Prova Finale (Progetto di Reti Logiche)

Prof. Gianluca Palermo – Anno 2019/2020

Michele Veroni (Codice Persona 10579458 – Matricola 889479)

Lorenzo Zane (Codice Persona 10577011 - Matricola 890375)

**Indice**

[1 Introduzione 2](#_Toc49782521)

[1.1 Scopo del progetto 2](#_Toc49782522)

[1.2 Interfaccia del componente 2](#_Toc49782523)

[1.3 Segnali interni 3](#_Toc49782524)

[1.4 Dati e descrizione memoria 4](#_Toc49782525)

[2 Design 4](#_Toc49782526)

[2.1 Stati della macchina 5](#_Toc49782527)

[2.2 IDLE state 5](#_Toc49782528)

[2.3 GET\_ADDRESS state 5](#_Toc49782529)

[2.4 CHECK\_WZ state 5](#_Toc49782530)

[2.5 WRITE\_OUT state 5](#_Toc49782531)

[2.6 DONE state 5](#_Toc49782532)

[2.7 Scelte progettuali 5](#_Toc49782533)

[3 Risultati 7](#_Toc49782534)

[3.1 Sintesi 7](#_Toc49782535)

[3.2 Test 7](#_Toc49782536)

[4 Conclusioni 9](#_Toc49782537)

[4.1 Risultati della sintesi 9](#_Toc49782538)

[4.2 Ottimizzazioni 9](#_Toc49782539)

# Introduzione

## Scopo del progetto

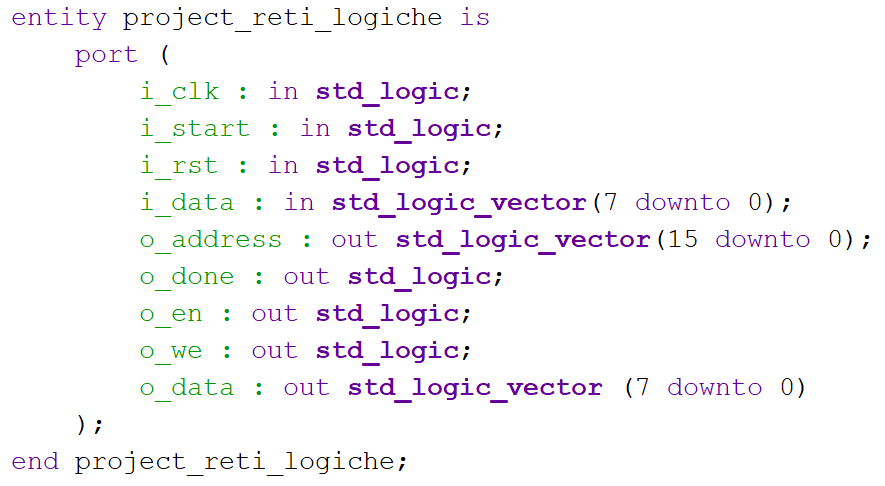
La specifica è ispirata al metodo di codifica a bassa dissipazione di potenza denominato “Working Zone”: lo scopo del progetto è implementare un componente hardware, descritto in VHDL, che, preso in ingresso un address (8 bit con indirizzi validi tra 0 e 127) ed un pool di 8 working zone definita come un intervallo di indirizzi di dimensione fissa che parte da un indirizzo base (anch’esso ad 8 bit), calcola se l’address appartiene ad una working zone.

Nella versione da implementare, il numero di bit da considerare per l’indirizzo da codificare è 7 e la dimensione delle working zone è 4 indirizzi incluso quello base.

Se durante l’esecuzione non venisse trovata nessuna working zone compatibile con l’address fornito allora sarebbe modificato e ritrasmesso semplicemente concatenando davanti uno 0. Invece, nel caso si fosse trovata una compatibilità si andrà a tradurre l’indirizzo attraverso un offset rispetto alla working zone codificato in one-hot (cioè il valore che vogliamo rappresentare è equivalente all’unico bit a 1 nella codifica). Successivamente trasmesso concatenandolo con un 1 in testa.

## Interfaccia del componente

Il componente da descrivere deve avere la seguente interfaccia.



In particolare:

* *i\_clock* è il segnale di CLOCK in ingresso generato dal test bench;
* *i\_start* è il segnale di START generato dal test bench;
* *i\_rst* è il segnale di RESET che inizializza la macchina pronta per ricevere il primo segnale di START;
* *i\_data* è il segnale (vettore) che arriva dalla memoria in seguito ad una richiesta di lettura;
* *o\_address* è il segnale (vettore) di uscita che manda l’indirizzo alla memoria;
* *o\_done* è il segnale di uscita che comunica la fine dell’elaborazione e il dato di uscita scritto in memoria;
* *o\_en* è il segnale di ENABLE da dover mandare alla memoria per poter comunicare (sia in lettura che in scrittura);
* *o\_we* è il segnale di WRITE ENABLE da dover mandare alla memoria (=1) per poter scriverci. Per leggere da memoria esso deve essere 0;
* *o\_data* è il segnale (vettore) di uscita dal componente verso la memoria.

