I5LkLxipAs1qZfqASVobnpoVJ3KaBkesIc5HFi/pa6GETIxuBVvFp/LVfxmNRtq6+cy8TUTljm9eJuUZFNTWSqrwF0B11+lr7CQIcuoT6yfWO1n6GpqamvuaHoaw0vwyYo7Jx6wXqVManPyjfco5NjVcmrXiog6M2yZ4WMxYquoqQCa1L7NqmN/k42HxXNspwasm/uolL2Wen7rq3+oehEuo4G75xaQ8rdUPBe12pk4kZTSRU266ZqAdB+n4EssSpWzhG9R8NlWuSpMrobkEKxh4rPKv9HU1NTXUwwiamullAYYpGLkerepJerHZqr0uJR20EWXWrSlOf3m3NaDtsqNRUmodKGctD4llRMyPXEqqfKa+9K2tNVYEqXiN/p6mupEycSB+FQuY2em5oWEBlPiepBVmMnEamv0vAhyaVJz6hLc42QlmnkzjOM1MXiWFqLZk2AywMtuG3Kj9DX3nrqampqMgaZGJsdg1thUbIiy25aK77Xynw8WWVdil7OZAiLvozhYTvofi2zYuxGuFGIFiVs8rQKF/WPQiFY4CNbjkSu4qfT/UdTOvqqx1R3ZRodAJr7S3APnRr7Gj896aBZqcPKVBotHI218LeSrBnmpRaeTNH2VwW8/d8QZicgQf0dddQwzUbGDStOKgR7FqSy9szIxqOUTWPjepepvlN6bkPtF5TUayfE+YTxjvFqh28GOAwWAQfwD0dQw81y/HiOVamtmgEA/Rs8prylYsYV01oWqKiuwqF22OgNdTARl02V83/ALh+z4be1rPKnHfjkfdmWcMfnziY9qrXne5bFf7T9pEM1OM1NdPUq3tmDjqy10LWvq2f9TKau6+LX3XS+oMzl5uKu4zAQksQoScC01NTU1/BPTUZQwsDVSilSwGoIJr9Ayz22Ae1bBs2TusWW3d2MfcD728zIX8Ny7X/AIuzB848RPI8r9m5xFpr9NRwaXoP0waW19tqs6xImVXYP1dyzyKW+jyvU/WPqBUjXOq8y2VxSlG7i8uAXS2W7gBefEVP5XHcC6mvt1NACtls+3JGrQPYBp2E/wCr7Sh1ek7LatXUbzVMb0+7IR/T6VFPsv8AHepO6/ssbimMm28ItiG0WIRPxmNX59yqFy8cVZyuNhh9upr7DGjLsZOGGZ3VEHJ1oxi8x8QVzNzKMapcr6hAkHugGv5epqa+zUsuWqWc7lrJpKkOsPTJXaV+C4/J/wBP7jFbdVbeS7l+4TW37yvlSQeTdxxxyz80Hz9lr7vxq+IybOCVuWjOWFuJs5GG6rjUBnyWurg8nEGq+uvvMM1GTYyMdUfHwzZKqgoz/WFQPYXPpnOpgvL+TrpqampqamprpblBYlbMVpZFts1Ma41tD0tG69aOQOLDHutn0zBT4lHlA3tHuAYKx82LghlGG/YuGVamZSEA91WMD9jsEXE/Jbfn3VZXesyKyNRRPJa8tTVjJMmpXuyKxZkoNfr2pzXEyKsan1D1azKg5O1GIKxTXsj+g1AJk5POL8oqLVcGKJi0it1KzFv5L0IjD8dy8qu64pr4hstNXY6zjKCvbsC6yD+FMocDk2pZ9cWq4Na1I1XV/r6+oW6X06r8eRgVWFV3fNytV4ZV4vyaQFqzLDvHHIjrqXZJRkZXX79QiETIpFtf0lhtqpWmV1eVEH9BdkCmGx7GC6hOpShNB2Qfj5h5LZW/JTDLB+T5qpG53QEyGBatgp//AGF4KLbAYV5qyr2e7XO7Zol2K1nu1jivQy30xsmyv/Goe5rVroK1N8qfdbbuvvGkYub31yLORrXio63s3H3AVVXqlOStw+4ww9GpbklQSAQf0FmZoktYwEaV45tu9qKzLNBo6bGuYQwHkploieS/47RZuCsk9oxdTigHOoRnJjU6jqFAIJI2B/uXr/039qr6i6p++a719RSXXVOpOxedizA7wapMSqgcrRB0d+IprPB/TUuj/jXbCzHyw36GpqcZqa/n/AycoOAIB4qp5zI4NUNg128w+uTfG/x31muH2lH4kwwrq3J4B1uUQu7nt7FNKFwoHXtmyX8eX/ix4vF6o3AmhbGyTbwUaGoahPejV2hsrkurbWtsoThXBGYItAd7KqwotfiLlNrmhN3UnljZjIVYMvU/Zr+guvWkPe9xAhbUp4tHflOWpdXuBtEP7VeflvlFy21OvB39oT/WYy7FtShNCECb844VprzDK+RnLZJjGMPZU3KroaQxAIfKdrLR9grXVmINUU7uEHTufUZHfqxgMuso9rWOraGVzFqOLaLANo9tcovTIX+luyuMCNY4wTpjqIhdUPbYQb2w1HTiyvqcuDHVLItmRfaeVjDYqbadGHgdN+0N5T5hgbhbkLwu1547Le1MI7xpX5sP7Mm8YyjyddcdN2owaE7A9zTUzMiYNHBM7Ht72JjMtXAKANx/dBSnZOP3MjuLiFn/AMmi/uf0Yl+VyPHYpqSpUViHroZWYcLE8o+o7lKO1O6deVZT7a3VV+p9p4T8mVZSpXqwlg43zz0rbq/xkMHhZRGvQQsb5UoRILkqstyq6q1BsdR9lYH0yKN5TaAEEA2fpa1WsJwyLApT43qct9LXCCmrYzahbLU7N2ODsfzx1Yyxe3Zz9uHeBfY+zsz/AK43LEM5clXWnqDhKyVXgqI+4b66AEbJZVFakc+pEyxqychGOjXYNDz0aXVWM30haLh1iJWFghl1aWSukaUQdWPFaSVx1IAY8rBFBY+KYLzLtV123VXAewn4/wDGywVjHXuXaCLkW7Zfy2LB/RGWIHUDTj4rtJmzrcPwVjrqUe5+Oow5Ht6NloVqaPPc2xJlL6lihTDMmruVmwpO+ZxvtFOE3JfianGcJxmupE4/bZ5WrXG2w7UeIAKgCl8YfTsWNjcCGrtO1PMsw3Y+xj51guysgV1M5vdV0P6I9DLK+QG9v7hTd3VXUGXW19w7c0rEf49qk8Jvtzte5fn4is5i/II10YR6VeLSBBXAP1zLjxWnNUxdkgSlOVlpm/dk3tdB0ZA47llUW3vntKqmjFoR3Nr11hFg/prkg9s/1NcOWNUll1WPYtsJ8t+eVNxPLcChejEi0Lyh0Cp0Adxz+Xpqampr+A68oK/eB0Uaqd1CPlvcQsA68ecsw0oNl+sdrnsNFXADoP6crojwaHFVl3pnNmr+mXj4suANVLE6muliBlos5TjOPizKMx11/G1NdLP2Y73YrMXyWVZxmutadmpR3Fy6icTGx+MA/qTGGxqD3gO6sbDHLXymgIobrqESxDtL07NlptYLyij+S3wahyCwD7MdA9j1dyce3XkXc2AgH9W68oVsUnT1Y1ByD2BG5KFTcRNFhxPRhDT71r9wXX8rU10HVjoY+lAcay74ogH9XqGEQ1eVY1OvurdOSrqeWgQFCpQ9NQD+hI5uwEsyeIGyQP5u/wCDqahWY9vabU4iL8s61q+S2Q/6Ov5d99tTjK71arB/ZETGt5TW5dkLjrZY+Q6D+kMevlFr1NQf2OpqMDPqcgKFe10TUA/h7/hampr+0KzhAsA/9YH/AKqf5h6f8+0dP+f8H3/8/pv/xAAoEQACAgEDBAICAgMAAAAAAAAAAQIREAMgMRIhMEAEEyJBUWAjMlD/2gAIAQMBAT8B/plFf85baK99HYra9i2L3aw8IYh7H4FuRXp0VseEU2dEkrHhQkzokPc9j2JemkXlbdLUrszV1L7DxpatOmamt+kP0HivOh4eaHhRtdhQbGIcDpdWPevAsIvyVhrwPEG0OUo/oYiF/snPtVDytz9ZDwvBBqiWo5YjyfZXBKTlzufsrCjZJeBkVZ9UemiUXHsRVsho9u5qQcHuYvWrKFIqxiy80QdcH2SHb5Itrg+2f8k9SUudz9VZezka7bVlZW1DF7Ndryhb3i++LLL2IYhD8qQ14ExyK7ZTOToQ1svxWWWLYhlb1heFHJI5OBMbvHA36N7a8D8Se1iJP1LFh4e+h+FMTVDd5b8FMUGdB0LyXjjevJeESe1KzoFBHSlixyIuyXOxTT48fHpLfpknR1F3h8YiTzqy6Yn+WP5oXyWnUiOtCXgTOcNeoo2SjWIvuS4xHCP2cMmszf2avSfJkupQ/guFUyajRp/J1VyRdreni/TUDg/2GqEcoSI8n7OGPE+MakumNmnFtOZ3ruLT63RCEZa3bhGnDqlSypput3PpJNkY1hkWSV4gPsdyi0OaR9jOq1hxTJaS4NXQUVaZb4Ifiuo+PHt1PGpOuxqfbpNSNL5Cl2frRjYklmXYj3F/BNUJ0SmObLxLvhZY4kvjqRPQldCVKjU1FBGlKF9Uma2o9SV/ocWvyRpfJp1ITv04wOCznHJw8Saw8LD2LdP48tSdt9icUn3JdxSHFyVs+L13X69OEiQ2RdMY0UOVcF+jraXfqQyMWx1J9MTTgor00xOxoYnZwN5XmWGjU0L7oqUOyNDR6F6qZyNDdHVfrdCbv11IlLt6zEvaeK9Ov7h//8QALBEAAgIBAwQCAgEDBQAAAAAAAAECERADITEEEiBAMEEiMhMUUHEjUWBhcP/aAAgBAgEBPwH/AIW2dxa/t0hZZ3F++2WdzFhtlsi/B+EmL3LwsS4zHjwj4PCwxI+/Bs7l6bYnlkcPK48I+Uc2LwbEjh+i2NEXh4V+DZHFjZHLyh5WXlY7vnllMaLLZF7YZRHwjxl+EsLxoYhsS+RscmJ2M4KFSw1iOHiI8rjMsLDxH4KwvkZHbDGUIZycYZZEZeFmWEPK+Fi+OSzF+CGcYjwSKFyMrxeIkvVbFLLWUx4bIso2QpDLw2WX5IeF6Tw0ReawtsMo2RLMuMMYvBiGcI5wvUeE6w8pj8FitiijtKZWWIYyI838LYnfwNFYTrDWUx7YRRXwtFFDEfeJMiX5tnOF8DWU6OR4ex+yEivQSHn7O4T8WcCXxNFYTo5ExoivUoeEsLy4HIXwtFFHByJedktWEeWS6qESXW/7H9bOxO1fx9uOfNiWF8bIrxnqRh+x/WQ+ifWS+ievKfI5titn8F7sce06eXdprw7WvhSG6Ls49Kr8utVxs7HL7FpbEotFGns1jVjtZ0T/ABrOmrZKcJfiPRT4JaUl8EkcYUvU1uojpmh1C1VjqI90DT/asai+xRSW5KNbkntsO2qZ0Uvyz+kLNOLqz8iM2fwxkrHs/No5EvT1uqraJPUlORpan8ctiE1ONokrVEvxmSbRPeA/0F+UaI3Y2dGv9RiIR7nROS7qP8DnW5JtQ3L7Y3ntdX5VXpT1IwX5Gv1MpvY/yUSjZ0ut27HKOrhUrFTVm1UW5bEdKTNPo5Plkej00R0oxeyx3U9hS3ITbe52p7kqlsar37ViK+xTjNdqJ6LW69bV146aNXVlqsYhD2OHZ0mp3KjW0lqRo0ui2qTI9LpR+h6aT2O0jt4oTP5WjTmuRuyMe41LeyIQ7EKf0T0k1cSq9PX6uvxiT1ZTZZyKKq2ONHJPc6PSnF39FCzXx/ypRpEZNo3GhS3o1+zt9JnVaNPuKtFH/ZGpKiMq2YudjR6VftIrb0YS+ih8EI0u5k5dzv05xtGrpPTkLc7WL8XZCDm9jS0FEXGH6CI6lEfyNSfdt6utpqcaJpwkJ7UaPTOe7I6Sh+okIb+Z+Kk6r1mjU0Iz5NHpeyW/9woRf/gn/8QAPRAAAQMBBgMFBwMCBQUBAAAAAQACESEDEBIxQVEgImETMnGBkSMwQEJQobEEUmIzwWBygpLwFEOA0fGy/9oACAEBAAY/Av8AxUpC5mhC2cORVcuRwP8AhpyCCFn/AIchBCBKqKQqJo4IDoU4pClwXeCp9eq8LvX4m1HBGEmF/TK7hVSqP9wF4AponxQA/aFHWOCU4po0lQiQoxUQJ+uQHQFzEoywGmqyWSpwEXFG4D3BQCI2pc43xq5AnUqEGt0u6lD6nzGFhsucrmkeC7xWGeOEbnDgdcUbhx0MKhCx2gmmiLg0ozRE3tCaPlbQLCw56owgN/qktzXO5NJzTXNyIuE8YqjS5wvKcgq3eaHGeCCFhbedgmtXaNGTfRFTshxyVimpXNzBVp9KJ2unUXSgeHdAlr4lezsz5qYaiTeYR5lIK7MBqylAOahxn3BpqpaSE5o7xzjVcwKH8j7jCgAnOd8qH7uih/M1YmH6HyhAulSLy06qE6zJzThcWcFdFoF3kKFGkIgbcBWaFVANUOM8JvJ4MkDZjjlFAmpKj1RKj1QigH0CXGAsFh6pzi7mVVyrs3Zi/Eg7dB4BQLOSmq5uY9VlnwFTcyFhCHATqVBQWJ2aHGeEm+N+Gfcdcypzcckyyd3ok3dXoXSVBoqfGRNFVCTRYh3SiFjCDhrcYzXPVbKrl7Nk+KBmK5BB244ZbmutzD1vPhdLc0MVT7kcIv8ADhHHNoIaqGpXavPLZCU60PoqlUyF/ZWZ8U1uagVhQaHb4uUXDS7DmQj0RK7EnwvxRmomPBTaMlpzlS8ly5WAKNuAt4Aet7vBQc+A+HGBwi+feYSEXWZ8kbDDhe4yTdOr6Bdbob33ZKuZX8nfZYj3W/dYw6CsFrR2/wAVCqqIVgar2QxuK9pl+0IEC/wXKODx4QAKlQ7NAPNDcD0ueqZ7r+ClglSnHjPABf48JPuaKoqqIBwo24uOQTnn/gRKjU59F2TDQXYihPwsM5nbL9vRTrfIQ/cFznyUBS4wosxiXN3m3EJzVgB5gnsaA3Dli1TO3jCdliTXbi9qa9ui7sLnGVzPC4je7BhRGHvKuqPGT14wNuEe4lTsoVPBZXdkMhmg0eanQZKJ53Z3dPhZcuysTA3XVYgv4qRdCnOVJoosqndNcyTPVTamegXKIF4eFaT3pTa1KAHeCZYf9xwqgOl7Sps6qrVS4XDxRDc1htBMa3+fETwk3k8AHuYChTupvNKCpKhwodV20ezZkiSVAQj4QkqBRqBBQINUVK7J/leQsCm1r0UNEX4dRceiFpi7Jyx2tsHFT2jVyvGPQgprX1afm4CY0yUGgvPjcwblAxpTqiYjEsZPuDwnxuPDO3HClYjrwwFh9VksDHE2Y0uxFYvT4Qi6CsR1osdnUHZH/qD4ALGadFS/tAEHOyNI2UuWOyqdE5lpa4CPlARY/vM+4Ui51laVCx2YyNVha3FIxYQhanlAyuBucuYZcFoLmhVM8A4gOvCLmt97g9bvFTfiPlfCxPCj5R8NOi6hQEWBpc7rksVocTjqVJUg8pvIUHfJPGoTcOyZ2emaFpqF2bsxcLSF2ebnLHa57XltzvC6G+aBypc4dLh4KTkj+29vEBwi4n3kqTmeGLoXW7APiKrFGEbKigVcua7Cb8bVBmXKe0cydFiaCesLlsbQ+So0tc1SEUHxzCnAOcbXFdbgQsJzQuE5YV0RWF2Vw8OI8DR1uJ4fD3HQXzdCi/quqrn8FVbBdeCHLosLFMIUM6pq5TleQU79y9o0SFyiPBBlmPaFTm85lYTc8Fczqp4sBkJqo5ndFJhqbOdzq6qpK1WJrapp63EmVQFHNcrkOM8AuA34Z4Yu6nixel0qSsRU6fBSV2lqPBpUsz2WJqg0dwEFQbqqpopsKShPnfjbmpqa1KDWVc7JYo5rpGilBzdc1PdHVY2uOLdUEKrgsAnmOdz3NBdVcrPuu07QeAC7/wBlONyDzWic4uMrvu9V2kuxLRDE30QO/DzSqmFyPBvJu8OEceL04YF86aXYR8FicsXyhYSedVHmpbmpZmFXMcGJuYuiV7QyNFACqzl3UaHK6CnNOSyqN74HM7ojZuEbI9KqXGfBAAYQm2lk0Cl0pr9wrQXOGcorJP6TdVQ2gVEEOFreqKfa6NCe4PIk7qHWhIhPJ3Q7R0Tku8JPAOGLsI19xGmt0qufwWCYaoKBBWF+az81hs/9RXKqZ8EjJZXOJNdk5kYlBUai7G3MLEdlTmdsFyE9WhTamB0UihVoGSDCe05i4scnDqiE6zOlVaDrc4J2qcrcX+VzUOHwu/UWmuG60dsFO5RA+WlwaSSzVFpYYnNezd5Inhm7FqeCVJupdK6D4ORfQrswK/uuMHJY7OhXUZi8gqEFiaYRdOaiqxBSLsAyUvoEGMFSof8Aa7Fpr4L+LkUBNCu1A8bmnQ0Kd1uidE6SAjzK2joghLk0C0afNZhN4SrQ+SAR0xG5x3KaTo2ViOpxXWtrqaC7GdKcMXRprdN8BQFhGd8DjjRS0z73EzNRFVByVFgB80cV2OzoVHzDMX0zF3M7xCGyxOHhd0N2P9q9n6oOLj1QdmYzu6hDez/Ca8eaBUvePAFezb5rP0QfMUXfUtfa+QhSWPPi5d0DzRBNSvlK/pj1XcPqu477IHDHCV4uus7O5jd02zGbqKUBurOxG0m6ybuZ4DZ4Z6rE0zN0eqhRf1Km+SpPFhaumpQw+QUtPvcTO8vaa6rC24teSubW7GyhCjJwzF+NqnDVVkVXguaQuUrCUWoscoXZbrGMrjGSLMMyqnyCyjq5V5vgYGq7pPgmdrytnVNax4d4G6yZ1WEfIFCbsEQMhRAKdBeXIu8k1jD3ULe0nDi5RupY6uym+VXg6DiwtUN8yhOWnVFjDXdYm1nMIOHvYK5hLTrdRYX1WInwuxWdH7rCTzjO6CulwWIea5fVDEctVgFChaNQtR5oFT+5FjOY7L2n+1VbXxUAR8JlHhRUtHedV8jvKF/T9HIWhDqbp1o4TJm51qTCdWaou2Cxb3izbopPyfcpoGbiuys+7Z0VM0yytjiddhC8LvxdA4vZ1KwNzXT/APSwjNdVzZ/j38OW7d1yrHaKAu0xysSmz5XbrATzi6FhtAhhXP6Ll0RHzrHkV11TrF+qICwi1LG9F/yVT4vbwWQKLLO2exp+U5Kc/BBsVJTRcXovKA9U/wDUPziiJlYnZNqnWx0WCwPdz6rC7vqTkut0lYuKq7Szz/KwiJ6aXfzP2U/AQVIq24hzqotLpaFAyuxtMOGyi0GF35uxNzCkqLP1XZTB0Vc91i9VOmqbaWX2Uuz3Kp9AyWf2vFm3RQg31XYWeTUJUauQsWf1HivRYj5IDV2Z2CdaEhjG5TqpYZujQe4/mfsuVVq/QKT/APb5cuQ++gqR3VOSwsElCTnpfLcwsNtR9xB7qkihQ0CxNXjncQctPoxdkd1Fo2m6NvIyzTjK7T9lUbV3dZ9yjaO/1OWI+QUSBudl2VlRjaLEwwhTC/3EnvX43Z37u2WImmyD8uijUe/lvdUOaiTpRQSqFUKDjmFDqrEyqNk/PREFc1Qh2fPaO+VTaHE77BVqfpBY17mtOgNFlRQ08xzQbp+Sh+nnlFT4oYRMrsgec5qqk5BB3HJ8r5N+Cxq7dDNyBMH8BYrVwhNfZthmRQc3I+/xN7u1xuD9FUwN1HoV/HZC2ssl2o7wUWcjqqeZ3VPgqkKhnwXJZpoIpPwuykx5Kvkuaqd+ocIHyhOcTM3QMgovrfJ8r5N5aNV2ZosIW79AUS4zaO7rf7rCF2ZMx8BiZlspCkprSV7IS1c6/ujPdOYXLLrPRc3p7+phST6Llb6rlapLlSqqFzaooHp8N/ZA2gLrPXcINsjy3R8zvtwYnFYXUul18m6qoqLEM26rD+nacWpcsVqcR6oxIB7zjmVhsh5/BYmeYUtEqTmodUFS3JEO7qDRXFkj7yphVePJUbKhgwqqqeA55aCVyMNN6JkFsE6aJzZyXh8RORXMFidficpNAqrtbR3KpzunS+TdJoo02Rc1Y7RftaoHwZpErE26Hmi7SZnutHzLHaVd+PdSVyBd+JUySqjO+KIjmd4LlAb4rC8z4IzJRs7BsTrmpJXgc1i2Tm+fuIfyzkpFfgKGOigXFz6ALZqyj+yNtaQG6A6o15NAsL6s32U6XQ3hl6gUat9vhYKh1RoViYoCx2pl3492bg0mJUveB5oNsmuc6aUQdhgHJETMKYyKjK5pukZ3QvEJvGYzKGM5ZIPYf9KLbTRcp+BEGg0Uiq7W17jfuuV2GzaqZaqG0s2/ddniGIaLoqLpuqKAuq5vT4iCq93dSIcd/ekKVMAIYTBXMSR4pvdFI5RCc3zUqiJ2VFFwhFuxTtwgeJ5dXQBZeac3FLGiimIndQwmeih9UPlnf4DGZwHvALBY0Yojz2XY2NGDvOXY/pf926GGr/whiWJ1B+VSg2XRQ1San4qqpxy4wjhOXDO6KreCh1QDcypkeaLSKohBC05WsORlBrLfHak0AyRC8QvDhpmaBU8AvBGtSZQlphVmRujMYtiiJmdFLTibsvachUtM+9qpyXY2X+orC2jAoZRurigAK7bqhD7YaaBB4MypcqZKn0KueyBJWJvmFI4AdlG9xva7ZOn9hIROL7pxMSzLwKcEQgdFZkmjVT9yB2KcOENHy3Rui7JGdVhaVymkIucJDaNlFjwPJQ7LqtprHvoOSxaaoYhTRoVIAbm/QI2X6Om791VS7unRV+hltnVy3dui7bRUCwu7p4CmOQOxRfZWRLVitYadG63Obsm+BCLvNS4SBmEE7GIc2p8E7lJw6BYG2DLPo5wlCIxRWN1PRYjrwFxyCLyMvyniycQGmEMdC6ngoVbgXVByXgmly6k/Aub+qfQZNirlhHJZ6NChtVitM1LqDb6FVYLOg3uBbGWaryt+5Vpidnl0ULA7PgI2U9FZ4HlodRwCZA/zJ0ZSm4e8dE6fkNUJPoqA13QbhIIdn/zyVnaOpLMLwgW+io0SiXAmc1hOiHTgbZj5s0Nl2loTOQRPytoFKEKSmtHdZVZyVTwRf6cMtbNmDBPVS33ZWH7qGiXKXVP0KM3KSTd1Ti45ZQjPoo0KIchCrneeqjZRaZNdoiLGwJMRidyob6prqUMq1aHezefVZIBjYUIGaqA2fErlbA8EMbqT4o87qKBwYi9oQs4jxTnWY/p0802MggvBYGkDeUHfO5PdhAe1YR4BAcBbZd6M9lhfK7VmQ03Wx293yEBU9foUWXqsT7wyRXVdjZaVndUzXNQqgqFTNSM1S6U4BTdSpRkhvmm7rncuWzLkYY1qxOJd0VKXg5SODdNDADanMFDtmy050yTz+lhrCagjNe2YWdRUIOYZHRcplYN01+ODGRWEEY4knqsX7eClXHIKDX93VTaZ9E9pyZl1RdNUG2me/wBLlxgLBZ5KqrQKTy2e6wWYgflQc1BVEIoVMAD+WqxEZ5rGFOhvBGua5lysrvC2VSnTXzVBfhbmUWisFbL7pp2dwCW4pWJr5hOmjAoulvKeikjF1auYYsVPBZ5Zyi46mUBfidkFjIqcugugZlAZMVMlLTRYX1apbUfSK57LmMdL8T/RbdFErEpC6FO5cWFY3vkDquztKub91AMtOSpkmzteSBXe4G48wDupRG177NpIxNouqIvadxfiJP8AlRLSmtcZwfnhDHRTMFHC6JVZhu/BhFWt+6m01+6nEK5dVRQ4Sg9mIQnOc3mGiEZypsm4gM1LDXb6NhsqlblA+vRQjykjdRpdTNQ4gHaVIXQrEF2zB7N2mya/9OOxsm6nNywuKh3eC6jgjZG8VzaDe12xTh1VbxcPVDdYbMA2hyUnM1PBJybVOe2a5LaEXb39lZ5nMrqddliwO8VzEj+yoqqNFyeaDNB3nLBUdTqja2fLKhwIdn4/RMDMkNFLqO16om0lrP27rDhgbBYGABij0UHNYmGHExKnVYbQ0VclEqC2ZzC9m2FitXBqiwoBqVzGuvA4b1UKt1lPhwNdrCzVChZsOaDRkLvaODZGqx4g46I2j8zw0PfWEd1YB81+salAW47TCTBFCF7PJRFB97qrDc1rO+5fnqg30TmjmA1WN+f0Tobh21R8vRUrwdRf1WHP+ywumVsQpdV8Uasf6g02QA9EX/MO8P78DHeSlVuLdRXgo/10XO8+S7s+KoL/AGjMX5QFYBnm4SUxv3UqdLgBmhNWgV/9qsCcqI2rHGzrzN3QNkTGRB0UZqVO6Jcsdoed32C6InJYvlGX0WCsLkWrs3d4ZG6Fmv7LE3JCNVRbrk1QFnRym0MvXK1Sg5SO67LpfGRWG0ELlXdjxU2j/T4CBqqrANb6mHn7KHHzCc7ADTXJFx1MrFZnC7dVnHtuqLpkn2x7raBCahxyKAb6LAO7qVT6N1XgsTM1zZhG0d3Ag0siz3RyIQGU7rny6IKFGb9ljd3vwsJ8kYURyruotcOVQc7+YSqCPgp2UCZJmFJzN3QL8rEPRdmDLW5ne+qEnLJ3/tdn3JRY9ssK5P6m5+ULC3PLwUD6RiCk5FYgh2bjIMgKQ0BpzOyNi60yyug5tyWByiz/AN17RoUIyi6SM1ko2Hw+I1O99MzWQptKKLEYLPInfhwplo2ZA3TnvBJbqqmSVJ7x+lfxKwOyWC07pyOymztcDD3o1XZNGFv5uw2Ixu3WK14IK7N/eH3W9xb+lg/uecmokkunU6/ElObjFpYxIcdFNrMbcXaO7xyUEYoVqwZwsT8/pkHNQc1hmoyKxPJ6kqGcrNeqnZQVSu/AHN7wyXaWhgLEeSzPy/M9CQGgZNGQ+Lnirk1SsMrs25DM7/TpkFYtQsdq7LRSBkoi6VI7rvtwYhQqTUnMn6DKJOqBWBneOu31CdNkHj0U1MqAY6qq2WF1QsJ/+/RQ0ealBrauUuqT9Swu7p+y6X4nGAm4eWzGW7vouOzEgd5cv30+q9m/MZXVz2UuyHy6BV+i1VPqtKFRQrFaZ/8AjH//xAApEAEAAgICAgIBAwUBAQAAAAABABEhMRBBUWEgcYGRobEwwdHw8eFA/9oACAEBAAE/Ifmw/oOpX9D6hw7g8vweLl/N5uLDfJOocVK+dcvNf0Xg57+FzfxZ1xshHg4fgfG4fEl8MPj3H+k/CvgTuHNcJ8K+D8z4dQ+Bwy5X9QjDgly+Gdf0K4PhU75OKlROCd/AlSuL5OTglSpUSPxqVKlSo/0dQ+B/TZc741Bxz1DhgxnXDL+FcM74v4BUSEqBw89xJUqBCJ8CVj4XL4JnBvgqLBU9TCiu7i6CQzae5fJAlSpUd/C4S8cvxI/B3xU6/opxfBxcflU64qHNcVOvkEJUSJGHJuEqJKzGPD6n3z+ITMJcHbFMzN1Bi2jc1/XJqHFRjE+CvhXDqa5r4d8DwcP/AMF/BJ1wSpXxr4iV/QHCsRIPjfClfsYST5hXML8RwXGwlbNI7PiENcW7A8QXndJC9Rq4zo/MzSE9cP8ATqUS+a5X/wCO4cBz1yQuVxWOFTPPfHkY/wB/Y9NodllmhYOWzmomC9sQWAWdPhnTX5mmvzNljKnceGOI8/lBXnsfeYz9C7+kRrmAK3l/wS7y20gfhhBgItBcz/gtIG+sgVAzgJaBMwVDodxCVMeLPhWISuGVEzx3wxjDh3Kr4vwvk+FYlcHNX8CErmUNsETHxWqjoIWtH5j76kuLipTAuAseXAZjPv5momKn6zExn1HaVBcK15+b9CRtvuOg8O/qVlo0lqJiswWg13FxdB6JQZ7vRAUmuiujuGqsEti1UgK3rmuKnXNSpUcR4756jn4vPfxrPzJUqVxXDwc3kydsbSfTqCH8EToB4WJktZZK5ZFlmOMXdsnvW4FV8z844XiOhiuRyQAJdisdSYH3MY3w8MyjqgJ4gW9+IWxm01kDKy6dypHbAjqUN1moquB/DdwLZViniAimvcKRtVDcNXRNJeJfNSpZheYSpUqJ8qlcP9W+SHHcr5nFdLTRMlEmXq+Jdc9qZfcU3Rg2X1wsU0MWxcEJtuFYX6QwIT2qXCXKk9RFk2xGwiuTitXLG3bAEft/h3yf0IUGDNQjiLudIITTE3vJX6S9dLn6lX2Jfyl28sF+rcyjxNPgcC2oIwShsS2Ds1MEzPUwmI8PzXL56/ouIcXyZ4JUOGJwEUl2eI6AbZlNTKP2Z+il4HU8tGGMZlN6PT+glC8tghA6+3UwEfmV5VWag4ncNhukx1txsHiMxuqW2WiEfcKjMwV9Pwdcsh7i7jxuPrMEJkMwXBgALIJifSUmAKfiD+CV3hOuDcN8AF/bK1fjxDZWYn33KwULOWoHlFvwI/Cv6Bj49f0a4uDwcOUueg3H2OKxRe4Aak4C0nWDGZK2MLE3SUxpbIA8D3NvfJLjwUvRMLcFDB+o8DWSy6obsIGMe4hVzb1G1/bEGYMuIqdTQJXxqbwcOsXAbTxy9OErX3K4KLJGsBsgoEOO+bldShXUYV7HmZsum6TpRGLoZXgiIgXz3xUeGBE5f6ISueuKhiXEhg7Z+4jNSnfbMz9U3PbJLF/DGGWgw4ujHF68EFxBlhcA3b2JjgNINxa4UDyRid3qYMBM136gj8rPzIweGCYLGyxl0TZNU3Ot6YPE0Hv4K4dTEIIO5pNZ9gYIyseaHBCaswpqWj5ww475vS8xR3TF+0JjMAh/aPNr/wDhJdgAXM0+6vxPcGaQ1SgjrvosQBVwOajxcuXy8XyQPj1NcdTUTC6mCJrjVpYYIaWKjDWIg6bzMxAOAAb6QJ3HnqVqKEXpWdG4ZRvZVLfqAwAvyRzGZksDwzUw8PMLJ9499MzJ4TSM/W0JFs1/3lyBT+kH0n8TFCXyysPLyHMyCIjMB1hNEGPc8Eq3qCEqajBVvEOpZwwAT9LqXpxKUhi6La8S+uO3Ep69ZBQCGpY2DY/iXQVcdmRhvbEOJ2t8MeH538axzUr4rhNIPaPi3KJJ0GKI7wYyowwxZW4c8MQT1mFVy4Vk+2I8o1on6Eo4czKPEFLvTGy3Ml9y6X1EG9CaRcS8+8q3eU1TJiWqZqNYVKjNRi9EQ4zDQwcT+FCKxeiJd9vBVwqslRxrxCVxVTzKGm47hOoHT8YmXr3L0H8RAJTKGf8An4PMMKv/AEuVGPH6eY24j15Rkz0MoPWeU0vheNT65sjxfJDioECVGVytF3PUHDLk0ckRX2EZmo9am8n6GF1AxHJcGIWSMCb89yg3DJcpTK06wmyPF6Uaz4lVXXEolMheMkLaewgxi/ChR2FP0l5Cg+J2oM+oGPTdJP0pCEuJy/EcziffQFzqXJ3hLgh6nmjxL0/UCDzwcaJSKxMdTbR9yhXdmArbbglSIKIQAYjZ0FsffB+0Jgevx4jWnueEKhabI+eV9x1ECzly/g83nnrk3wcKjguUK9CXBwNwQH2jwsdTEGcU8ReEqQEajHliTbeXBMNTs+uF6dkHj9x5cC0i45VZFprdIJh+jLDB6GJx9DSoUt60TegDEpVq7T9hPxBHUNm9IyGlMx9WzEVo/SOmqrqDL7hiXiVcrjSX76N5pwNXqBOp6hXKCGudUO3PLqEqKqS3ETEZeHSCEdwCvLCYOEIFrzN7MbenMBB4L9vmY1b14iM3G9DcpTo3KYQ+PfPfHXNQ4IYjRKJ9sr/GZv8Ale4CndYSewNwxex1BiG67hVHLllwQeWYO/aReg+WkDX7KQLXoQg0sgxEwodnmZf+zxAtA9fiv+Tpp0uZWDQ9BuenQnLNCnrZufymRQbm7hxH9NSbh2NSNhKYsn1aCDKEsdTG6hyg4JfHoA+BrEu8IqGSOov3MFEcQ4fcIKIMTqVCNTastBKm5mAdTBbenqWPjohDglYCn+wI7ZxVdkyMVY+WN03O4jANk/ywqe++Izvg1O/hXAxJfAw4DWgmXH8swIS06NxsoVeEgFOFmSMO0YMQUPxEjvxRBhT0SvgEMMELBQEsQW5xM9S5Xe9WwqYD7lzwXZS1V5PyiY4bHhzLiND2ZV5POe4yRu/MZBGdT1Eo9xzAoqHkxzvKuKlp8T2mB+2Eri+Ln+IcQcMSYt5hYlpPFEOIEWOK2XSCHBxUUcDCqCx3aeoMyaw7/YgHCo72Cq41TbNkdXdROSUFeXXqXtjEGCoXD4X8e+KlcXL4tMUbhpaooooMFxMFPUgboTzmUVxGztDJXEQM4vDHMz4CLSUG5fGMbdx2njCMDabgE9DLcdJFEllkG0ND1ClZVMjrfqZL5w7Z659ZZ4VQw4SNKAW/Ns3Il574Yp6ZdYmeqctxaNwKMam5HbLYwVfDgjLn3KMXMqJRMl/5DDiGOBzIeXgQm0WrTMrH9SYw0ZhdErs7/hMXtqBFmYqHcxkqzNHVe39pgg8RDo+TySsohhy8nNc1K+HUcwjb9pZsGOn2xbGW9ELrNpJcWqjsg1fU2XwvnTFuZ0tiHrG8JZgqALlXMhAUCsdy99kgzSUFYSmOAVaAmAzco8COIVZVf9nCgQ2KgmvEKI+iCEQN8cD4vGzwEZqwIjH32TBq4PwIfBjvxiazTgsSpeCMfijEMcQpo+YAh1BOuSvBOiWiiL5Zladdy8Hn+OAYnqBuL6TU8H5j+xonsM5ZdWnuAAAxCRjlXFTr5d8VKicPDCJc8RGT3CsWYKg1USL0dEyt+Jv+VZh7zUSC4uAz3KyWfF3LBJml3PZ2jKXcEiz5Hp8QC7CU3szCRi5OyLUukoGWob5lwGZlB8kbidqPuK8nPmYqB9RXXgb8xWvInA+GR/ePiaOiYJXUzxnr1N1/EoP05vhn0PEFE6jqP3EaT0CS/wC1wVNY9yi/KDECVAjsmVYw6P8ArHNz3l+pj8mCYxuLF27nZ+kq5/7NntBkezZuBCAzK475v41KlSpaP0TNZDolCuEg4qsS7H6MvvV9xzJ93GUkVb1GxJV1CtvPZBD7gRgAPkzFqfTmonLR9JlsxfXuIF3ZsX9xCUe57p4mpfQzMYq48pbivhqIr8wx2K6U/c1Yw8C8rFFxBG3q5d0faII4NdoDE8cebhgHIhs2/ZLgeCYDnqdT0m95YY6mUH0MzqfZUog5mau4QgSpXDo8TR+AmCn0puYj8vDISxVFXuAFtdTf9CXP6MzXTUq4RXBKlcsNSuDhUqd4+jzMf65gxKPNMzSppWcBDO5ruUl4SsoVFCHhLc07RdZ40lBTTDFeo3MqoMJDOH4EvMX27mVmNDcoIjsjbkMKRUwTuAdD+kAxD6gL++nq8KYOP3hGooAnthExxf8A0y5IOzyPmKnsZr6lqM8NQ5eyDX+sFTzD8SsrLAi2Av4Op5paqXaV+yUwz4HMGOItXWJeJaVoVBDUxRXKh6lQ1CLtl9scszlrX+cc2H2yuztgVPHE1GiYFa8xfUgVfUcD8kqgCVCViV8OpU7+BBqDELUEH9nENCB+82cn6GMAo9RWFbPUuA+V8/CK4UsZd/iMKVfcS5KE4ldRcXSPCbzKJAUMMS7iKx3Knc6Rk4NZ+BFCjVs1miW4JYgjqCwq/bFIBZTuXteJVnYz8lH3MjVSxVRuGg0w3DFTvNy59rlIeBgqVCxpZM4q7o7maPuN+WGvp5WLCW1/r+8vP1bF3sRpl0MjiHBs3OYWBioypWf1Iwewq45MCaSte4aOCCdSZvqWps29EwAHUzTol2X2yszD9zQ7dzRcVvB+qXNEK5uMF7JUqVOocEZqdx+NxqRpTyGaGe4xTDA35PmV0y3aDjbH/wAYFK1UNbFNniCDiwzk/pHToh52win2RPuqNBF19QauTUz73Qyu+xl9ccKJeigbIIfxytpT0lm9rKmhSnfBq/FzAKgo/vPXvAD3Np9Q8OoUGyAovbc1PUp8R/nE0VuEPctUSVRJeHQ9SuVLh6K/ywZIIrEJ7uO0+4cj/VmedzG1Y1+/9uaM+oPWW16PzK3vQG/0h2FfLDMt+uYiyy+/LUUFvUFlv8Jwrz8sr9mfhpadRqF2TBaeYFRM21Dm/wDTivjUqa4+pU0cXxcWI57fHmK+k/aU1/WFYAtBT/vuGkYqAq7SfahOmJgT9I5DMWMSdjUo3glP3w8zaHuwRXLtlP0wg1MrIljMkB6qK2erthBRh9swS1hnJpFMf5oJPtH7leNMV/pbl7pO0pm+4Nrk/UhLOMGVtnuUqinSP8uLDGhs6hTtSdfcBQt34mEJnuAvCGs4tr9aUEzo+Fi8Et/3M1/aX40Pcp/3L/SHLMP+pf7cZoVyJ7lF/abpa3mJdN7lfSwfbKRfAIJiLMmNGpezg5X9ovcGVoluXW4cBK+gRU7G/UxgmaIUNzMAQ4riqMywy/IgaoeElfO+XqT+cK5hwnZLT4dwyHBNbl34SoGEsfMqcy4Pl8MZBrBAcGeHii1vZHCktaaEV23JuYFA1qZQzj/ijkl5Gc7hTX2g9yZTP3Qgao+n/BGvOSoFFnUarslxlCglr9RFhIPDdhQEKF9S+36bf4i+V8t/KNk/yUNr77f7S012HUf/AGJEd/q/8T/yBLN/6PzBzNHev7zXHFzcssuX/b/WMhPCftUxBVGT8f8AsGdSot/3P/kvXp/GV+zX1PPigN8aXHYe2yt4EtSpsOot8EhhWUVrXPAVPT+ZhJ99FA3d+iYbbXbLOFsXY8nIqn3K2YH4ITH7mlPOZXEps8RI8MrO+KlxaizDfAr0D95jg9EYW57iZ3L6B1nUolAaQu6ZUM+F3L68ojwKWP2TMFnkrcq8TKo+/wBCWaC+yVcL+ZTnyant4hTz2Js+ozc40t1FNNt+oZmJSaSsksBia5fDbN5HsW/pAO/21+kBQGCOoz8SmCGoElfAF5l8XGq34ZlJYLuxLWuxSIzsuJmg8st2QP7Sr1U/lhpB1Gtbcy1PWIpvbLkGGj/f1hxwKewx9xPZV/UzLwwunuDc2KDHl8m4Mr61LG3qKWPUtXojAV/XU6pmXRCMqV1DioKJnth0F2dShHqcX8vqeqAiGEQvsnaTH50fEB8djLvwCLHSRupb8x/eaqNq0AFLMdgi6J0IkKosYlXbTM2IlHaymmwTRAgzmHllHfcX8jl/rfDqUY1ncEVwMkPDrp1LULdggJ0MgqlSQ8BwLMK8unErKjf4FkgcqURvMQ/m/wBkbqfhGyfshjbf7v5guGfWZyVxm+0+5flJVuj3P1kJU/1fcvltXDMuOjs3+466VkBudh99wo9FUO4Urp0SZDDVGvuVAZ44MKNQFLlFvxGaTuFPcwCCBK4Erot69RZdnmD2rP7v8S8cThTr0TB8plc5d4YT88L5ZUx8DBEiMLGJky68J95E7y9S1JTWJ0A+5UeRLqv0o2rbfcEB9HplxqdwjVxMgIm0uwMfsm6g1CVEWyuo1H0Hhga/hmGUucTPzdLMDNwu3tDMahc4Feap6Spn1NJXwpAhxUyIOJhjJBjlTN3Gx/Dpg7CFlhqoSdLMqCT0Q1Ec5DB5Y1zbf7wT05+03gkSt8c9zwHflGzU0hbGVI7RkaeXUPQf3iCvbK+pfxUc22/txUqBKfuGJyndPsIoKK0n7MTrlZdF9HrKJH1/mFqBKj8n6iRODBwowEep+YB4gEE1u/hHnBdwjoSiblErMuMZJjMCYy80Kwr5dSrwtwwID7TOWfNLrFNAip/QeSJmT3C+c+yw3DPmBCCKmXCuFcMOcMSuBRgca4YLmWMvFhBHCEU6PkxKhv8AoioCGEtnZv8AcNnhF6Jg1q6YOMsvR3BZ43n9pdyrD8JWCVf9sp9igFUzmqx8q6mQdErG9nwIRmS2JUt7/wACOrCKHLVGD3CPLec8ibPRLahSdyvjUYxiQRg2Apibd/tEslepaRDTstGGAmSJTMFl24BqBBDazueSAt1tEIM3EBsC3VQJ9tSq7Mdkql94YgXW9o2Zj8EFuFZ4VwSBA4EYqbQJUeEjEjGR8IeKiDguIKc7dIUtrp3CyitLY9H6xlbWwFNewuAJfXCy9Lv+xEAhzUKRzGeoSt6eDuZSn8wTPUrzK44qBmKtstVY1Qh7GjxFAH8R5m0LbIfEfUDVjOgR6WNe0DJ7IkrzxU65SVEzByEKSJ2t68RL2O46k9FwBTmeCn3DHGFlehjBe+66lsBbHzFgkmUcU0ZqWTYZ/MAaBwHJ7fE9IiQ2CyVyBmVBia4CVA8ypUDlWJWZWIiZ1L4SVHcQlROWNeBAeJrcWI7mox/DNkZsz+JmVvIidcisMWG6hbzvqIWaLAixDt3+xM0tGvU/6rRzSrkBLDbLFs/AlA7+nieUsIWz7H+ODzQlr1PUhsiVaX37YwCnD0kakB+r9HiVJop8+4tFhYx4ZuVKjrhlXGkSCGlRKN8vCFoxTNvMaw5GNe0MldzW6FmxTTDDpfb+8li7e6mDgOYtFjQ92VywVQqGEDhXAcBKlSpTDhUDECUQe5ujrQl9sh57gYYsocViPDElcGNsT7RhAjmOuAqP1Lysv1v8SzqB3b+JqOdPxC1KLmVdwqCpktsWohGN/uMMh+YOFgXCSV/UoO7pPM2ALYi/pHCAWwrQ0rG2dCbkbh0jnfl9wKqVZuD3UswbrzXl4+pthW0cQ3gNHhcuPqHFfBiQeIkvIzH7+ENnuIAX715m2pv0QEt0ZL3MTCx0+Ji1jrwgWb/IfUbt2h/eUl1+kOAHA1AxKlQhxVypUsMH2hc6P2g+/wC1TswwugPTFKL7spgK1cQwxbHsZX5DMpPsPCxlROKneJV6+IOp1Noc8LDKYiEAYEBHA/3Za2Ok74KsH+BAJrLqHgu+geYNZvh6jfBNOo6PMXFuUrfyy5/SJlFYh+tD9Jgd3zOhWs8IJEZ5Ay5RHG5+Z4ys/wDiTGzG/CFi35hFy/i/B4EiS2Z6sbCFkAMBLwW4Ldg36hFD6dyq9F9RNctOv74kBAxAhqEJUCVFOy+0qSF+021BVr2mQV/cUwajWZpKjEViC0Gbm5eMTJD5s6+GO16rLuVZvEZFrUPmUo7STUvglRJ3K4VzXFQ3qJE4OEYY3m+kgt+QafuHShFr4cQRgtePcsNTqJYgvr17h6irCZY+ZlqpXl/WbT6ECEUbjZuP5i36PEAWafux8ioEVXee4BafU8h+6wAIHqYQ+bw3x1GCJyQkkapLEvxBRqob3/lhitnKymXPt66PiDUQJXAQTcCBBXUQWz86THYfCWWY1GYL6G2XmSVJeyQ+2boKwGNWA6vEAtDcYcJ0wYaFIVLiXuR2PbMx9v6oNp5TDOyGVK5dzAVxKwLZLpIbaD1wkTHwYkeKXGBBUyiup5FkAuiNUZqDuA69ELJwdJpApCgEWFoHpPQ4xvwe4AM8Yts5f4mVnMNPb/ERfKz/AAUH6qS3Wg0euZHwpmjnrjviokTHAieYrHDG3eY/sS69fZBgN+PMzQfV9PUIMcIQIEqBmBKYwUPUwc6rpcNOuxyGIotqVH1bUsDpvbepa5o6gxlUGaEW4E2fIYgwfJCgTapVGc73FthqXow0CrwzZy8oQLhx47lifB9Cdn3t1AAO2af9/ia9YmJ98iZiSiJOyCN4QSUgwD23ygGrLB78s60l0/ugXLhVXateJsynZKAjjneI0pH2iiGIaY/XNjXZTG3++FIFuYsXrw1hBAVDPwXi+SVw3wwSo4RyFjAEsrX+U9hyNEqUQQQgIXeeKhqa4WJ+bRFpyTpCboKmdB121UH7R0qtzXBVQR+0rvekA2frMeEKo5ymb6Zhe7Us3tCaKLiLugI/ZZHUdlzv4qcJ1u63+8X3ToGKiWoF+4XSjp/xPzeBcT1zGYwLbQkpMcPDElRIwMyuDUYBWytJfdz1N8H07Y7ATtagLjtuLldhNYZ+kW32zX+UsfwprVwciuvMX6wNCKeIAx7ZRAqVAlQlfC483x1Lmzl9x4YkaKFkHEUQgIECVCHCBNorUzXDH9ZTdBLoFnVV6lgl3ncCstXF5wblp2CorpXoCJFXV0wfm4orqZD+0zzrH6Rc5URQbBNv0lHBivTze599NeyVs1g+5UH05+uET/OWYy1H4J9EE1lwHqB4BtGn9orqgmLazqGv9g/vCigYUbhIm6jdfiHa/uEKgDyPHfBXiPJUquekCuMqXXZ3DVoeDLDRDc8fnz9RH+QX++Jdqv8AP7eCVlKML/B/Esi/gn+MhcMPKCKEDipUrED43L5qVxUeWdRlSs/ABAgT0hfdaEdQx6NE8RvzQC9jKmEZ7gRi+CUL6/WV/kmC+5kJ5xPK20IRA3PvEtCsUzhXiOkRbZfF+MQa3dzUNMMhTKqKrHEdVMxZ/sY68Mn6Xeamon/Sn/z+Zs4AbPT1FlXKoRMQUnmUWxu4RzCiajoMe/1/tytVfnio+pG4vmqOg64qVwrHNYjwIYwDCKiGifqJE8WVa+3H7Plll4e7MpVWrAwIny18TWpUqJOpUOOuKuVxU1wSoxm+KicKmUYPgBFQ8HVfRCard+EVGe1NHmWnsagN/C+GOSDMTEp/qGYZWn1LE1A4jd1/t/iLKWastf4menpn2VK/Le/SF3Fr+qU643kHH+/cXlKVdbmZDAPl/wAYalaE2v8AtQJ74DPxM6p3rKTRYu0pvrEJ3xrJbgbEtdeVqJ0cTY5z+8GXXPEUa+Nzv03Mn3Fvu0EzdTQdG32yrQza+AzLG4yi4Arohrl46hKlRlcJGCg5uUj3xKj7ia9PqQCBTC1b4+IpF4u0eIEriuK+bvmoah8F4ZVyokq