## Segnali interni

Abbiamo definito i seguenti segnali per poter implementare correttamente il componente:

![Immagine che contiene testo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1pY2hlbGUAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzYwAACSkgACAAAAAzYwAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIwOjA4OjMxIDE1OjQxOjA4ADIwMjA6MDg6MzEgMTU6NDE6MDgAAABNAGkAYwBoAGUAbABlAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjAtMDgtMzFUMTU6NDE6MDguNjAwPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPk1pY2hlbGU8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgCVAOFAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKKACiiigAooooAKKKKACiuf1qaL+2oItXLR6V5JbcciJ5d33ZCOMAcgHg/hS22h6Pcanaalo72yRW5YtHaY8uRiuFJCnGRk84zzQgN+iud197+XWNLtILa3dPtHnoXuWUtsQnDAIcDJHOT2rXtJNReQi+tbWFMcNDctISfoY1/nQBboqpeXF5FIkdlY/aCwyZHmEca+xPLZ+imorLUZpb+WxvbdILmONZcRSmRGRiQOSqnOVPGKANCiud197+XWNLtILa3dPtHnoXuWUtsQnDAIcDJHOT2rXtJNReQi+tbWFMcNDctISfoY1/nQBborOm1OV72S0022FzNCAZXkk8uOMkZClsE7sc4APHXHFLb6hOL6Oz1G3jt5pUZ4jFMZEcLjIyVUgjIPT8aANCiiigAornJvEt/BDqU76XCYdOk2yut2fnGATtynJAI4OPqauW+tzSana21zp7W0d4jvAzSZf5QCd6Y+Xg+p98Ubhsa9FVLy4vIpEjsrH7QWGTI8wjjX2J5bP0U1FZajNLfy2N7bpBcxxrLiKUyIyMSByVU5yp4xQBoUVSub9kuDa2UH2m5ChmUvsSMHoWbBxn0AJ9sVS/tjUIdYtLC90uNPtRbbNDdb0AVSTnKA56cY79aANI6hZLfCza7gF0wyIDKN54z93OelWK5vVbtz400+CCFp5Le2lmWNTgbmIQFj/AAgDdz+QNadlqU0uoS2F9bLb3Mcayr5cpkR0JIyGKqcgjBBFC1QPQ0ar2N/balaLdWUnmwsSFfaRnBwevuKr6td3dlaSTwWtvPDFEzy+dcNGQAM4ACNnj6VPpwQabbeVbJaqYlYQIABHkZ2jAHT6UAWaKxL7Xrm015dMi037S8sPmRNHN7gfOCuFHXnJ6dOcVZs9Tnk1OTT7+1W3uFiEymKXzEdM46lVIIPbFG4bGlRWdNqcr3slpptsLmaEAyvJJ5ccZIyFLYJ3Y5wAeOuOKW31CcX0dnqNvHbzSozxGKYyI4XGRkqpBGQen40AaFFFFABRVC81J4r5bGytxc3bR+aVaTYiJnGWbBPJ4GAelQWuq3ra5/Zt9YRQsbcziWG4Mi43Bccopzyf89DcDWqvY39tqVot1ZSebCxIV9pGcHB6+4qvq13d2VpJPBa288MUTPL51w0ZAAzgAI2ePpU+nBBptt5VslqpiVhAgAEeRnaMAdPpQBZorPn1KVrx7TTbZbqaPHms8nlxx55ALYJ3Y5wAffGRVWDWb+fVjp/9mRxywosk7SXPyhScAoQh3dD129KANqisS+165tNeXTItN+0vLD5kTRze4HzgrhR15yenTnFWbPU55NTk0+/tVt7hYhMpil8xHTOOpVSCD2xRuGxpUVUvLi8ikSOysftBYZMjzCONfYnls/RTUVlqM0t/LY3tukFzHGsuIpTIjIxIHJVTnKnjFAFm7vrSwjV766htkY4DTSBAT6ZNPt7mC7gWe0mjnibO2SJwynnHBFJdTi2s5p2+7FGzn8BmqXh2FoPDdgsn32hWR/8Aeb5j+pNAGlRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBSuNF0u7naa702znlb70ksCsx7dSKW10fTbKbzbLTrS3kxjfFAqNj0yBVyigClcaLpd3O013ptnPK33pJYFZj26kUtro+m2U3m2WnWlvJjG+KBUbHpkCrlFABRRRQBz+m+LbKf7UNSuIbIx3EiRecfLEkYYgMC33uhzjvUmlol34iu9UtIGitXgWHzCmz7QwJO/HUgAgA98nsK3KKAZhahd29p4stZtRnjtoI7OQRyTOEVnZ1yATxnC9PetO11K0vpCtnMJwBu3xgsn/fY+XPtnNWqKOlgOVh1GxvfMk1rVZYLjzXRdPhuHheIBiANqEOxIAOeevAqTwpPaXN/qssEkgfzViEFzO0kyIgxlgzFgCzNwa6aihAzC1C7t7TxZazajPHbQR2cgjkmcIrOzrkAnjOF6e9adrqVpfSFbOYTgDdvjBZP++x8ufbOatUUdLAcpbwadZT3qa5ez2U7XUkgZ7+WCOVWOVK4cKeCAccjHNaGm22lT6gtxZfa7loFOy4luJpYxu4IUuxBP0zW3RQtAeoUyeeK2haa5lSGJBlnkYKq/Umn0UAcSb60uPB5mNzCEv8AUx5zmQYQNNnDHt8gHWtozwy+OUjaVN8NgTGhYZYu/JA78IPzrcoo2/rysH9fjc5WHUbG98yTWtVlguPNdF0+G4eF4gGIA2oQ7EgA5568CpPCk9pc3+qywSSB/NWIQXM7STIiDGWDMWALM3BrpqKEDMCyvrXSb7Uk1e5itJJroyxvcOEEiFVC7WPBxjGO2K0LXV7e8lk+zrI1vEm5rpl2xH2BP3uOcjj3q/RQBzuh39nf+ItZuoLqCUgxxJslVv3aLktx23OeenFLpGo2WpeK9UktruCYpFFFH5cqtuUZZiMHkZcDPqK6GigDmfE2uaVNok9pFqlm0kzpCyrcISoZwGJ54AGc1uWupWF7HI1le21wkQ+cxSqwT64PHSrVFHQDntGv7LUfFGqz213BOypFFH5cgbKKMkjHbc+M+opdL1C01HxhqT29zDKYbeKFBHIGyMszEY7ZYD610FFAHKW8GnWU96muXs9lO11JIGe/lgjlVjlSuHCnggHHIxzWhpttpU+oLcWX2u5aBTsuJbiaWMbuCFLsQT9M1t0ULQHqFFFFAHMtq+g6leznU5IrK4s5nhilkuDC7qDglWBU4zkYBPSrmhvM95eeRLPNpgCfZ3uCWYtzu2s3zMv3eTnnODW1RQDOZ8Ta5pU2iT2kWqWbSTOkLKtwhKhnAYnngAZzW7Z6jZX4b7BeW9yI8BvIlV9uemcHjpVmigDntL1S00s3tpq11FaXIupZAJnC+ajMSrLn73HHHTGKk0S7F9qmr37K0USyJAhkBU7UXdkg8jO8nntV+4l1YTMtpaWbRfwyS3Tq31KiM/8AoX5U/TrAWFu6tIZZZpGlmkxjc7deOw6AD0AoQGTo1/Zaj4o1We2u4J2VIoo/LkDZRRkkY7bnxn1FLpeoWmo+MNSe3uYZTDbxQoI5A2RlmYjHbLAfWugooA5WHUbG98yTWtVlguPNdF0+G4eF4gGIA2oQ7EgA5568CpPCk9pc3+qywSSB/NWIQXM7STIiDGWDMWALM3BrpqKEDOb8S69pbaHd2sOqWZmlxAUW4QkbmCtkZ4wCc/Stqx1CwvVKadeW9wIgAwglV9o7ZweOlWqKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKytauNagutLXRLSG4hku1S+aUgGKDByy/MOc49fpWrTaskxtWCiiikIKKKKACiiigAorn9V13VtJ1O0SbS7N7C6vI7VJ0vn80b+jGPysfhvroKpxaSb6jaa3CiiipEFFFFABRXPah4rez1C2t4tIvZIpbyO1e6lUQxqWbGV3fM34DB9a6GpjOM9YkKcW2l0CiiiqLCisTUtY1HTL62WXT7V7O5u47ZZVvG8wbzjcU8vH4bq26mMlK9un9fqSppycVugoooqigooooAKKD0461kaNrFzqGoajZX1nFbTWDoreTcGVX3LuByUUj8qlySdiXJJpPqa9FFFUUFFFFABRRRQAUUUUAFFYsnivT4vGsPhdhN9vmtDdqwQeXtBIwTnOeCemOOtbVU4uNr9RtNbhRUdw8kdrK9vF50qoSkW4LvbHAyemfWuQ8E+PLvxVresaVqWhf2Rd6SUWVPtgnyzbuMhQONvYnrVRpynFyXTcag3Fy6I7OiiisyQorzzXPiNr/hzVrWDVvBnkWN5fLZ295/asbb8tgNsVSRxzg/TNeh1rOlOCUpbPzT/ACLnCUNwooorIgKKKKACiue8SeI9R0TVtGtNP8P3Wqw6hceVcXEBbbZruUb2wjcYYnkj7p59OhqnBqKk9mU4tJN9QoooqSQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA4Wfedev/APhKT4gH+kH7ANLF39nEGBtP+jfxZzu8zv04xW94ViRNPuZIdam1iGa6d45J2y0AwF8o+hUqeCAck5Gck52jWfjPRrKSC4fTNY3XEskbXF5NE8SM7FVL+W+/AI7LjpyADWl4d0S40ybUr7UJo3vdTuBPMkAIiiwgRVXPJ+VRljjJ7DpXXUa5Wr/16dO9/wDM3qNWav8A1+hmeKLFbHUtJ1C0u9QjnuNWt45VGoTmJkYkFfKL7MHHTbXVXE621rLO/wB2JC5+gGa5XXbPxXqzWax6Zo8aWd9HdKzapKTIEJ+Uj7Pxn6nHvW/p0mqXEcq63Y2Vt0CLbXbXAcc5zuiTHb1z7VnNP2au9vP0Jl0b/PzZgaJpE/iLQ7TWdZ1HUY7y+iW4SOzvpII7ZW+ZECIwV8AgEuGyc9uKreAIb+a/8SPrmoXN7d22pvZq5uJBH5QjjKkRbtiMc5JUDBJxxV+x03xD4f09NK0ZdOvLKEbLWa8uJI5II/4UKKjCTaOAdyZAAPPNUfh5aXNlD4oD3H26Ztambz3IRZn8uMN0ztAcMuOcYxzit27xqNPTp96+4t35Hr1/zKvhPRbjVZtcTU9X1SWxs9Vnt7OBNRnR0VcctKHDt1wAWwMZ6mtzwbe3M0Wr6fd3El0dK1F7SKeU5kkj2I67j3ID7c99oJ5zTfCWma3pUmqDVrbT0S8vJbxGtrx5SrOR8hDRLwMfez+FJ4V0nWdOvdbk1eGxij1K8N2htLt5WQlETad0a/3M59+nelUlzcyb6K3rp/wQm0+b10KGoXGg3Wo3QuNY8RXzrIyFdLN20ds3dM2qhcj0ck+taXgTU7jVPDbNd3El01vd3Fqs80eySVI5GVWdcDDbQM8DntVfQ9L8S+HtHg0W0i0me2tgUivpJ5Fk25JDNCEIZuecSDJ54qbwbpGtaFDeWertaXMUl1PcpeRTN5kpkkLfNFsCp17MaU+XkcU79tf06egqluWyfX8Nf+AO8Z/c0L/sNWv8zXSVyOu2fivVms1j0zR40s76O6Vm1SUmQIT8pH2fjP1OPeug02XVZVk/tiys7Ugjyxa3jz7vXO6JMdvX8KxlG1NfPqvIiS0X9dWXqKKKxMzkbuyvI/G8VppeoXNvDdWUstwZbmSbb+8TmNXJVW5wOMAE8Vu2Gk/2ddySQ3t5LDIgBguJ2mAbP3gzkkccYBx7VlyWviM+JE1RbDSysdq9sIzqMgzudW3Z8jj7vT361vWT3j2+dQgggmyfkgmMq4/3iqn9K56MY2211793/VjmhGPtJaddN+y/W/qYvjD/AFGj/wDYXtf/AEOuhrmtestf1SS2S3stNWK1vY7lHkvpA0gRsgFRCdpP1OPetuxkv5I2Op21tbuD8ot7hpgR7komPyNVTfvS83+iRal+9fouj7stUUUVsbGB4s/1ekf9ha2/9CrddxHGzt0UEmub1m08RambVUsNLjW1vI7kE6hIS4Q5xjyOM/jj3rasZNRlWQaraWtv02C3uWm3eud0aY7etYQbfNbq7rR9kv0MIyXtm7PZdH0bMbRrY+JdIg1bU7i8U3Y82KG2vJYEhjP3V/dsu44wSTnnOMDirWlXk8GvXuiXMrzrBFHcW8znLmNiwKse5BXg9SCM88llpp+raFB9i0iKzvLFWJhW6uHheFSc7MhH3AE8dCBgc9ataZpMlvc3d/fSrLf3gVZGjGFjRQdqJnnAyTk9SSeOACKd1yr1+78Xfr666kQjL3U/i6v+vwXTtoZF7Po899cCfU9bu3VypXTzclID/czbqBkejZPrVnwzq0kvhi4ubyaS5FnNPGJZE2vIkbHBYYHzYAzwKbpOna7oumxaVax6bNBDlY7t5nV8Ek5aIIQTzz84z7VJ4b0rU9Mgu7PVvstzDNPLN9pSQ75C7Zw0ewBeCejGso899NLp9Oulr/jqTDm9opNeuj/Pr6/kM0vTX1vS7fVNTvr4T3cazIltdyQxwKwyqhUIDYBHLZyfbiq3hKK6g8SeJYr6f7RIk8IEpUAuvlDaSBxnGM4xV61s9b0e2Ww01LG8tIhtge5neKSJOykBGD46ZyuQPxqDw9ouraTruqXF9Nb3cOoOkrTK7K6sFxtEe3G30+bOAOtXZe0Tin1/r/gkqLThdO6er+TXz1+7yOlooorpO45bxloXiLWZ9Obw7rX9mpBIWuF3sm8cYPyj5sYPyng5rqR055rlvGWheItZn05vDutf2akEha4Xeybxxg/KPmxg/KeDmupHTnmsqas5aPf9OhzwX76bs+mvR+i/MKKKRgSpCnBI4OOlanQfP+s+MLmLxjqdt8QNa8VaIY7l1sI9HKww+SDwx7vnjnB+vavQ/hReTX+l6pcyeKR4ihe7xbyNvEkKBQAHVgCpOM4HB5OTk1T0rw/8UdF0n7INa0HWTI7M/wDawncpkngOOWGMHBHGSBwBWv4A8CN4Rk1O+vLmCbUNVkWSdLSHyoIsZwqL6fMeT/8Ar9evUoui4pq+lrdfwuvvO6vKDi0vw/4bQ8/vfBefjta6T/wkviH99pjT/bPt/wDpCfM3yK+3hOOmK9LtNNj8A+HNVv59X1nWY4YWuW/tK7891CKTtQ4GM1n+KvB+tXHjKy8WeEryxj1O3tzayW+oqxhkjJJzlPmB+Y/Xjp3taXo3i6+nuP8AhNNV0yWwuLd4JNM0+1PltuGCfMf5+mRjpzWVWr7WnG8lZLVdb3fkTUqKdnJ6aXXXzOY8M6D4h8f6EviXWvFur6ZJe7ns7TSpvJhgTJC7hj5+nfnHfmqXwcg1C1+IPja31m5+1X0UsSTT4A80hnG7A6ZGDW1pfhTx94QszpHhbV9FvdJR2NudWjlE1upOdo8vhsZ6n8gOKreCPAfjPwn4zv8AUbrUtI1C01SUPezP5iztjccooAVTlumSMVtKpBxqJSVmtF815dvvZUpJ05rmWtrfeeo0UU19/lt5e3fg7d3TPbNeOcJ5p8aP+Pfwp/2HYP5GvRr68j0/Trm8nz5VvE0r4HOFBJ/lXl/ijwl8S/Fi6euoS+FIhp92t3F5DXI3OvQNkHjntj612mgReLbgXcPjZdCe2kj2xrpnnZbOQwfzO2PSu6rGPsIrmTav172Oqaioxu723+843wtpev8AxH0j/hJNa8UarpMN1IxsrHSJxCsSKxX5zg7ySD1/rgT+H/Geq+H9Q8UaB4qn/tSbQLQ30F2qbHuIdu7a2OM8qM+564zUumeDPGngsTWHgnVdJudHkkMkVvrCS77XJ5ClPvD64+nJJ1PCvw9XS/7WvfEl5/bOq62hjvpimxPLIwY1H93t24A4GK2qVKTUtU4/ZSWq/pb66lylDXms1fS3a/8Aloc94Z8PeI/Hfh2PxLrHjDVtNub4GS1ttMm8qCBckLuT+Ppnkg44Jql8H4dc1XxHrd14k8Ratc3Wk3ZgNt9sJtnY7w2UPGARxjAHpWxp/hDx54RsZNH8J63pE2j7mMEmqRv59qCckLtG1sEk88ewrM+BNpPBb+K3W6W+B1DykvCSVuHUNl885zuB6nrW0pp0qrg1bS2myv6dvvKk705ardfdqN+Iek3/AIV1TRdS07xT4ic6hrMcUttNqLGFUYliqqAMDjGCTxXrlxMttbSzyZ2RIXbHoBmvLPFHhL4l+LF09dQl8KRDT7tbuLyGuRudegbIPHPbH1rtvDqeL5HuU8ZDQzCyAQjS/OyTzu3eZ2x6VyV0pUY+8m1f9LGVWzUW2nbf7ziPCtlrvxPsJvEWreJtV0iwmmdLCx0ecQbEU4y7YJY5z19M9CANzwboXjDRvGmqLr+r3GqaMtskdlPPIuXOc8oDkMMkFj97j8KmneDPGPgsT2fgbU9JuNJllMsVprCS5ts9Qrx8sPr/ADyTueG9F8Vx65Lq/izXIJi0Hkx6bp6MttHznd83LN2yRnnr2rSrUjaXI1ytaK2v5b+Y6krqVmrdPv8A6uZnxS8KeMvFEGlL4H8S/wBhtbTs91++ki81TjHKAk4wflPBzz0rvIwyxqsjb2AAZsY3H1xXluteE73xt8erO71aylTw/wCGLVJIWmiIju7l/m+Unhgvy5IzgoAeteqV5i+H7zkl8Vu3/DhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZWoeHLHU7pp7mbUlZgFK2+qXMCY/wByOQL+lXrKyttNsorSwgSC3iGEjjGAKnoqnKTVm9BuTejCiiipEFFFFABRRRQAUUUUAFFFFABUN2ty9sy2MsUM/G15ojIo+