5UrgtMVqgjrWuQ7l64vyRL6NvcgLC6qv/AIQ4sfziKqbB2TIOGvcSJLDM9pcwTu0adRYVbF+p7t/2oC+xX1Auzrf3TNOGMd2/8mQCaoQL1mNsxHIX8KSmGu2TcpNfrmNui49plELb/wCTUhre9R03Yyv6D4X6zl9Jmkwy/czJKVIX9+a/tCHf3T3Gnagiasy9Q+HjMR5N6VAGxplq63R+v/f4ln/XCEDgH3MkCnsiSonjhiSoxQSiGCZliTECF7lY/tpKIYYP6Ob474J3N81fF8LLhKlTqVPqbmIlvXiYij7r8cTFRw1GbNxGhf8AeDyTaiTLel8PmHujcAFx6ZRaduAlIeMNjtUMZky0zXcXI6D1Pe/8Ss9Su5cCThZ/vM37KxjCM5ejqKhkP1/37l4Dc1l2xuU1ZD7v0IH6pdP7yzu2QMVELDVDKlF+2HGmYwSVRm6fD4m8kYtY/WPaTBixW39P5hg6wfmC6HXVVNnAQlDQyVRq4UGnx7gOFT8roiX651b9wCeiGoFwxH+enoINL8i5+ss5H1Ksfa+CRPgCJ5jrgO72Tzhd+XGYS4Nw+bvg51xr4fXFXCHAY4qYC2f6rY5S1mij8xPX69QpFS7OoAgxkptKpnhm+2UMkCwq7jDafvHiVt0dx8aWyATwYit1uM0x1EravEbED7YjoJmiZ/oLHdTKmpgCEz4/n/EtZf3r+38QO2v7fpC0I347mNKnQYJUGghCAUYiGhpVNIF8XjRhmvMvQF7Q9tS82LJH8PuK66AqN/U0p0BAbvpAWvTBKnszXiMKMSf68QT0fgv9plmsD7h4EogaHmlzutrtTMCfsRt8UpahBcjdnUwpP3OGMSV5iRI8JBnCQ4r4bjgjDjf9DU3zeOCErgjVEDuUetbYe/4TYg2CppW2AVMhWihqeZTZNTpHb4Xh7g3PxV7ZdRcoW+v3LD+WHlf2uBhBaFUAZlRnMAE6ez+ZSGh/vRMhdfBiVxaIlqa8H1GJNWvAEF8pCqDijTMJV+RLo20fpBianUuVbOi7r6/3cBnPW8kxaIAKq3/srfDuaR7k8sJ7kan9JUVIySkd/wC+53jjfYS8XqfwfpRLY339wOC1K2TCcGErgE/50S8FO/cyApXVyyA9OpkX5vEsxB+BJUqEBA4Pk+vg8PHfF4lx+YSoSzu+omuDwlZiHfutQ1oNZIp4o6pqFWBzKaetytxU6gNgv9iVtFUoVuZfUpgMqB1L6wSqO2/xGsZLUv5lIJdjZ9TABZtlhRVwVL9koejNWDqiyYdxZzNTKXUVsHs/1iv3Fz/2ZY5Kv1OyVPVIzrEfBBJAELWu+lKDxBr1212vPsP5g46lW1W9S3VNRhfP6w5XhpbIo0tW07hqCCBMLKsV28xHQBeMwEOBdG4pW7tmFVuoVgdPFynDt6PslqIKlRe4jEyBPtIdiMSVF4qdw4qVOuLnXF8Xxcplnxq4/CuCEqF+YvRLEq83b4wiynNYuNIBlGiNZ21My+4Kiz0CfY5pv9NzFDXcuf7EKRCf2mMme0X9oovBCv2MuaS+PMsfcEry+hjEuXojbUWqmC1bWoxUi5YEIT9J1BPFY39SvNH7I2p0xKWddyunHUW6aUH8xuoMvIfwgwNWCsTrFUkum0+xh5RlXKryCa0nsazUuymi4lAq9/4gQwiH4i69S1aas+H/ADMsQCqZP+Q4KL3BTK/fmO1tRFTvGB19u5VNmT+zEkaLIM6WVldzCrvY08xeE8Sue/lX9DLMfHcrjvg5obm5abZShl3AdBdnTyS4l60ft4JaVDNNQ2GVITeZ8vM3LD94vpCewdzTMvmVD7xmhkpYXbOIyAMKNylqW77/AEiGG1V13DHdEWr+3z6l6ouGVLCC96IOXyj2Mr1UqLumeo6gtwPuG78xu0E7bxLS/JNE0ClEZXgGry1NAbo4mSnRfXDUSfvHAUU/4ms8K/SHS0+Hj/n88QqU2PCF1/7NmbDbGfOYvV9ZXFtwbUz2yzJhG6wFnUEBzF4HUTcaMrylnb1IK2Nn5UUHgmXFSpUrgMSua/p9y4SuR4uKXxgjfoDCmTFe4FJcOFnUSdDeo4bRZBwceG9MNaYSYg9N/TLcPEuMJGUPeYSWoet30wyV1vuMMhgfy+pfcdRj9PEXEAdDUpBRkDvgkKp+qCN3/KWFDJiDQT0uj7GKlmo5gxOkXQIEZXoVM7k8q4RQH1NYsTWh+6H0wS71lM/X1wiuHUoDognzRlbb8ymfdX/Es7YYKcQwQ7U7SyccjA80KI6HtueLsbvdJ9vmUbkoM/jLne3nxKFm/uGFbOBE51oO2PUjIXA8eCAoVD9oDFpsHv3MJpCOuTg51xXF/wBI4vHFy48bjMowhZQz8z1Ds10gM8v8wKWq5XLK5YWFJj2l/wDIgoI6Wswdu4WQ/IjkDPh3PeyL0wDe3myZWb+0yEUG4iTd7/tBXlPZ4lQS/LksYg4T94tg3NI/bCVrPKL+8FDxw2jJBAZqMtdQgKlcMt2mEyaOKFuZozs9kop1DUB5kNhdO/2hGQ6Md+pjDZWMP/Jq5QHvzKFw9O/TCsoba8nseZ/ODxLHxwi+F7XcxZNEIum7Cl2k1gGS7hACqgQ4NcVc1xXx75qJD5Z4+v6JgmUNNRmy0qKjEIAqa8kqcHFdb+oWPR537gYrRioYB77YuVrq7FoyjqUuBEasWB19wFgF+DH0gr9Vi9nGLjNhR7Nz0A/ZikgjVZPCTIulHPDhB+xMOP0IBKYY4qVwESBjUqVKlQ5Hv9qC7l/2QFXAt72TySivyMb3k6f3mS3afP7/AMxw/Wo+IIFSqn/yYbcgQVSFvv6iQ4KSYoSl3WwAbRQ6EN/k9wIYSjhh88cffF838SJNS/jcvEcxjEiV2myFezZUpHOO/ZHuHImEl52ZHFfMoUxyrEyLdRVKwvyjXkGHAO6fxBKO9r3EmluO/cRdD931LG8D13KqzpKGj5l5D6e9xm5TkIqd8svxLzx3GdcViPGqn1O0U1bcqJolHZB7k2oH6sVXk8iDAAwTJK4yYXeKioXlHl5JXkVgKF8TIp1v3O9djBiBwD+iRZvhfjf9HqHyYxIkx7jR6m430Z/cZCJmxxenoi19slb9mOA2uan1/PR9eYOUb0EKFRhIgg4fs/CFxtjT2CR15D06M3x53+0vHFQOK5ubjGoampfOjne+QKmQW5KxEwD/AAB6fUANTp9wwwQ4alQ0oqwvRPcQLe4oR4RqwbzHxvU8cAYhDHyuvi1K5r+i/CuDceXiokGIbjpmA62mInCgZlsllK+zcsG8x/1+kwrjZ7Yy0Yc/UzsAOjqb1xvgEa2oWn1UvfiZY6B9lfR7/mXv8kue33KTEqdy+dEdzrg3jhhwkuY+VS5lCMOZ4pRykYvmJGW1/epSpa3EawtsXbxPRwViV8cVyS5fDO4/K64r5V8HPLz1EiSljCaZSP7CJJwNzIqLBx/yI6HhMS+nuBtf3KywdwT9N7eOE4LiyGTT/MyHcrIXiBj4E7+BNReN8XHi7mOpiMqalRDGar4AdaJRK03KM/5Kbb/QuUnAGODivg4nXxeH4vyqOPlqdRxxXNWRgYmCCvLy6rOunfkRgGnSiNQModg2N1LrohANkS7TTHUS5WBc7hL5/PF/1NS/g8VKlc9T8woEdOquY8lo2fbCttheACuKmv6e51xcP6Z+N1Lt4Y/JI8tkzP8AqmdkF1uH13AKAt8R7TdsbwJtJ/oQ4qHxxc2vmpXF+PgcX8D3Mca474rm8Txch3UYG9pTSN977WCGJUqVKlcB8RicGo8k18nfNSprfJVxh/RalSokvJUuwZvZAjfcLVyxnlgscmP5nlibSr2wOLz8/wAzudc1xU74rmpqHx6lzuX+kYwQtUAlKhAlSuGXBjOvifJJXD8L+G5njPN83w6gcdSuKlREYE20NJFoX+dS0b+UEUGIBOpWJU1yw9x4Pc75dw3zhLslryvxK+DwyuQ+DqOuLl/Dua+PUuO5eJeOK4uJx1L4udy53O5U64YS+B+NcJLIxTwV/T1Ll3xfHUqPBO51x1Hi4b5eHXLxXFxfm64qV/R1NS/hjjv4M2w/pMNSx3fNRJU6hid4+AcdS+A4ODEY89cEvMvhzwuefri8cXFlzr4jn4Hw3Kl1Lz/SqMtvnHw7hwahxtz18e4a5dcPHU746nXHfHXDuGptDh3x3GHDv4BnU7juE7+A4J3x3O+TqMY8kdx3GOp3GdcM74I89Tvk1P/aAAwDAQACAAMAAAAQBdhRR91595RtBZV9ldtBh8KS84cWosxJUYdlphZUtcelhFh9FFVhNRd595dJuKJ5B8CZFYmuAlwanSwds4NVJJRZ/UEdhp5xCAQxlZ15p9VN009pWLeyAn2OMdMelDKxzwgBNldJuvAth0MAd118xxhdJ9tk5Xs5qnXeTLmlkAEvKuX6glrCvFYME3fs9t0A0EZlB1pNFl9T1dF+v6um0DLDQYWWPOT+qmCE8pn/ADK6ohBcQZQLccTRRQFpgKz0vZePd5KTHDLX/wB1eFcyZzQ7S91K5i3n0nFHkVEmWHg+81kY58+wxwVmCE5ikwEXpQft9UULt4myMngTREyGnnV0mbp0ul4qlz7h1TIgNC3mUj/fV+FQYjj5aZ/ypOyF0gCl00kERChzTHqkukB9jj1yQfJ112EesoX0RYLod/XngYLUQjDvnX0mtnYnnnZydR+9QMmbGviVVAeM61VMhphUYFcccmvAUjDUElalAi54O6JCiexENHwM9lu3ZVEP03z73Dr8RyrnoTUnV3wnm2MFig6EC3hT+EsvSurK0a7CutV3A2t4ayokYHrpnZaGTEGjNtSSEwFPWiiswN9yHtkHe3sGimiK7XQwKamwTCNjVFf9GU1Vw8GInZTjpZPrURDJ8e38XHPfCSt1GfC+XfzQkJaxCisAkHyWt/QVfVxP0PEq6PSwmdPEI9xBqi4g8YtookwSWgoZogDoUEGeHZOHz8KaKgOpzXdd+9ulv+ioK2Tdy0CzdW8cZzcY/rOaAc0umJtfANqGvhsQN9mmemF8E3JXagTZvxJb0OhG4xbTjVjYcYxsNmhv/s19VPVV1FVdMCnNTq6w9X321igE9tZzdpwzoC7BqIFeOganacu6S3iiIvDoCIqZBir4eb38+r3DbxF9J7MKi1rqcbE9SfpWjhDB6ZP9U3towT6D1/LYzFgmKRPl5aoBxNXg4EZrYH46XYfklt1E6hVXzQUaVhsLcPff54w8dXX8zkN9LHzzixd0m76abdmUTfGoXBGet+mWCzaGihHdX8NQfwZGXBNSCWe0HXlPPrP4Lpe1xJxsLHiOiZi3dL/5OyQn2EpFD1ljbi3tn+xVq0bras7ftMXDE78tQOiCKJ1u3Tx6k+Ue9KFqkV8NiDkT+Ggxykv4qbyvKeQ0TDwt3/bRcMmD6xGEqgBdzWdfmjmMhDcw/qmGC00/NLP9lvHG/VLZwZn+nBITAWMYgxgHkTAImCO/4n3qOs+3DFsE4Y5NJqV26e8HFNorwxnlYQY2XF1MkUPQSLmjnUEvMthiiHwp7ILb1n3GXYJdgihjo6F6X2lGH+9rtwEefUvveZYP55mTnLm5tr63ttPlU4Sa6erX94rW2E0GZ1arupsbnlhmYeuL5KalyWXhJsMgopvNXiLIcByJtHF00WlEPJop7kV1tjnRXnwUBE1QUl9mYbIbe+N/MUGEqqsn6bsN3+mnP8K2mQmuGh3LgfxS1G2RZbopIM4ZvGft20GV209fU5x88c+f8HsrwQpDSWil0V0ElCBU7N6Z67z/xAAiEQEBAQACAgMBAQEBAQAAAAABABEhMRBBIDBAUWFQcdH/2gAIAQMBAT8Q/Xn/AEA20Sj/AJOfI3OTBs3R+8bZMfybIALD+QD4Ce714E/rLBYEPha27eHq9fEWS+vHAlVvU+Rs4/GJnETyQ3Tx2jrE7k48htyT5z5l5zmXwCXnJNN+jfpDIw5Jp4XHhzPAwwV5ePAv4BEl9vJ5Y8vkzZwI5ZeoNmpn2c+OUM5IXwG5bEMYnKbuerrcnJ3kkv5/AfI/Hf7Inlhk44jnue/qEwGcWDDlu3BOvgbXwJwyI44XIu12g3/LXrLdvifB9IeZeOI55lz6ieTwAlngB4Yuru6icrhjgnqQaZPVI7HvyeR5X6Rn636mZc2DxdR4TY48HF2kWE5B3MKkyIzfdsQ9T35P0Af2eHE8RMl9xyrDJeAuFvF3KyV7F/cuVSGzDiAg+p8FmeR4X8Q1k9wx2TI4jG5EU6YtydYN7vcccnuO4dzcT35Lw7ZM8P4iG9x3JNsTuVru4zWTYshuufDcsRxbBB2w2nyA8QmDbH6jB4+gh5gTiByZNuR8QaycO7Bjkg5uAm79JiwxMZPd0eDIXLl8+UuQ/s9/QrlWMz3YTFRHMi5jEjn4F37ty1nUd3Re71liT47kcsv54zPo5oTNsWee44h7t2n49y6XK/2TmEHqGfLuMXLi6+kFptdgl13fw+WQMN6lRz5jLqTn478djj43E8ti3XwWS714efpIy9XB8V6W/d70Q0OrAcw+pYc8lksXnbfgMuwLOC5fiOW/Vsrc6l+KxTwjMYb45eDxy7+Ft3O2cTofdni6ltPG/HKeV/hYfg23y01+Modmz7LXclpkBwbgLg3wthHo7kA6migGx5icMgL8/RcBaZM878n6MZnljDs4MkWMsY9kCXDw66F22depcfAtW523Y9pgLliFob/7B6zdY4Lbkjm35HiX8CnEI5lCdi83cPCEySkjlxILC5jJTriFyMxOMg5YXOVAP+u4KdJv7HwIx3HEvLxYPC2/AfwpDeJbYekMZPeXhbNs3Qlw05bYTJueNN8ATHweIOtgIerQPcyLTePSDIYutgGjv49TWw5Sc24GkruFwcuaHXScZ7tuR8HSBg8DXxk6cFmTf+QwsatCQtZgdh/EerH+SPwloYwbRuEjjpack7NjGXQ7bPNicQPnj45IrdT/AJOpzJDTykh/nv8A+WH6rBH2nywdgFiwOyyYynaV6k5njqb1b436QyXL+LLSezs90G72x+MsmMMmw/8AuX2tnnqzYM+3Nup8LxcjLPyjkha8LnObfUP378OBI92fRn4N8A/scPxZIfq38G+Mz8r/AMl8549fHfqzx//EACQRAQACAwACAwACAwEAAAAAAAEAERAhMSBBMEBRYZFQYIGh/9oACAECAQE/EP8AS6JSDf45QT3CKiAYB+5eaCXcCsxaxKvh3Dkq3HonUqoc+ytFxbybY9ZDkeYHk9xnfgtwZtvG7KCd8FEEhv6QkBjyGmpoxbrGxK1KxMTcqoMsduOMLbCkHvw3S7cHQfRRcVDTgU3FV1BbDL3LJxGG0CcZ0M6EdEMCjKohazhDbcWiXHcEefNYhslbhJLJQ0RlZDBubTmPIm5WvAevBesDfih3AuoKJfqI7jrkLr4hOSxuEILj6QTOHGyFVc1x1FYtzjC6rwuMbOFbgeDlNRV0yqgthz4V1BphuNU6Qe41glj1DKpqXeXZgx1OJpG1nGVvHcVGTRl8GO4LgqHxeyXqov5PSxiVPdxozYigqPY/aCcTSOIaStw5nrAiwbZ6+Kvgo5KHcGyJgSXvUJII2MolhUSu5cEWmOpaXuVEtLXDDOsucx24O/gfiSGobMCHZp5EjHIrTpBUEwjtuUVGK7QdYOwlqhdww9QQlQYFqUkNYfoO4lTYnY+k07II4rag9y15E3BsqLVR3LawQSzHQlBD38Kj1UdFTScQih2UfhElbfixiZHvGseYGbgJTNkUllhWAzUqVDIOClhbnE7lBCUNedE240aJx5pgSVUWNCCsJWsWimFPjZUqVKlDcVEdsNEG7MVepYeFwWTjUTrix80wMMSGhqbKYTGJXw351KiXHfU1I6KJsihEuXFRqNmo27YN886yOILD7nZ+sCvC5ZEHceFduGGstO9So8FSssqJGAonUORQl+AslBbCGj4EiYJGO+Jtqoo0bgpWtToSxqCgKtHZcP8An9ZIitMV5JKIAilBpDwS4EMesvgkSW6hi5cXUcBCxDcf+zUzRuK0xsgV/DHt/wBQxS3wmgeodb3OieFYqVLJVNy72yxqGawfEkrIdPYivSepcuYqX6hqXVFlHYLBzsSrFn+E0iEIbV1lxI3GA28itBEDNSs3Tekp3CB5vw2HYTe2Dfzs7/MNNLCBX/UdqIsnCEu6ZweoKicht3rChgJewignpNlHZqLbB2vyiO5US0eVNoWwPivyvSlIWoNtqCdkqWdgu3JZYRnHIxMuMjxORfRA3XN07lmIhBSLtVsFAgj+Eu07CpwMe1hx7kPBjAgfC+Kz9wy0ssNQppwXtG6kV/zELgfkTkf2lkEINIuae4IchoQdrpLCxlOJ1E0bZutHUlKn6TCb1mnwoUQfbuIG3JoFxCANT9HYaOEvAyxvkNY7udZc1dvEbBU5hB/jgoTv0uJqXGJoIV5K1SOMg9UF1EvH9MqaSpyWMvFSoGAwz1CMOwqvPxCCTsZprY+kwWGMPz1Kbj2NF/kOpNEzeu2XgnUqVK+BhvDDUVQtGU3XnZepw+i5SWh2KhIrVyepyDUMGkoJd/MMXU1UEjx+qyyP2ILO56gHrkrcr6fWNVD66Xhpha/TtgfbrwfoV9A+Q/wn/8QAJhABAAICAgIBBAMBAQAAAAAAAQARITFBUWFxgZGhscEQ0fDh8f/aAAgBAQABPxBSL1G5cs0wSLc8pg4+kYlSsSsxFIeY4nAVLcyn+M3Af4vgqagQMZ3GxlP0lnMcMAeIKgdSqdwo3OE1EUdwUu8RPEovECVUrGd/wrOJgvOYI1LE7lhWYg9xw4loEAiLFxdZlBMMBJdy+4l6ltzZEBjJdys7iNkMeImYA4lBK0xI4MEoxiCjErEAMw6gYzECMXcspl9TSIUlUQMEC+alXuCtM3SNkDkqYEVTvnxMGYmWiU1NOrjdRvxLKyR1ipea/gszyl5ll+Y6p3K7mEVVTcvqCot4ILeJdwEO4nKZGI4mE8xH1A7hqXmASm8alWVA1jiVcTFsrlmmIEbjcWd5g1AuBnUqiN24lO4DzALqHRKuWvU0SsQ3mbSsR1HE4iFSnfEHLKswx1RMhB5bmTGJe5oi7glXeJkxwrU8pXOpWKNzJL7hrUT3LqLmXmLBz/DKWFn5nkR6TyjrUy1CtdznMqa/gCN8YlYzCgZi3gZRYlu5RK4jSGNJVmJrUzlJqHJyxy/hcSy5mGLBolRxqYGcwrFT4jbHM5p1FIbviVnMcEGWsMDOcwOIdJpZFVqZmDqUSiBKmRN83GGjSxs3cEcG5eJcTEvi5xD3mZb4iU7i7lC3cY59wd4gef4QJeYw57IGMysy+DcvzUVME7lMPmcpuczKyjdxBwbgxmVi2KnEyzK6lwNz6odpcVOIPDLfw+tQbwxBQ9SlXNlk5hkq8zkSzUDcO0oYAMES4mMSkjkftCnNkzL3ACjcHDKO5bzGrxE7hv3Cln6SqMyllMCt2OZpechajnaastwCUN48HdXcskdXDSDpWUpklFXzAxmDuF/7/HeNP4lBlHOYhcZRyRDSqmpxNsS4+SIOotFEOfHmCmXXruOC56mEFEEkSvKHuLCXcpgcxsc6mGvc6ICbmmCBBuV3MME8oHUBlWQKKlYzMJhyjjUVUTphTuJGzZMJiN9QKozmpvBuVxuYhLi7n3TXOJgrmUagQuWcsGoNS3KHuFtbjuY0gVBnxALihUISLUv3p9cS/uKsYjZjEStQtkQr2MzBkbFMDl3SGpuKssSqFZldUx5M9YbyT6kp5jEWTaV1ExmViGV1Cggju5mFYamWZW5xmFXiJekQ/gWplxiOJkYxK9xsl3i4l7lZuqgfwiahmGI6xKozHJACDTiJl5xDJjUCnMBIeEbZTncylhhd6mnUdxzCxAqGIFuYBcsMQJAomec9zbEd5InIy+5RZmLj7zKirJ1EpJTG+ZS4NzRNXBJU9ywlLb/nmdkS/QH9s09SjLPo9RwuZuqq4+tTICUtXiWBACzzNMcEDSUdQAdKp1b5lhYeFi/mCiTA8ymrbosTIdG1cW4JubYhxCkJ81KyXHepeJnkidMpecxCI41LupV7iCU3iqi1j+AQPMq9sMS+41HeImMwwxPrDzucRTiMMal6mLm9TEacTtMGe4G0gVrUrueUDETEFXiXMLbieIfJLcxwuNPUGBuLoQscOZUWAdstqXeNzjvRCWh/lD9wxIXS2YgMdBIt4gCbIs1EMpSEF9XKkLOs/wBRuyAKiB7axNQK6wJh7rwoUAES7GK41K4RcELDJOVLLi46dDQkfOIOcFhpND6VLRLVMNC8PeI6w0EWMlQolSCrnv8AEsG7OV9AQoHUoiDAhPqMzTKnatB9/tL5fnXlfgIQEddHZGKpj5y4isluA2TLEccTJE2w1uHmKQ3BiaQLggecyzC5VYg1FzBnhFjO4RLYFQLh/Al7l3iZ/gN+IWwZmv4aj4hUVmJUpjbylnqGHWJluHmLmoUZgViKmICvUHcDxNJsZgr3Nfh5ZYkJ4ZVuJWWA3olVF0+4sRdkOsCX6KuNGeLhvYg2VeeoIIS+tQB1b0QzvE2uIqteJQRiz7ytDA0XUs2opQcNZ+8XqFN1TmV4sayYi2ymlXLv+NbiXDE3llIgDQXynmIlszPslBNo8Hn7/MCapeH2Ix2ZYZhzXUx3JXPHMEIrOPkr7S9IDhNVL3ghhMkjeX/Exl85lsAInggjvBjSSrxESrI/CFZO4EC8wXMoE8IYtYkCnMo9I4YtkvlKLmBRDMCsy7cwdQKzKvmLUNJiBjMun+MoSesQcbjjUGzzEvEAY3MoU3KfP8NmBRTA3iZeZkQ1mDe2LCRdtELKmBw+qMVwLarXzC/s2ohLORdeI0zmBHcqGmHwNzMFVOYRnFbO+YKitixD9S2C4O/Ud2KvNsxhevEZtmF/qKZsXuFbATs/2YaDms+MRMy0Ab5zPzX3hfeItlky1L9xYxD2hSFK2YmqD2/7jUEAoKNNYU58y7X7qrrPuZoA9avxKYZfPrH6/iVYTc5Noca9KtXWXltc+DqOKSt1OV/X9RdY4vkzKGAHtiBGr1mJgLnVD+J4CZfwDTB0vMJuZkOFxGZzRJTyxaO458SseI4UVDtNvUCalVLriVfMQ7i1KFyygzBAyyx2TRBqX3MtEqJX0lL6nSBU8JR3AiaxKEiGY43EDMTF+Ih+LB5iDONXj6Q4mplSD+txb9AMX3fkxLm68u5g8ALldyFy/NTq3/ADpCLHAILdQ8S4XPsfaAAuTS2KAKapYaZWFFRbHCABwvxKzlh94QXC8EYMEqWXVnmy68TCrZaVKcEUbjcPIYRaO2BUWGuYgycQLmSgSxrPmI0LeI2WjCa1B7TOXO8zz1MFwhCOWeMv7gFkMrw3A6iizQaHO9fWPc2Kj3mePoPej7sqOCFfbKVnGpxBxPaGNR5KQzPNRHUz3SkmfrECTnGDYVj1D1Eoq4eIuIzFYlKeJWO4luZaNtxbZnmDwleZXmI3qIhAvLMLC31KIoQy6YhzEsg1zFbMCuZlETpKEqCq7gRFsJRszAEELcZdH0EddCO4NQJUozZs/P0iWAt2ZctishpOD0M0mOZgbw8EsGobYGFqrNz+CMWCWNe91HRtE5fQLMIS8Cn9Ro6KA4P4l3lg8EZtkBfqK0gHYt5uAAqEW0serhluzJEz4eY9hCzkeJv4dcMoxqtfSDYH3hj1FpxF6TmYDcekrfvCMmZmOpfNuOoFUvKOqKjUYJ5Kj0vUW7vmCm2qbPvKQRlAVMXyNxceUSPcNI+o/maJuHTMEVi4IV6VFCECnHfHBPHcD5eYWgerGN/RYe7iJAa8C8E3QmR2fMycktbkjtxcVl2yw8zLmcbg8cRc4I7gPMxHP8C2/wAVcc4lVlA+Jk5groiSrjK6IWTIg1xDy/iEdwHB8zF+IStvtL4iQfu5/wCTBIBNInl2sMzhpuESHihvyl8ApRw6Cl8f7+5iJrBwxtk7o3gEsrGI4ZZR1O0vNbEOGWKpatqHljmqzNUguiCxngZu7mEa590n9yrfzFmVFOoss4Sc3M+1KLUrwmzDK+kNVLcDm6TxAACiVAlnES+amWJiZp2MF79wD2eD+LCxDy6VNCsS63cBisiXMSzBVJ7IXIxH9NPCQCWWjAczpgOodSnmHCOILLg0ZMTLbWg4Xr7hLKJsrdrmUotDZG7+q1F0tmgW6OCcAZZwbYbaigOoU3FfiKrggXATSCsxPU01KP8AsBJWYeYiOeZdVDO9zjEVvHEEYY1EHUJ3HL+G3xEdMwhyitDvBwpalBMAUWnm9H7lc262Q5b+YgWdWB48wKNnADScReWIrsjllzSCkYJzQfZiML3rce5T74yl6DXPLuXK7Fn21A4cEUVU5WqgcI7rkiFtWH2i62V8RgRxp5/ESVCiTDKt+lQGBr5HuMqZQfa/1ArvibZi8ELDBLyOOoFEekhWsUGAjmT/AOgSi8g/SFKINY3G44bmaxFdGd0JX1nbNFOI8riDyqfBQnbNqn+qAhhDDn1E1OoJQwXEam2o9So1uHUEumLeEvDbF4HiCQLmr28EcDLQ6BhX3+YIW8YbcHlDuJi2IC6PdrWOcwqZgA4OD3zcY3D21f7ZWExZ98xRRgVrNktpGGBgDkSYYgb3E7nKYHcVjxuEKhncrOSG4NcQniyJ1DnP8FVKag+IVKdGGVOZacYm+kq1rNTTTVxLZd5iitAF74maABZoxiA9YmxphrJm/Yij0CVCtwznCYKBfg08KlMAPFSl0bclPRDQnFZ9C5o0AaKG/cU3BV6sjpbOmYBAwSiylfzB0DzwgMAdl+omq0X6hYpgs94/cyzYst4lWPB+CONccQMSqK1SBiHD9fc3lQQBXaN9z+5gK6ixKcbijAxiJ5lA70/H/YKBNccTHuXXKVDDWy5zqKrgUdIPfMycJsrZFQOLxKUBcL5dCjr+5nDvmUdMROqKr4pkX/z8xpTBoR5hMw0jwGDP4jYarQA0+lXD8LDbv1iUJMaPj/X8SqFAVGEA1xMzbG4okO2VJNk27KhBuMGh8QL6h6lsyu2U4ZWckSU3KrmW9ESGVMqoFyqdwDcFkQNsLIWcS78QumLbiYrO44aucVkqRnhime0EIHglaMIojXP+xLoHEODHMwAvdhgSCpTY39owXBd/mBmKs6LljadApTq9xNtCYIf9uMksi9B1jcsghrbCG+eDoZhVag2gWPFSnQtkd+IYYjcbi4BB8ESGJhn0R/UQby6hljN8fgl7eBXyMLJ6z7mAUuuJQ+56jX6p/UAZQaRPEJOXU53iOJnJ/vpG6mDwLy/wLFHLiUboFQfNwFWLGcxI/WCyye0ZdedTqK7YlkA7xAO0F8fwN4xNpp29RgRypNRviHZzLU/k4eATTzTHuO31ickBWuSfMwhHL55/3iCBUE6KE+6USIhRdvKvARWFBy55fZ4lkgFYfc3L2SwaDr1LqAlWYirUj6i3qNxHMW2Y29pr3LvLuJbJbM5hZxMVcvOpQ2RXOcbl1leZ2M8CCpSvMW7PxMIIfAqWgael1EVZrfDDmFqyxK4lSiNGrXiVaLcCvnyzNJxQFDzFiMRRMd7brIT3k2CvmUKOKGYNsVuAXfiAh2IHNTORdRPcK1EqT5VctObFbLoa7YIUPetxwldl4WEyCbxyQf8AsQTJY/AwBe1JdCy2oVtPvDgmB8K/Mq0r5KRk6OQ5iaSihf1hE8kFPxAadzyWzcC3F41A+kGjxNfwqgMJhIEIoDYH9xMOuWXYIeDWodqJSS6wnjZghA0wtRG6i2X8zlVV/ERO1dRo59A5gESryr7gyXWhvz6mHTiGMc/uUhgVUEU8jKdSCnVoPmvrCbarn0uHllSigeIePiE8pdrzHSrvayoB+0jWq4XqPSOUcmMQMZzKQiKiLqXOohnW4GNTcXW4MDkQOeZlC3qYcQWDVRonjyy8ayw389RTsCjemNmM3VS0yqp98QVJbgZUijg3v/LDgDijUEh9rUVAGv8AYxmpNRDfBmGQhZCIMUUaNjpumC5otwShFUS8sUH58xkDThXz5hE1LZ0dzAJjfZCMuIDYxrF5R6LlpBVfUI8RjwKz7gFh8LGBlRUeD6hsM0X0K/Uo/pFutoGfMdCLWO03NtlpRx/qlGwsLHYjYWirYalhyhB/vrO6FsIYGZDcSsm40UwTkT1c7zBHR7mE+Yn7RifVHs8WK7ZUdx0nZFm2Uaz1Fe0Wm+NkBdlTpzOEol6Z3i8s0Lxayl08Eb76B29wMtsxTkHpOX/dQmghVhmPaslQ6qBQ9R8S9New4f8AmYIFeEcuPHB8xY6pIlitHimJa1rzBKnJBjlZF0RijAaCKvUsvLOeEl9S1NzpErbiJeprCAzce8R3kgN6lK0wpJjVR/CDFIyrBE+hOfHZhh0Npsjy8wcCHarmW/aUHruU5HaOodpqWFajusSw09SkUlqURPIsKwPXcZu9KKkbs4OpldbcQ+eY0hmgoSACWJdzMItKMC8qfmVXIsK3lF2A83/pFYyWmt5z5/UTAgqrpZfNV8y/37OTP3jjbiA6vzDONaLB2t+WJVDhpUq/mM4mlw+m9RGpWYqHGI+WLTcuTVFr1TM1H3oviz5IxE1TwxFYTMpPiUVAdStDNqvGCDGYZ3NsTbqJtuC9pljb+DMyCYfSZ0LlAt7/APIRK0TDrF45x9cSo7moMPI9SjeRK4KoKlFKrzDOUyxPdcSqtAZYJcwZjVe1uOD0euWAGgVFNTB4OWX1KBT0TPGKrQHMocIEZwf9PpLxBGmBc15qVbGw6ihrmv1EkMgzBhW2IDytGoANnlnLDgYmiOYcGJ2RuDl+0zK7YDua5mSojzMmoLKSK4Oo3NKVWOCtd0iWIOwM6hkhXTd848zIa/lHuJwyU6HzNwWycPUdksWMwU9mXTFgZdNUZOvNj5gYgUAS9fZuWg/EZDejySy7lU2Fsiqwy1v/AFQrQd07+dy0tRdceIRYNMHPjZ4mBxnTsCcZgNyAMQE50JTdMCzUwFZE/qWhvUBn4RRCWVdRll8dR1lt+4M8JQc6Lpo5meUVjLK/HXmVODvAJuoCNromMx4WpT9oLJefyV+piYhbzOMFQ4EankCvqZXhKQm6EQlcwdr+CERqEvyHEpHfcdRrFRDKsE+oygmOjmU1RUFBWYPxC3mUcQfnGXVbW46FA34jbEYPCGFovL0SwHVax9SCAYAqpkYI5hbUHbCZLXKeWJGjAUS3dkMRO66+JipFlniW3DuFqDAfuy+hmIbg2gyscu41gmL3KfMuKG4ucMu8QK2jkxNqcSnM0XVxrMy424EydzHMOB6ItFTzAggWk/xKyrwhdPxCa2+O06r9wIAgb9zLFBVN8QdTfeoYvMAMrD0tRsHVv2ikplS6IVywQ6IyYMRL4eSM9zi22mIxYWPiBk6BI7EoaSqY6FhkUVF4yLUVZ5IC1ibcrPT+IF1kfiFyb9Qw/iCxo+sagBYexIfcq+Vn2/c2qLIy9KpzcWMGf1GYEXWfNxejncC3UAOHFMqN4XA/7ALBStRWrG24BQ3jbO4237sxjZkisirUaHXuVo3d7qYnkh1fW473AS+CaZlFflmWqjg1lq+x+4ZliiiWB6myZGZSZu+JSYepTjMV4ZhNwJ4gl829vE8EyeOD5gGAANThDZ4jOZT9IlLmG2BdTb7AHg7mU/bLrgpweCAukquncwPg0x8yhOlXKOAhEFBjEr1DB4DEKWiCtxmIu41RmWdkt1C6lcmGWiuP4SVGzLVTEkx92ryhovneSYJG6eL4ioDcesFNvJgwROfQBro6PEYlO1xVlANW7ilAx4gHUMnhr1LEhzKF7f8AcwcF45A1mjxHGpAhw1EsL5oU8Lzr7xphWLBe47ZGBZq/vUAxTAgt1WrYuelK6vmKHF06bh79TgDFamN1TzKSHD/dLc56ne1mELtpGpy2qu3qEqW19+YedpZVnmMgC76J/cXuMBy4nt/5AAlVvmOZCAAyHcvzE00QXq1pV8yp81WOGeY+INGY7OJ5bX6/+QB/CfUexVq1AL0BMPEDYJX4/wCzNnbGZJXdSwDlRBOqgRCVfSUICxnrX3mbK637hE16DnxEYLLTv+p0IyvEqEqtvgQqY0QSyfMwBrMuiZgKxCEDVyoV9XsIlKoLNzCeNS2cErxAoKlb4lFIODLKgD3K7Y+URMIT2xq8soIHNyuUqzU8Jpj+ALnWGhrcBqxwkUKsfAIo2V5QoQaBiCEJY0ZLXfoEJy5/WfqM3+w8kQ4mZcBWUQeqeGPa456FccSw8HAu2CE7GAE019MTJA82Qv3QOW1J/wAj7WAk4KGifeU9KDhP3LMus3CHKkAu1l6k6sb/AOzIJeptPtDSXcXUMTkNsBbQwaI7X7ynB+IH7lzIfIYv9R1u+4KOrh02rg4sOb8swENK7r9wXvLm8v6jcf6cTxcH2gQwwwqX3MdZnwb9kqLwQxcZWwXD4Sv6w0N6ltdweePvFqZux+ZiHMUVRlhiHKmKHaUuIrVwRFPGD3G0HzF/Mef+P3L5nDn4EMJlcHRwTs1C5FwTIF5n+ogi3whI550bXUPIPVdeIGstH1YqyPf9YrKOYBkwppqaIPKNcuYfWPhUusTOoBzAscThAX5gEhN/Mpjksun6IWGAQ7JnnjuXDjMycB1hmuG/i6g5YtfeXomdIBQUqxz8S5irs/McUzPRhjEcdE6+JlCKIZsuFq+pYVVoUsbz2TffgHOvUKg3jWONo2vmhXdHzNK3l+5BCsFNxEwFfs3LUcM732hOp9FpwHfiWYThfsMTIpETI/aVagqFWMTIuIOxgjfMT4VKKgziPL+ItQirUynSAMurx+5YLNr1BioBbGv+y4lvE0fBu6j758qgtZQG+XuWJWgJdhioGb3KvTPM1+ERuL5q1+8TA4lgGosrneqK+lfuAh9Re/fXg/7MIDKZYllR15m7qCjbUfEwM9w2zo1DqxgG4RhoZfMUDey9ygtbWV58zcdkKDKPscEHEJV8TaPNB5e4NrttYjw6AjVFTw6g02v8ZRBlo9vcPggahTeoEo7iJh5ZzcMT5QDluFtxG5atTJphnAxoqrB7XAS37ASgIspGHB8S4lq0vUHKApHmAH9wrYOa/EpbOFNMxKUoXAQtAZVUc7DMLCOw79Tkuzw+WPbahwPmCTHIMsGpZilpddMEsTD1h1rojgHwHyS8MAWWPF1C5exmMu5fcy7hO57XxxNRKWWdn0jdoIXw9VES/bapfmVd3os/Qg0GCJVHGbZgLxuYiomh+0IprWVXwEoiKsWq4t5Y4iRkLQQjr1FCAUSufiOJVeQ2FfpGRdCuV+PEMEFNL9y/VS7sQNNWa38xUOHmsuCAB/j6gIAAVDeWAnGIDMKS9BOKI5zX4iEW4VYj5LH6JsCJWxshwpqUm0Pqb/ULrozKIMIe9s7NyhFSrcuUQkRxl7hbjmGrcxXqEzhLXloi2fMw1f2nPy/B5m3zKoGUt8cEwDWVg7e5aNjt8QKuoEQwShaeIKtjUefLK103OBrMjg7gTdBCnEGI3F6JQl/SYTcaIA4QhOUoq2DPmoisTY5n/jDVjvLvxEC3g+Cod1C6TI59xbK6ow+YdPCSVmLQfdLi0WquCOVFQDN1ZIHKi42ROdZqK8PPr8wKxWwLXxKAtVCpTdUxzR3CfQCpc3LDwU3zNggwzls+IQwMGEJhlNDHSeTJeo56xawfLFXYTXWy4GBTk8TUAAFv9Q0RLzae9TMduig3m7c8rcLDMNVWmJZzeIVwKPpo/e5UNFIrzGO4XmiPnRi4GOK83BYCMyY33ErkeHUNlxW9YX9y6LLTdxR2wOeLzz8x1ViKb8G482Gl3UxJSwnHMYNaMA/9ipFd6mKNFWR+x+0Gpyk+7KyQkxLXJZduniPyM5nL94MikLYL2/MrfgBtqVRhaIuHogoRHkfSUCjLocxZZmDbCz6MwNDArZLbZ27lFb3EuoawjR1b31GII0AAOCe0di1jn+k/gxHaPE7114hVwzwdxmyvtHLr1MBZ0VOUrMVdy+PE8jMMtwoZm6zTO+pq7lFwQZxKYFh/MoupvHEs5nqPSewhZxFly9TOMGhyQ9TJdx1keOB8u42c2AVCXq4fAovwvI7gtA4J3LQ2E3KmGYU+8BES7jGwve3U1gGmUUKKo95JmuvQePmYHIrBVHEzKJRyEs+kHL5lo3iOSrcDNTKtVP5nuY1A8Bjl4lhQUE0BdF4t45mAb7zf1I6JyX/VAZWpqVmyvpA50JjqIBVLzMmicl2JQ+LPrMVuYybpp/E5IUsuWPcO9sP3/MsjGX3jEKCnNxWJw48f+zYQP3/1ylXeUy34eqkIA3VacQDFGgIXmEoEAZ21qO+1mi/LGC7u4vQB9pao+5rcLKOeo1pfpqH9Euz1rMYGoczh+1fSVfVK0VcEYeA+Rf2ud4fpYqNk9hz936JnaIZeuYJIrQU+uHziJ6OWBF0Ko97zhPhjolVh/vpLau/UCincVc6lksPEz3On945QAWrHQUyA/D/cXWYCBkw9vBEO+xYxFwnM4odszT5iJfTD0/7NIwIq6WC4J8qjylNQgJsiYiXzKdy1Uwoc3AHK1HfKdncQsNy4ocBFnlqZmYoISZWotHKSkyumVzoHFNyww8jqKlWFujwc8LgEwDhh2twHEAV26MPTCZKi67RGYtQwKFeooG1UPN8ksdqgxHpF3xQBAuyZb6hDBVBUMNU2s+TqZoQz48QhwFI6qNVTyWUYfu7dv8ErgACy3tf24i9jdkKfWjPxxERBSje2Ootq8jfyfqNIlYTSDiFuBhmQENed4/d/E0CrAKzWu+PvGB2pSVFRSwcVh+aljKDI+JoBXnxCspBTORGH1o3gzeZcRWtn7TORy7HX9wKTNl6qZmWiqpldAjRodV/XzEqleAEFxcaHxKgpxxBA3EHTMc5li4sY9/4Pw/BQeYpTXMCgKzY4v3qvolgAcubnBrg8gJGNbJvr+5sgwvKtf55jojYUebhIUK4CvDXOs/4lkWVbbcuNiAc/+Eb1zn1BVcTszMG5UZzh8HLBa4lXpEHkOesns/sliupaZvuvUqnXLyZbaxBbHPggl0QfuUy47XTzETa+nvzMA8s4rtejuAGoirEC4U3KuiohHQ5gtF1LahXh2IxC6nRNiI6JqKXtl5SJN+pYMRwXd5iFWOx0en+5hcawUkT8zR+JU2CgILxVxRpyQWwN5uCgJvrzIsemb0RGG+zxAqp1Yjd6Ec+JTvHVPcKoFYAzyQEIQXB6a5yx2fFpa7iKLtqMz6uXcOQyQQQSyOJWgtj+ogHjRVtSYjZoubNnzHwMJm9zBrWY7i8ZIHtuPo4+SH6Rg5JR4Eotqrx/cyHyU+M0dY6hc1u35jqAodw9uvvG0hvMnniCrXPF/wCglbW1/kyIgfG3MvbuVvsFPsPzMWS2NFGyrv7wpyD2K/RYilLfEjy18H7zGjlc2/EEFVm9fgowHhFx5mGPrL4anHGKnewP0FYKFXQ8r8mIIiFRpMvvBdS6HcxasGoHpZC9Kt/BCamHXowRx6wAeYmQfMXn4IbftqoAJn6ng+wsQqU1FWGKsuZQigBm3VQiSdDSB/c0FB9f84m0XsCrf9+uoXFnNe5WHO75ijW+fcJg26jPbyL0QcJejcsDdsV/qnCveICYXeYtsXH0QIYlMRq4lVomdfyPxGz27XQ5ihAqxAC1OBfVxYtKLa6ZRlmHiY5ZWdCl15iluFMNy1Q7mRZCtcuczEjWeB0/3ObTYtnq+4nyG16hhdfLcIWRvuffrUtZDJ1EClq4SbVmLY8UiYtZWR79QWTN+IXbij1PcEGbrrUeIIwKm+Q6jDFag2dQ+aGTVLKneoSztyXZPVFMshF5QKC2qeIyNVhsBwfEvEPYDK3/AHC2o3jv5mLBKrwI8RQRugMtTy2A+D9w1dF+yzX3hb4mP0MQgQ0AahW/3hDJnuyGdD6SzipTjEPMjmazDMsrzCrXBLKUgHu5QFvmacMUPb1HHqLgCNlQWMFBtcpf/kw0peii7z9I6/OEeAFH2/E8TWFxCcC+P/DH0zDo/wCafSZxUalUMRwTm+OaF+IVv7xgrbU2oGeoG7N/Y+xFIvRK5qLNVA9rREvVLXts/Q/UXVV0g/8AJ+Y4LsEKTCrZp+sJdyK0PiXZMw8mfMZvllhqpzHyXWdssntn+oDumhiSopt3UX1x5hkc2fL1C2LqHBDXlgPWJg7uFLeA6mAaL4A5VjiRewW/FOIhCm0eOvUrvF3AZiCDaPD1EbdxVidZi5jquYqO5lPFxTO01LeIBdy65kzK/ezDuTqbFeHzEzCemAjjlWoPG2jh5hS4sgePMygeJUvWI2dMrSGUlX5JjuIQApO5yS19xKLaVrmXFqzXGIR8tuvT6hm8nLaCGpcxcvqbQAMQ71n7QYucjh7lYbmAhxF0b8VFlfFOHxK1AoHHy5h1PkU9+PLOHVfbC6YO4dEBBu7lYpiWATccfEbYleEuYloXMr1X8R4QqytxH0mogMWnEA2RGEHIkdJb2igTuOKn3L+8JQt719RZY2gNiY+gGGiAvMiYpe4S22Uvuq8EGjfaTGmWRvwkQz/nmG+jUJfLn/s4lqrywTnih+D8P1jYaBmXBDrz1+IY9hGfc+alpFin2foJXMXECLt+qwjkHIpuJ0FL5Latyw8YG3uIHL1LlUW3mXgZSweDt8wVezB+5gb19JXXqhVOOa29yzmWJ5SnxGl4Z5HaIhGAuz3/AHHgl54T/B+8PNdJQOKHX5jM6EHME5UX1XXuK3bkdRsRsZ3LdagdwHDUo9ReGouJRiC5Kh3UFGYWjECaakS7jYujJvwf7iqatcZlm10LiAQYCOImLI1mRNGwU1A0ohQSvcm+9+IozDZcMFIFVFbiF4OZZ1F0XQ8sMIyi2qB/cQYFs7PLMhADC0NsEMISGRFtE6YIckq8LbAzxHG/cW/k4lVE84y+V5YOCtwN5mhWJXuD9wVUzpSX6llZBTgzhcsjjBDuVC0qcyqqgrJlleajQVl7P4LFxDUwnzE0YiFn8RhxCVU2lQvaa+alr/oHH9zEmLI74zjnj9SmtW7X6mR7VWPBCAwNecfwavS7jUvnKpeU/qCE3TEbWiAJVFNJeLPNv2mRASdswSILkfoICNun5iiTcKzFeQiy1ipl2eI+wcF79+phZ5UY4EvddENcdn0iNHDg6RLYUczLVyvcPBl6I6FnnuCDpAvUOmtywJUihGz9N8x0F+fcoeJXbXY+YLZW7GXy/riaCO4ZdzVRfMLHMSU8EdRc+Iqi3MUlkDYlh4gIgpRsiE1HAfpf7jz5LC36TXkUpafRimKLK7lUoVEUL+ggoXUxLXEumUi/DmM7YeDBgGyH2CZ0PUx3jDCX4L/Mvqc5CXa5M03mH8gRNwqanyhjf1iy5vQ7dnqB4sChlOwhQ6AIW+KvHz9I42MKbX5jOSeLczY3CRDLCjkm+sTCeH2gnDuGiswtxES9E11C7iBsgNXiD1LpLU/UyuXNDDMp4ZhG2GWZoScTALBmBlmT2KvtuDJTeRR+oSgMUVVQDIMfEz2ugN2+PiKQxi528wJCraq68sq+Kcd0HfFfmUZchO3w/UYUZRcYxTxYfMo6pLzbfbojIhUEz5f+6jgrXVycue1xC0FTRmXi7xkrn0x5RHFWrqWQW33hU/YHqB1iFFRriCuJcUy6I9n3Mj5aD9EwFWCtnN8uM+YH2XKHENZmjB3ZhBNlqZXb46P+TAYmAxDgkc8ys7QLidI2csQCXUtzxBTEbMw2MpCuoltxOYVajAQ0iXceAoybf+YESBle4puzNuF8sq/RhUo+sWwxZRwPUKjCu5Qce02eI6jK4P8AuX2DeHECoZhwKl16hohYeSMJMW3DPj4iD0oC101qNNKo6e4cJbsTsbx9Y3DU7Hcsr+sHklyp0B6hGKhO9WKg7uLdJvArA+iCn4j3ncvPM1zuC2k+kVcFECcZ8w+CLkIUq4a+krx95uqY1xLn4iXK9EQXFOjEsi34jbEUAkcqz1FW5lcebldygKxfPX+zBj87ZD8FLZVjB4VL4121tpbrmEyoKJAeMPPXTKlDE+nPl+3qE4M1qBdC+OA8QgslYovBjjzACAaWOT66uYNHdJ2Xy5zjctwstDXscy3Kha4VbGGDl2vbAqsQt9Z5UH6YdxWP+6iqjBxCZwX+e+Y+C1dsyov7jzEWlqdQVFY6qAOo7uV4Dry9R8djel9H7gjowOx+4K9ILnRUfkiPATRlGkWo37lkKs5UXcS+JcxmJESmOpt1q3/5hNEwKizkjzwhbIbtgIymgKc/qZPWrwizvWsmVKghdO2FDEpU0iYbI2JomwcD1FyC6zl8+0Au4uU1p4e6c+GCud316T9v3lt2lrB4ICu5llIDqGdovg+f4NdPrANTI0SoPH8DPRjiFsVUEM7ii6naYbfELZQ4i4fYRBNcxDnOMRONfwBhl/jdq+ZhEiYvcopz6nizBqoStxvr74mcdzL0iUtT9iaB1LYBbZX2JlFgwvjLpwZrglxRGzMVBaBurkeorBEBz8vYaP8AsFsJry3te019YBVMFYVx/wBgoCvA3kDqq/p4UKLKKtJa4sj5cEfhciY10S90wKjXHi/g7iotHPjxLi6EQal5X7mKMqOWOd7941hZmDpAcJcSLoHbqJenAyvR2zTWpC+amA88dZlJ0GCwqs8/mc4oXjDrgwgE6iYre3n9VA/lA6ggEWMQPQiFwxAOWZYMDE7xS9/zI3jMUowlNkUZRZb8/U0BXjmKOAiMWqGbpK1TBSnUWLf1E1E2jT17gAF5qLX3BdqODRAgxF9DCz4DurAmdi6WPx/cDD32Q9u/evcxTNt5V7XmVJtgOrlkPCBLxcKUr8TplAQEl/FfxFeZdgftKqvMyNBFXgi5VNkFFBFS7vY/Nxe0ZXNXIBBiPGOC3iUSybPUrtqoK1HsgtwTFVYlUusS7qKUOSKg03Axj8TWqrzKMfeWwZU+UtbzFV+YbuxfeZmxTaFPZb/PmEoze98018y0DWHA8rlx4izKkMYnQ28NdrEwNbONBWqOIKLb9pcNOMfW8TcjtdvcbjcCVaRbbH5ihcB3oJr6MoTUZTXtjguxqUMzeXvxBB5+hE5I5Sg5dQkwSh+hEWgVm2OS4cOMqcPLIFZoxcwLiyVzTtzgzx7lKlRkp9DR4Ml3qrqeJVaD55lFR2ktzv8AgC8y3SYYN9x1Ec4j41MctsKeIFxL+Ykd24OgY99bZn1EJoJRjuaU+PAVKclzDff76gtgNpwC/fcRhzdwuoRRC9e1/U+DrMd+UZJTunTfAU11MFjHg+Xn1r8yvqYbjm4KILi2kMcTDZmD61BjMovuOCCCodrqOCjyCay47GKltulfTMO9xMYMfLM+KgVerjXKTBbbgc9t/SHsxYpRi6d6yQ6VGRFWgfusJl5qYr5n/hSJsgEFtXUUlXKdJfiU6qFc3Ar7kzf2ly7PmNm/4HQrEHAYBC5FMsWoEtmC6j4aIGMdsoXseGCtWpwdg4Ez5Tn7ct0jgwmM5ZYg3bvqVUvvhgCDhx38/iPjqDIa8wSxRs2im2w52de51w23zCnacvvy9SrK19oNhmDENAQMXU+xA2xFUbnh/bGAsm3t9dShaqa4R2yoG8Q8qgW/EK7SBBvfJL4lcF8Ad4fiPm8U6FGHF7dviCD3LbEcMBHDcEuoKMW4+6mZvECPTibZYxoTvl+yC0eYC35fkkP1GWsG5iB6Fv8AXqBcEKUYcxkRiobBDsNyZtfAND99f8mfitW8yxk3HXJcfiGmUEHowN5nKplKa5hnKA7tVCZUvoPiZFDhd+6lV5ycL4Pr9oENSbdv3jKegpDFGNQF7bwbgAoCOCbYWAlvJKYBVlALgGw+1E26dtgdNL51weISDtlAJsLXWQMVKMVgFFOfTLa57Xu/wkvt8TLcTF1cV5iuoluCBeXUb1Uxyhuc/wAROpV+oU1NpjEKNuoFmD7uAtSgZ/EK1TFmUMFsUPKITm5wdJ4cPnUtlyYrmJtilH6hA4SzLjiHNBpeV0EvkRQvB4O3zHYGY3p2e5XsqLlHFt/PqD6qTorivE8w56eJfBofJ5l5EaDy8RRULRz/AEIxoA9dI/BwH4PEpoAYOvbDs1HggvaGRaIiVmWYo/0QSKMEGh3LYgJpgBvuNXiXiWcsW+J2WJ1iAYlsBygMHMpsKg9w3UB+Y5gb0l5I65W0GoFHJiZHNnF1UOFaGcJVN0XnE/8APswIQFrm+XuXGIeOYl81U1XBWKuVZ4mTco3cshptIth/kMFygzUK+zDcZsNp5ou+mPrtqSro37ouWCQqiBgf/IVb8ENglYIlfaOUUb5vN/F/MGP1tditdfeZ2qldb15l8NriAPq1+Zci7c2TgNU+rikVm7Fp8b9yirIBpVm30IYoqLyxBtHAPjD+vpL3uUxURZbGgwcy+HUo5DUFroC70dxu7AIo02asqDljSocckLZ9IlKImNTJ3HXmE1UtaRlCsTdytgg3rMHNmZQ8R9onUtFk5+hOvxNGwq3l5YANQwILVdzLFEDfufbxE+olA2a5YetruXXWRN1fPdQOLUMAfuLFDGdfqZ0dx+UseAF+iAXfnk2+pnK76vEORZOjuAiBZ8f2Y6q1Y5gHHzeAp0FNd+v7hxpr0/8ArzKaKPiZvU6NwNVMRtYIERSANdxK4qGabYtbj9UC9kRriJdccQPaJeEi1iOenEvQ9nHmCr7wN+Xn8wqfPIv3joF642lGAKWvUOJWPn5iFVazCHU3MXiCA3ML9wWBaiRqMHtVQOBpcVBAMITVNY+8YXQR8HIF+iUQWCI80ZMWL6hMAKswGG6uuLgqSKX+36mCsgZcxmhBQBTd/wDZdXVXhDiWTsPnT/iMnwVJ3mYwihONr8wFHHkWcjHHYvVGvWf9cXKGlDvmUQQb85/dRYJ8zqAYPUodGK45nFqI1yY4z94vDgK5OiutSlWUtIW3N6c6uvMZS2COJqrrL7IKLNNCSj4biU9IllRGpQ5YlpUe47GBmtSiHSUJlFlRS2SgIXDoH7RBUK115TtVRny6K6jugyJlcK8fEbMBKyJgDVbt9F6ItGRPPFfcGTHI8tvbCGFGqMUEh5wf2w9hXdMscaA9A/t8S4RHK2/1KOL+pfu//YhqLh/aAxoDjqGozDuqpiQlvMLpAPUHsqWxHe4XfBFZuZrEorO4HkmBliJ/7KN6uO938QWZxMsbGpzJWuVIxU8Mrrx/aJmQ3mREAs5vb5i3gifSXZuUcQDBUCt1U9oIVWFi5zqZh+pgVmxEEgXXDGIIGjo43RzHUxbYhZyvH51FhqU3nKy/mmXTehlswC3zFwq6sZkRZuosQthvQ/MQsXMaORiDzgLiApotVDhvmZkVDjAF69QIhLC1Q/6mMDYUEbw5/b9JQoRI3zmGisL6iPlB6gzW5SsRcmmsosvw+IO11EcBtO1bOql87DmD0nj7zHdzcOeTTnwepVl4pkb43x41CxGYL39as+jEElvCumsdlwWEI6YlGWHaws8w3MNsbmPpKSCsVc50M9YhrERtKuIiseuyMnY0xxbDyPEVK+OBObr8QEDHNoeYME6/nKvUM5jwZHhweWIi3WNfycvOpTgCilp8jMBLpNHwdHmYQ5Awf7uXZXkXmVHZf+wHZ5Xj1LOpnjUp1mGVpBmnMexDBhzM8s0SzxidmYrVwsLqe1RRYvBhl3H/AMJeKhUpuMuMRJz6lY1DqKcJcAodAVMviU1U7JjxCAsat8xjU+e2YMzFUqvDLqZEvbRh1OAth7IRSn1mMRQsLYs3+vmYZIojTeH9Q/uzidPnbRdMUssHcSxORlN7ZZZMtg6FBM1x9Y+S/wABE2uTz4htTZUe3/JTgK5HFVEQCQGI1oNa5qEXfCMhgyMeS+t1QMp/GH8v0jQpecrY1+Zei5NXo19qjXzK51FKhnMeA+I+m/RF6Ay29lvms6MsB7i0XwEKdweHR8Yitc7S8mNjHWN9xdtmuOQ02Uj77gPFqtArwEv7wYguBloqvguUbnbAK5WT4mccNrZn6kv6egIwK3iOO0c9QbK1sSC+K83D5EKNrcK6zOCAPuCoVXMUBYv08+4wGgFj49wUvCT9epj2DNoPb5RThDBM/wBTwlMq2XrzP7EeEN0q26aeF3s1BQwZLyupYX0bLQvRbrvwExMeXbLcsTNVO4Qyo3DRufCzZTAouZYLFEyxBqW8zKHOtRV2QyzHWNR7bqUcS8EcsQUYtivczyqAuVS2HSDi99SxqAAQS8oRyEosvn1Le7sRpzqs39dwllFQcPEEaGxIgvE8lkGKPdkujyemBVp/Dr8sCnzpr0v6QZQucdDB94NMpyutLLiBa4cMcFoh9hzAoN43hYyJWoLa4CYHY6ayO9so9NujA/M+qJLBAwxKsYw9mlbz/sTSWDyKHS50fWDGa9ChbdeVbgNYam99fZJYbbap4+PcMGjSNecP4ljivmB3MtRKN5WUNJt6uPWEHc8hjN5dzCFObcN/ej5mkII4oP8AqxUhGZAlQBhABsb0TAgqFBQFgY4gTjMtkwG8a/4lKkbWxeP41xDJhVkZDqICVwKBoPoRCt3UcLPpDBuCd1ClGz3A3u4mOC4DlKFcyvtETu5knnm3igkyAa6K9K3UYLIvmeb67WPXwwQ8Zfqd1LnLzZVUt/P+1GfXyubZh3eEZHs6hQdbH94FKAV1C2YYYlkoKSlYm0vsimBLqWy/gFO5lDLuX4qZ6hbcFNVFXEsWp4lAhsPhPCL0mXUtmGiF7hXcsyYgwyY5ZXK8uT+4waZI+i+pSTsvNjp/X/JSG3Hg8sNMpVVeT0xFhpnwJkMLmFzLtpj/AJiUqupfZG5RSwjmsXn6koEAcI6Qb+RLVbdCX/vE17lDwlxEXQyDWhxLk2cqqyXiClQvxss+Fx0wzbuXgUa+1vqFiJqqyEXrk5+kXDTy/UVm0caYaJA3GVgAnrMZGPzAA00cJxxFmMAf7/ahcM4vZe4rbwEemrl7qKZSW+pbm+w+GfNHwRuJ9RxRVVZC/MxasbJk83lt0ceIF7ZQPDuoatCCw7qIuCKt9f6vpAoY2mUlvWPGe4SNTYgqzn8v0gggWdjlNbzR8kXFlSDg2vrB8MInAUVOrmJwQKBYsYC4neZjSC3NVEDiVXmZFHzLNl6iYtMwuWGBEUJnmZFFBKeBxwPG/iAmTWGA1fcUK2AnXGK4XXljaQb5nvr1FaP1hu4UfxKiEzEzrHcKGGVjzFXDLaxqDZBrU5ivCB5lC6jbGpjCrMXpnv8AEDoiOILzn4iLzMEFLMjmKomSeELmHMBNTdSDce8sqHgMwvLwSgM14ufuxkjOcKce+K7IOOmsFVYs3a9b9TAhCFKBdC7bVcmK1NLkgwnDGulebwl2/wAa/iBaYlVoEtu6PuyoBEfo/wDICpZmAcP4+sviqswOR10eXmVwFr2ZPzM8EUmVoQ+cFfMKPRsQdJn2+0PzlOsB3mjjjuY69iYHhdB121vqYiPxVUUo5bKPuUkGTKnZ1m31TdnKLNcPbd9pcpBkHEK9nyc9welS4CjaGLtoI4tzLBaEYepQ1kvqa1hi0/mb4rHwdHy/iA4sK9tx9A15JbfvCTrg2F53XhBCjtINuV7w/wDrDeaoKTnUC96fI6jAsylNQOTL0yO/tD1S2g5/5r4l9cKRuuT8qmEcqOZNht+XMLo7lEscnzNsZgOkD5NLo9S9DF+vcoz+IFTxMnSJ9ILMYY5G8ouy50kqOLlWDYamEQt9KnNvNGXyvBLtnCfhP3LRiIRFEyBzN+4a1NmJdFcwzH6zLx6hSkoNxxlr+AJ1E4RLZhqaxAWzUuhmU03UomRnLNM1M9Rd3dQEyhFIxSiiFYAseDyX9RpolDIfhc3i3jM02TQhaOnVl264scnxmFhaI7l3aetfTcbVIH6N8OffMRgkqV3Z387mfkiBuPqUEd+SA3uYMS2NW/aocaK7x3HoBFcW1Q2usQUHxMeqFr7qHIlJREGMPJqXLjBZUso74PvHIUTRb/2V79QYDUGVVWkE+zM45lBlVb39VNSgylt+c+paeYLi48RToQbF4fweCV0U4D4zvGONxveS4VXmrouY3egshszR2X8zDDc3L8xLV7j3EDdK5mEdiNDXVgb3TU6DMYd6q/2aVvFQgubK7BW67diIGIUzWWVtuuIBHBYWIvkdQFACujQHMdLrSDBluMszeu2U3nEJuZhoxLDi8Z1Lg3KRndLTvfzBBoIlA7/gYSy4jQJKxpWuhbxcBmCNNBzs+8pyUc3lGj9fWZdWkzifiVQ6gc8RCpdrcWo8cTJhst1LsQwY69CF9HDAqLsTb5rDEazB+YK3NjGIkLOZYaiysE1vfuc5g1zE6RTmBXLiO4eYZVURrip7ZlqYqCjmYrMc4hMXWY8kw0TCpeGD7SsVyyxs+ky0oDK8RsCg4Wfh48ylYOoiDB4ahq0VpBXwiAizgALfb6jaFUGVbacVXOsTW5gFLpvBd1xriXIUj2NrGw7O8xPIrFE8jFeoiPWQ6QQbgV+pHCsT6QUMK0g9TjuI0OT2P/YMMheVU3DDOYOSm/3+JWKjsLWbPg/1wGkEukV6Od8S7NEoMZKWVdBBkSfK+e0LParu/U0+6XiThsw6oH5ioUNJplLE6+ZosMVUHVfMaPoVeAcf+34lkLiLVus4+LgmrUaYKrWNXBQDmXMRaajTzDllNGcZaPmWNQY28mF49Ctl6QSxEghTXYBh/wDDRRoC+Fjk4xlq4avGD5LMn3iALrlz5NnPEY8pbAhZh5+0si7K8kDbDTvAXjFenXzGLqGddkLoR57UBwErgwrbM+YANWv2iAxM6N8l36hQhccwUrx1LdxMKD1JfqJpiA0a31jEr/sSIK+JeleAOF58ygBNObJgRDzmIxtmBJ8xLi6jfLUsKdSvCEMYgKahIVjiYqDWbl/CAwXcV7CAi0YZbgwHs+ZYZZY61BrEW8wbxv8AhT2m3ie4nWJYpzFuAgtziAIeMEFt1O3RNojC0qN34mEIYorCX2zYefREKmyTF1X6PmYdPqjKNK8/MX8wKzKFActDB3bnjXn60BlchCqzhrnMoJgDzL5/H7jSsxBEbP379HcF1aqZsuMCjz9ZSW0LJ13UGZHzWl2QXScm4Bf7hp6EMZeY4ILAVq9W0xEhrsh46zVL2BrvgPvAnY1gV9L+8uEjaAErGeyfShKuWXPHiXf8nCB8j/zviALUtmRKBX6P1haOwCg0X9oDZFnQ/XMtbWsU8mv2yjp7ILpLDJ+stUOi8RyUzgW7yArcAk9UStaQyGDDrrcWe8TGlN3lteKoHzdcWgryhocnmLvOur9mmJ9tg0/i/FQWCooI4ZMrdNdptKsxTFkSji5n2IG6XHwD4Iprv5rcIr1DXaeJUIF2/Ec4HWU67vWf1MCg5LMq7X3DBe5vTuGthbZVnj/czM0wCRSjNnbB418OTmvf9QJSaMMyAKmkYbuiInFsfP0mR/BiZzKcTwwfmUHma1A84l0UfWLXuA1cxUKDXxM4rVys4luCoO58SgZ5gg4gw5MQpCEjEzBqgYU7Y1UunOovRD/Evzz/ABF1FI6sK1YQePMJUE7PnML2VHhfuNKCo3SbrGvzGsfAOB+oWnMm6PiFeBenPUw5VTbcqidZktc3+IesmtEGFLBO/Ut4jWWLGsYseCqrEM5/LLzcMZHzlVyvJ+IX9kfB69S0O++kxuYSME2qT5l4qpJZW8udTOqUVrj/ABArLNo5D/P2gU+jG4sgGAAakLxY0773idJAYHgdmNJNe4KW1czQkarzB6SnzM/WwlmV3+ftALFurBYGJbVpwKzeOt6Jal7WFZ4r66YeJ7TSkc/kiUyF4vqUroBoKOBvHWN57j2gQIFzbgz5O+oImXDDAAGINZVOYEcU3MQWVQ7ZSIwWKN+2HxUQkkZgc03ZjF2+oBWBuuAeY1LgcywXVZ+JQO2AtQ/gcfWOpRkunrdGoshjaHom6565iYMmUaC6x+IdJhUEeQ77rx58lMvl4WcjydNOOiAMyaKPW/8AX7iO4B3wO/pqVgA37IMeZyx7QBcSwy5mTiDcUHO4AcQFXf2mF5gUOYreoJZV2UI+IU3BE1KSzdxhTTLEZu6hjiFYnDHBAc5gWQB4m8xwhnEFF7YbbqporrvqUlFzeYe/MtmG2s0v4h3KuwLCveLuuffiWkyK4TH8YPqVLoUuXT1N8+EQIhAFq9HcqLyltAp3ej8RyOvReIH1XK27ms45cluz8krEhDVmmvPPerykolmnc1gdGMGPhxCLnYVg+OtZiBslB+SWSHGPPTOdvxCGcXDeLEblKiZfLNqdnWf/ACWXsG6B33cqBwrhwefz9ZhitFXR/QlN13ALU+8pHCnsafszUnAeaNZ8v7iPtSqMpsY2jFMLdmvz948+4FAWl9fU+8ykWxiy1fmviDA4hoyLTiwp9wPmJgwhwOULfPf7gTEfUY2jx/2HIy07G1+rKuxCFZhzFEGhVXvZo/3UC2dRJUZYuuV4+0LfUXwvGvn/ADNZQwKo18qC/NxljcIyM6OI6eXmOAONGKMV2v8AeQoX7CeXI1jLnuPtIJfcBQ+l66uK057lMWAJlYoeKgncLILOG8whWhi1goZ/1+INA0PwOaed7lOGCGhcr7j3JVFRopLF6mzOu5nuEdSoeqlIHcN+YGabm9ENZsm8LDWnHMXeMQZVuZXUStkOevUQrErJqAHJN+JpyepVSwmRG7ALmOUu8QZxE8wzWYjt0c3FWtgB2wY1syM3GqG2abXgejP0IEKOO1VtGfBheekkKk6B8WGPRUauCts92xLDRHwP7iWraLNIqowsUFo7FoLOLghWm8i5bGNqlUe/MBfMQW7v/wBmmJtXOGqx+/xBjGOWNWi/71mLAo6LQorQDHj/AJh4EHe+gctfT4j3GBHiMmWK0L+ZaA1WKpOK8SrszKcwkrLAcNU9mfxLEbpvd5IyCBFtb1UbNNiWPdf8jMsptt+T8ESCCxcAuBRqJ28q5gD8B9SLLbtX5jYIbXWPO3qMKGhnBywmaOHUQm4EDJ4iqOvmPwyyop7acYb83M0XUjV/bXxqaLij1OTUrHTmWgHENmfow7xb1EURgGc6a73/ANjgSSxuKFujYCMV0f3E4bj3AGz8AeTQHcv0JOrRKG1+nmFMug8oo3gC+AHgcvn1m6U0LcY40fT6ROCVcHctQCONVjH2hC5k5VBGK7fUGuy1szyF/wC6nOA1Vp79c/EfPQCrLyYmGBlPqIuWZQoLiNncaVmF3EpErMbLmCrLmGTG4jc28woJzKrcrmcxXmWzxGjuc5mvKOVbYF2ynf2hZqDnLAbMy0VqOFwOI+UsrO5ajxUYu3vqepgkviI8vuSOQ0c/WVzUdO+f6mBNXRMV940krLL2dPEUXMr2PR14/qICwjWh/pg2bgo8H95IClq0oz89S8qoabFIUVWEB0Zf3MoYKy6U1VYcztClPTDzzBcyllbrCLjlf0GX6a9onQ0PO37zAJIIPl3Kf5hbRen1L9LKvfxEuox0TANDaV8n7gKV5aKc/wDkF7oWsPyRqFK4xu/994YKI2TIHFerhCmRY9/xVKyIc16rfhW/mfFnAPltj5R2D8sQcJ6AS5hOBj3BgFlH12pB9iP3jtLKA8FSlMuHOOpRoxDfcvd6lPKNyAT6S15tayrdM8vwaiqvZAxWLEqoK3Ip5ReL/BKdgksbGg4PL4JSpECXS6FK4sxks3bFmnEUiuErWlaHiM/ht+ADrQDw1yZnLEExh+6/XmiVy7s0CsFcuYM7fG1zGxZVvHLX2itmmJ6CBQ3xTVg76+sIatlviNiWG+N/vVv04mVKGJne0OGPcpSpTv6wGmWc5l4zgmS1qIPP3i4uCJT9YmMRsXcH6xwm2I+ZdsWoZldQLnuo5epVyr1Ektl/CHbMIJmkMdw5MVGyYnUFGx09PcSgCGHvzCiAUQcrxBl6jZl9vibdDBn7j6xLUb2WeL/cZVVlKuLzr/svDZAcf/LRj2Q0AHJ6mKIqDBa1bxFWgAdHj6QZUCrsZhjRTTPY8S9FAAlJijj6x2hyt0E5Xn3o+JdGHRksQVZ8XANOrV2qe7vxFUs7C8fpmpiGdD6n5V4PEcn3LLqJRYOskbsjzrzGPF/fGb+CBFm8+PxuFru7EW+YY2AAB1LR4i36hvHxUP1B6WEdVjgn+YgseepUWp3FM508JdWVE1r6woyIP0oP2ZQlwqWBCgM99S4FQo5HS85dD4WGAAGpUVY9zcYIFbhjpK8XWwghNq0nuunLjSZHokgbkm3F5KG7p55i34qFCt07rXjys4RX0Ho5IfiLPDlHPpdxqlkT+zLEKfRDb8v4IDrYL20v61/7CGnhXLgS9OY0NUouQ50U/aWZsim/UpzMA6h8BBriGDcEIXmOD8ymKHj5gPmHHBFxEHj6xFN6g3tGzcCsnMRzzB/8g+JcCzES5SGcwxqYaqD3FxUO87nuVcBHDExcvFcxxpihuPxCqazKVwZgdD5gMhNiOkjxSzNZBa9m3FXddmM0QlZSqldy0YCoqxr/AGOpd9FSpHa+PP1mD1KrJecXjc5VaO//ACNa09dZjo2tmfUuD/EvujGMOv7bYumKwY9n9QjYrnRzFAezThiY1UBMFh/7LR8H9iLE6+sx0W0ppOE8QA67xLLDMIoY2AMEpWqA/E0IEFjMRjES9QSIXMz1A8FxpThMyhDaA6z3HJ3DAHXcBxNGe2K2X1e+7UHAe6ioSzLF1hcX31LwQtV/tan3kIYKc/2PrBVQtw18vT+ojCcShQ2AM+elXdywjKFH2CrDl5SG8e5xo6J2JhXY8RsB0O+AGr8+Zl6oWcjB7blUMsujkDzeb7jsRWuseDtyHObNTRIKVD8cYqZ4+U7XbKdEobqG6xUo2wMTbuAI27IFNBEvMuDuH0ijUzfmVR2ig5lHmX8yubj0g9TMcbggxHMoe4p/ApUHGGXjGYNE0zEQ4rW4LmbPcrDoKLmFQMHh9xyleJ/i4Usq2VZStWTBMEIfZXG/niCMF10tq0vry/8AJfiQUqQMNAjCfPaR4we72Q6zCyj+z517jLI5Mtfa8wXermEQEHfjfGLlAsDCjXY8L5P1KrdCtsPJjf8AUY0AyrMWkQcNhj+iEG5RV4aX9HHuLd4nSsRsgeCesoePUCxMIWGp9Ig1MCC1HE1puVUBFgYZxAzMIDeNR89QQWKcjCPY8S23lFLTy7Xy2w7Wrg5OKzEzUAbJsL9Jft9xAt5ERouyicEyw1PD75KhAgKCtEEgOMwxcxR3wwxdoAbHMsMVddV1mxUArdHbrKRAuc+8AK6AAOKmmMj9UPwgfSDxiJdrGq/uLC6lqZYeYpeIDE3cyYgy4HPmUMsd7jxOf5aPECUsqoFO455lHdx8RYHWYTXH3lXtxGq5j3DZaQJqK71Kxss6lFcm126lftmJXhvsk90KZxKOBsArL++sgKHEjnLdrlxjwErCOOToDnj/ADKXF+H2fs173Ks6zMPuVICvBMcw1DQ2YeR7jGgeNatP9zBCmbDfo8P1lbqqBR3r4/r4gV416sil4XgNvAy/bQFJnItrevHxKIg05mepRWZ+IvZkg1qXUyg2q4Kc9QUyQDlcyCorl+kxUKXcqyX1Eqs3E0wja7hXmAMkVaFmSnJx5ivssZomXNmOzrYy7KuA53b16+sAABVUEq0QpEGCGEF0UUAseeX/AHMssQLK2xYPB/vWHwNUBsM4FH9Md2hTMGaJ8aEP7r+J1DJlo7gW1MjniWJ/BZuX1HzKoOWBZJdW9QDvMd5zK4SGXM/EfGpTWP4dwKgYe4L1qVR3KfMdVFLASoYoLcz1iOeYHgjbEbZbbBNLgh+jiaGEHvO40Ghy7fMdGvYH9kcGLyrLovK1x14nBUCaaPLy+Hi72uBQGpH2soVvT29Wd/hqUQ7SJ+EoNqx5Io4gxcE19nh8MObAZfYG11MmYMWgyJrO5fFolwqw0tfJeXl+01z5h9UGtMwrpI5N/wAdEptKHCK1qHaOcyl7xOF4IF4HMoCoA2S9qzFUMYg9RI7bxKW61HAmmYMG5hT3WU6EwMQCuswxf8KRmFBYrofE4rEUQiwFY9/VmYazk6bzuMt9gJddK4Hdf8h2YdzujQ1C5DHmWrepdsqtkFeUXNRIvEQRi7Ook1B5ShmXcHJT7nM1Fp9w4CW3ljZiZlR8y85jqHbEq5VbsYcZmSUhCk8zSopmOa8RL7SoqZqqvUxidINRkoOAUzJJl7yJE7aa+t3gNPWWLhAEGYfj/eYEOLNDTEBWiq22df3CLC2rz7xN7hhSCby46gAYystZbYy7s9AD3QS8biKn7JX5WACoR5QHc77iLglijiOIHFEfUPEsuIItzM3zKcdS6HBBB7ZgVu4pQbziaKwROxiQBxeJhHwmROAgMwYJlvco5qFXTFkoLfRGw7mgtLkPFAZnNN0F/wCczPaiqGl5Fc8HmYA+vb3KuJVbUL+ILyNEV195obuEq3slYKi6epu2oESFcyvMFMtWDMAruUA8QY0wX+oY4jjX8DWIIkcNxdLmobzFuOcQM+Ils0wPlB0myo5St1LxVRNnMsviaQQdCLxup+oHuAyo6L6X9Sgd+U5f1EV5osGqW6hAb+YLl0Ehzd55bhSwNGkzRz3MlYacDs/c0uZ1Pcy6lVRUqsJhG1QPMWjcM5MpogjH8VQwy0NRzzO/MOp9yXnH1lVrMaG69xcWa6gohhqDZTzLpl3i5luVfMsFTJP4Xm2pYHmXlZM9qUQ66+v4YnYOqn0PpR94QQ2kULbs+DHMUYq0bf64qWBjMAlxKtMYhwcEr2P4zeWOVLhRFxFgCs8bi+amBnLiPaOCUrMXUS9N9wy9Rc4lkKY41FplW4hjcpzUd6P4HGcHcvdEMs8UOBFuLSvxH05mTeZ3DWZo7iD/ABF9Y7ef4RWvjO7ea6bzGwAA6Xvl+YNWClUbDz9vvH9LltovbCJDpXxx241MGIYtpZ1a/cdhu6hQWzfUAOMQG/xARuMAcSl5c4gOggJiXR+40NZZhmsQeYY8vcczHma5gupV3UOOpV4lQcJ9YjtG22ootMBtiypqJfaVShMLxEzFbyRzeJ0F0X5Trz5gBZYxHrpeuJRay3Itfb3OsgYbFcwoHcbZlnEsFz5/gSJXcXme4mjUSnuB3nxMoCPiOSVUCvERgN21KmMMC+ahPJHAhLvSsfCKNcyrBF51ZMPiLBPCLvuEdeYjiLXEHMW9SqLWG8rDDCIfMNBLHiOBm93LT5PxPCVKMU1dY+PrFiykCuOzH0PrKQenfSejD86qPcRhTLRr1xWohUG3OJbpUM6lNG4eWCKDFbxjzC3UoDNm9RHSXWzfU9ZivmuoWepWMSnEOEqWNMDd4jV2kLGX1GEC4i8VB4SXmWLbqVaYC65g6V8wTCFxjxDXEwLU0Y1p5IFAAoCV4i4vEc5hApuK9R6xNP1mUMZRNQxzHTuFNQHU8MrmHgiKFzI5l0IwnUBGriLVELj0lDuXiGM1Fp5/g+oeEXM06jG+IGL1HpN8wbEUM47icn3mMElInUcL0wL7nIhVRDGeGyMdjUGLWuau2BkK0pdfF1g8QkABijRBTEShmdEFAp5lt7hnM4BuaVAsxPW4l+HEq/Cpg5p4lWgs2Ew8ImY4q4WRoJiOBL7iVXUsGqxElWeY9XKxrEuwxaGtdMG8uDxLzBeRx1LtqZPiJRuZ8HjEaaCBZx5mq5liYcxxLtSzjDG4gqPtHJVzbUFBhfJYtNZ7ijrccYhVSwjWW4Wwzoj4I8UN5hZiPELROJ7cy6hwnNy0Lyj2+kuDOmI2vM1FNDxEuNRUVVzMxFxfEs0Ym9RG8/xQyl3MdQVhwKwBgK9TFgj3gYyQbNS6Mwb9xq8RxqZfEut5inH2lS+GIYYjsqXU28yxP+SztKXAMLOfibxHKJos09S4WMQqWyJLGBiNr3AreorbC4K4gqzDMArG4gqrgX4IhBNTjEw1MFQXTGzTEzbEALlWalcQMCLlIQ2wsKH9w1v6yypfiA1csIvW4l7/AIXaGU9jmaY+JXJnFVE2YYjbqEC1zK7IKM2wy9Rqri1oj5gYsYJFGuoYWnEyMz1BflDcOyX3MMV/Bh5hfDEfKDfRHBLuPJxKHGJVZdwOVTTiZ5gmdRQ0cRKyluZNWRBqC9XMiUy8wBy31ETMXiYQYVL8RWtmQxmaEdQzuBWYVEzUE2ag1ogiFjO5hxDMWJN+JkxL+0t7MTmrm/BBogF3Kzu4PEXKu4+ERxzDkjsq4m+JricY3KigVc7zmCO5YOY+JTliyfwA5ZY6YC3OCczqP8HE1emaE6/g6nDDaGiMNTkjt/Bz/GydTjOZwnKG5w/g8Tl6hKOMf4NU2epxj+U4+o7IRtNX3NWMEO02mhOUf4HCcoQ6j/BZpAyh/Icx0+pr/DsTQjv4hqfpNM2TT+BjT+BubfwNs0msP4YPynPxO/4P/9k=)

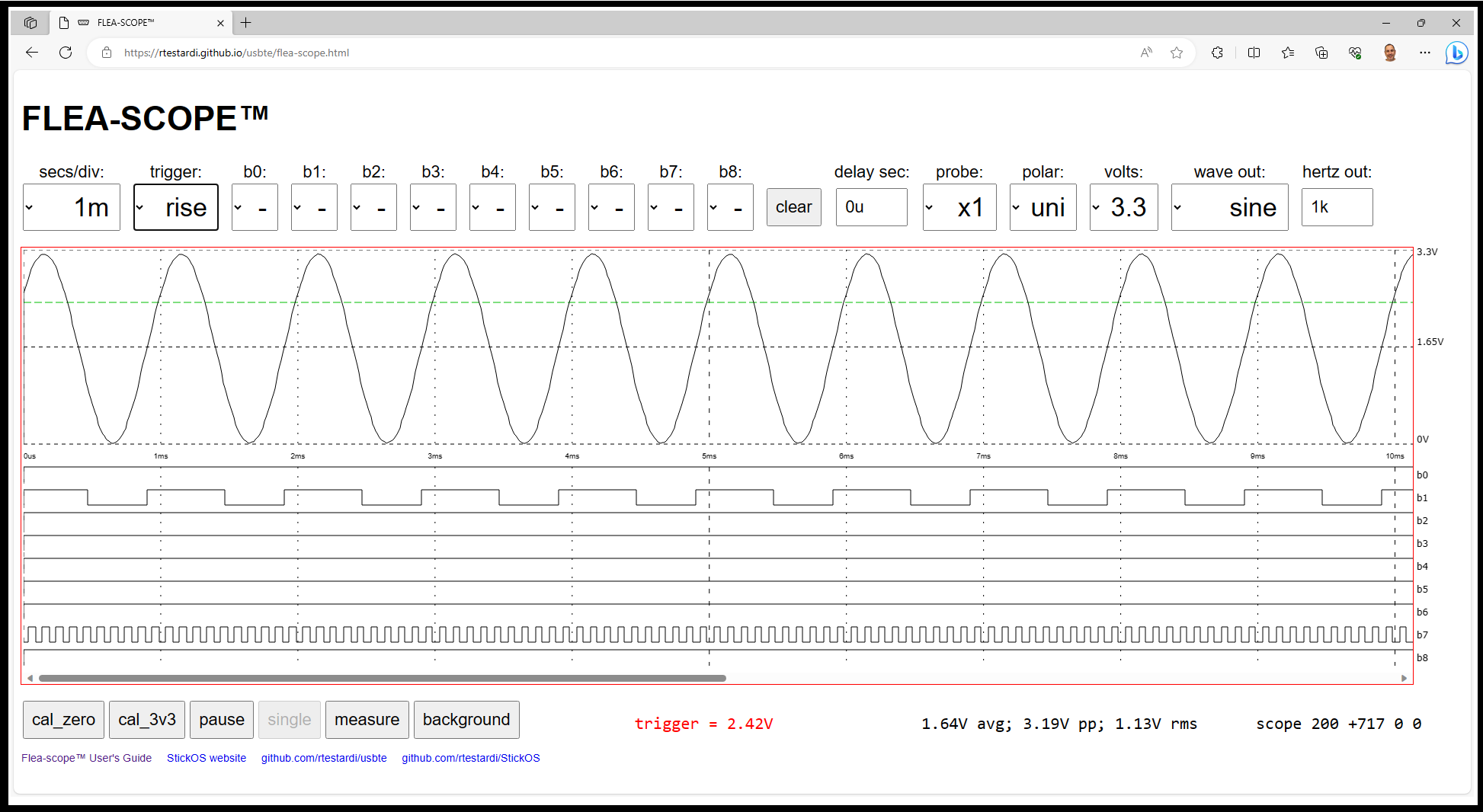
# using an oscilloscope to measure voltage changing with time

Y-axis shows voltage (in volts)

* you can change full scale of the graph using “volts:” selection

X-axis shows time since the start of trace (in seconds)

* you can change the time per horizontal division using “secs\div:” selection





# using a logic analyzer to monitor digital signals changing with time

Y-axis shows multiple digital signals

* displayed in binary (0 or 1)

X-axis shows time since the start of trace (in seconds)

* you can change the time per horizontal division using “secs\div:” selection

A screenshot of a computer

Description automatically generated