qhlJ/MVNRSaurAY/wBm8Sf9BbSv/BXJ/wDJFS20GurcIbvUdOlhB+dItPdGI9mMzAfka06KlQSd/wBWZ+zj5/e/8woooqzQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArn/GVn4nvdFSPwVqNrp1+JgWlukDKY8HIGVbBzjt2roKKqMuWSkVGXK7nk3/CPfG3/ocNF/78r/8AI9XtF0P4uwa3Zy614p0i409JlNzFHCu548/MBiFeSPcV6XRXU8XJq3JH/wABRq67atyr7kFFFFcZgFFFFAHJaz8LvB/iDV59T1fR/tF5OQZJftUybsAAcK4A4A7V0emaXY6Np0VhpVrFaWsIwkUS4A9/cnqT1NWqK0lVqSioyk2l0uXKcpK0ncKKKKzICiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAx7vxTpNnqElk8txPcxY82O0s5rnysjI3+WjBODn5scc1a0nWtP1yCabSrlbiOGYwSMqkbXABK8gcjI/l2rn9HtJp3vL/wdrlqLC8vJZZ4ruweYrOG2ybSJIyBlehB9QcYrQ8Naml5c6tZyWkFtfWN3su2th+7ndkVhID1yVK5ByQRjJwCeiVOKi7brf8A4a36msoxSdun9dij4in0HUtd0i31STU7e4sdRjktmWxmWGSbBCqZTGUIOezD611lc34z+5oX/Yatf5mt+6Eps5hbY87y28vP97HH61E/4cX6/oKWvKvL9WZV34t0ezupbeSeeRoDtma3s5pkhPo7opVD67iMd6l03xNpWsXdzb6ZcSXRtf8AWyR28hizgNgSbdjHDKcAk4NUvAH2f/hAdH+y/wDPsvnbvved/wAtd3+15m/Pvmsj4Z/YN3iv+yNn2T+35tnl/dz5ce7HtuzjHFaulBc61vH/ADsU4x5W9dGbEXjrQZ1P2ee7mkV2R7eLTrh5oyvB3RCPeoycZIAzxWxp2o2mrWEd7p06z28mdrr6g4IIPIIIIIPIIxXNeAraGKfxPcRxKs02u3HmOBywXAAJ9Bk/mfWneDHCah4tBOETW5CB2GYYif1JP40qlOC5uW+iT/L/ADCUIq/L0Zo3Xi/RrS5mgM1xcyQEiYWVnNciIjqGMSMFI9DitOxv7XU7GG90+4jubaZd0csbZVhXO6TqfiLxNpkWraZPpmm2NyC9vHcWklzI0eflZissYUkc7QDjPU0z4byeZ4dvW82GYHVr0iS3GI2/fscqMnCnqOT9aJUoqD7rf+rfqKUEo3Xe35/5CeKLFbHUtJ1C0u9QjnuNWt45VGoTmJkYkFfKL7MHHTbXXVzfjP7mhf8AYatf5mukrOTbpxv5/oTN3t6fqwooorIgyv8AhJNLW6nt5p5LeSCNpXNzbyQrsVgpYM6gMMkdCetTWGtWOpTyQWskgmjUM0U0LxPtPRgrgEr7jisq8s7e7+I1g1zEshg06WSPd0VvMQA49eTXReWnmeZtXfjbuxzj0zWVNzkru3X8G0YxdRya0sn+if6mDDo97qk91c65c3luDKyW1ra3bQrFGDhWJjYbmb73JIGQMDFSeGL64uY9QtbqY3R0+8a2S5IAMqhVPOONw3bTjuKi1DUrrV76XR9AlMflnbfagoyLf/YTsZD+S9TzgVsadp9tpVhFZ2MflwxDAGcknqST3JPJPc1FNLmvHa1vV9/+D56ERj7/ALvTd9/L5fha3cs0UUV0HScx4jtBZ3mm31tc3sc02pwRyKL2by2Utgjy92zB9MV09YHiz/V6R/2Frb/0Kt2Td5T+X9/adufWsYWip2Wz/wDbYmMUlWaXZfnIoXWvWFpcPAxuJpYyBItraSz+WSMgN5attOOcHFW7S8t7+3E9pKssZJGR2I4II6gg9QeRWL4HKnwfZ5JM43fat33vO3HzN3fO7NN058eOdba3P+irBB5+PuifDZ/HZsz/AMBoU2rc3X/K/wDXyJjUk1GXR9Ov9dy7ceJdLtp5YTLNO8JKyi1tZZ/LI6hjGrBT7Gr9neW+oWcd1ZTJPBKMpIhyGFYenX+ua9Yx6jYTWFjaTZaFJ7Z55GTOAzESIFJ645x61W8JvNJ4X1JrWSGWY3l35bw/cZt7YK8njPualVXd3XRv7refmEakpTXZ7f1f9DXufEemW9xLA0k8rxHbKbe1lmWI+jMikKfqRWX4TnSTWtcjtL2a7so5IDbmS6ecANGCcMzE4z71f8I+V/wiOm+T18hfN9fN/wCWmf8Aa37s++ay/CP2P/hKvFf9n7fL+2R7tnTf5fz/APj2fxpu/tI38zPmlJ05u2r/APbWzraKKK3OwytZ8TaP4fktk1i+S1a6bbEGVjuP4A4HI5PFavWuW8Zf8If5+nf8Jh5PmeYfsm/fnPGc7f4emd3FdSOnHSs4Sbcr236fr5mMZSdWUW1ZW9fn+gUUUEgAknAHUmtDY5bWviX4Q8PaibHVtchiulOHjRHlKH0bYp2n2OK1NC8TaN4mhnl0K/jvY7dgkjRg4UlQwHI54P55HUGvJtD0LxEdQ1bV/hR4q0m+029u5JZ4buEiQOSTsOUJxzwcrnriuh+D2qpdS+IrCfRbTTNStbwPevYuWhmdsjj5mCkbTwDjngDmvSqYWnGk5ReqS/TdWT/FnXVowjFuPT+tuhn3Xxp0qL4mQwrrSjw2tkyzn7G+Rcbj/sb+gA445r0Lw34w0LxfDPL4dvvtiW7BZT5Lx7SeR99Rnp2rjL9lj/aW0zzGC79FYLuONx3PwK7HxJqoXRtVsdIvoP7bFjNJb2ySr524IcEJnPXHb0qK8aXLBQi02u/m99AqRg5KMVa6X9bGb4g+JHg7SbmfSdU8QLbXRUxv9nV3aInj7yKQrD36Vyvwj1Ke58ZeK7NNfv8AW9OtTCLSa8uzPlSX5B6c+wHStP4MxaI3wyhe0+zyzy7/AO02bBYyZORJntt6Z4xz3rC+DSabH8QfG6aGUOnidPs5jIK7d8n3cfw+ntit/Z06cK1NJ3S6+q8tPLXYpqKpVEk9Gt/X8D2OiiivJOI8f+Iek3/hXVNF1LTvFPiJzqGsxxS202osYVRiWKqoAwOMYJPFewV5l8aP+Pfwp/2HYP5GvQ9UN0uj3h08ZuxA5gB7vtO39cV2VpOVCm35/odNS81C/X/NmFrfxI8I+Hb82Wr63BDcqcNEiPKUPo2wHb+OK3NM1aw1qwS90m8hvLZ+FlhcMM9x7H2rz34HHSG8DyGHYdXM0n9q+b/ri+44355xjp2znvmsLw80v/CX/ERPAXOm/YSYPsw/di82ceXjjO7fjHt2xWk8NBOcFe8er2f+Xlq7jdGLcktLPr62+Xf0O/1X4n+DdF1RtP1HXYY7pG2uiRvIEPozKpAP1PFO0n4leEtd1xdI0nWFur5iwWNIJNrbQScOV2kYB5zz2rnvg9/wjv8AwqmPyvsv3X/tXztud2TnzM9tvTPGKyfgILITeLBpJJsft6/Zic5Mfz7evPTHWrlh6UY1NHeHpZ627fPzCVOChJpO6dv6/wAvxL3ibxp4c1jxdo9tY+ObrSp9Nv8AZcWUFpcbbxt6jy2IwuMqRk5HzH8fUq8y+NH/AB7+FP8AsOwfyNekXRlFnMbb/XeW3l5H8WOP1rnrKPsYOPn28vJE1EmocvX/ADfkjnte+I3hLwzemz1nWoYLkfeiRHlZP94IDt/HFW9E8ZeHvEl09toeqQ3s0cKzOsWflQnAzkdc9R1HGRyK4n4FLpzeFbuc7Dr0l3L/AGmZP9fu3HAbPIGOfTO7vmt7RdJ8IaR8StTbR7lE1u9tg9xYxEeXGgIBYBVwrE4JBOe+OaupRpU5Sp63S36fdbbzuFSEI80Ve6/z/A1PFPjjw54KjtH8T6pHYC8cxwbkdy5GM8KDgDIyTwM1vKwdQyEMpGQQcgivNviZdeCdR8U+G/DPi7w/da7qN7Kz2Mdtx5PIBZz5ifKcZI5GEORxXpKqEUKgCqBgADAArhWsbnO7J2FooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDnofAugWwf7DbXFkZJGkkazvp4GkZiSSxRwW5J65x0HFa+naZZ6RZi106BYItxcgZJZiclmJ5Yk9Sck1aoq5VJyVm2U5Sluzn7rwRo166tdPqkpWQSoG1m7wjjkMo83AI7Y6VpabpFtpKyC1kvJPMILfar6a5xj08x2x17YzV6ih1JtWbdgc5PdnI65aeGotSnW9sdZ8yX5500+3vjDOT3cQDy3J6Hdn0NWPB2ivY6dqkk1obBNTvHuI7RW2NBFsSNF+X7p2oDgH5c4zxXTUVftXycv6lObcbGRo/hjTNBkuH00XaG4YtKJb6eYMx6th3I3HH3uvvS6P4Z0zQZ7mbTVule6bfOZr2abe2ANxEjsN2ABnrgAVrUVDqTd7t6kuUne73MIeDNDWRzHbTxxSMXe1jvJkt2JOTmEOIzk9Rt5qxpPhvTNCmnk0qGW3E7M7wi5laEFm3ErGWKJz/dArVoodSbVm2DnJ6NnP3XgjRr11a6fVJSsglQNrN3hHHIZR5uAR2x0rS03SLbSVkFrJeSeYQW+1X01zjHp5jtjr2xmr1FDqTas27A5ye7CiiioJMVvCWlvdfaWbUfP2lBINUuQwUnJUHzOBkDjpxWlZ2UVjb+RC07pknM9w8zf99OSf1qxRURhCOysQqcIu6SuYdv4P0m0hEVodQgiBJEcWqXKKCTk8CTHWr2maPZ6Qs4sVlBuJPMlaWd5WdsAZLOSegA/Cr1Q3dnbX9s1vfW8VzA+N0UyB1bvyDxSUIx+FISpQjrGKuTUVj/APCI+G/+he0r/wAAo/8A4mpbbw1oVncJcWmi6dBNGcpJFaIrKfYgZFNOd9V+P/AC9Tsvv/4BBceEtLu2DXLahIVkEihtUucKwOQQPMwCO2OlX7DTINNDi3kun8zGftF3LPjHp5jNjr2q3RRGEI/CrDVOCfMkrmbdaBp93cvcMtxDLJjzHtbqWAyYGAW8tl3ccc5q3Z2dvYWy29nCsMS8hVHUnqT6k9yeTU9FNRitkPlinzW1Mj/hFtJDuUgmSN2LPbx3UqwsT1zEG2HPfjmptN0HT9ImlfTopIBKSzRCeQxAk5JWMttXn0ArRopKnCLukT7OF72Rl3HhvTLm4knaOeJ5jmUW91LCsp9WVGAY/UGnWXh7TNNvnu7C3a3kkUKyxzOsZAGB+7zsyAOuM1pUUKEE7pD9nC97K4UUUVZZlaz4Z0fxBJbPrFil01q26IszDafwIyOBweK1elFFJRS2RKjFScktWFBAIIIyD1BooplHFTfCDwJPEkb+HogI84KTSoxySeSGBPXv0GB0ArptH0PTPD9gtlotjDZW6nOyJcZPqT1J9zzV+itZVqs1aUm16lyqTl8TuYviPwfoHi2GKLxDpsd4ITmNizI6Z6gMpBwfTOKj0DwP4a8LyGTQtHt7WUjb52C8mPTexLY9s1vUUlVqKPIpO3a+gueVuW+hyWq/C7wXrWpPf6hoMD3Ltud45HiDtnJJCMASe5I5qufAvgDwrqcXiCWzs9JnikzHcS3jRRq5BGApcJ0zxiu1rK8ReGNH8V6ctjr9mLu3SQSqhkZMMARnKkHoT3rSFeppGU3y+T6GkasnpKTsV/8AhOfCX/Q0aL/4MIv/AIqnw+LfDGozLZ23iHSbmWf92sMV9GzOT2ADZJ+lc9/wpX4f/wDQA/8AJy4/+Lqzp/wk8EaXqVvf2OhiO5tpFlic3Uz7WByDhnIOD6itGsJbRy+5f5lP2KWjd/l/mVj8FfABPOgf+Tlx/wDF1t+G/AvhzwhNPL4d077G9woWU+fJJuA5H32OOvaugorKWIrSXLKba9WZyq1JK0pN/M5bWvhr4Q8Q6gb7VtDgluWOWkjd4i59W2Ebj7nNbmlaPp2h2CWWj2UNnbJyI4UCjPqfU+55q7RUOrUlHlcnbsS5ykrNnk3i/TvBx8U3Lah8NvEOp3SMGa706xfyJmIBzlJFDdcEkdc1rfCfwneaHpGr3WraemmtrF20yWCtn7PDztQ46H5jx2GOh4HodFbvFSdL2X6t/d2NZVpOPL+pwh+CvgAnnQP/ACcuP/i62/DfgXw54Qmnl8O6d9je4ULKfPkk3Acj77HHXtXQUVnLEVpLllNterIlVqSVpSb+Zy+ufDfwj4jvTeaxokE1yxy8sbvEzn1YoRu/Gr/h/wAIaB4VjddA0uCzLjDuoLOw9C7EsR+NbNFT7ao48jk7dr6CdSbXK3octbeBrdPibe+M726N1cyWiWllC0WBZxgfPg5OSxyc4GASOc11NFFZdLEdbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXL22r63rmralDpM+nWEOnXJtmS7t3nmlIAJbCyIEU7uPvZHPHStXRJtZlhuv7ftraCVLlkg+zMWWSLauH5OQSd3BxjH4nSVNxWrLlBx3G614htNCutLgu45nbU7tbSExKCFcgkFskYHHbP0rVrmtb1DXdI1KwlW60+Wwu9QitfINk4lRXOCfM83BPH9yukdlRGdzhVGSfQUSilFNBJWtYWiuXsNS8Q+ILFNV0dtOsrCYb7WG8t5JZJ48/K5ZXUR7hggbWIBGeeKi8HeIdZ8R3WsvqENtYxWF49ktoIWaRXVUJYyb8MuWOMKMjByOlU6Mkm+24+RpN9jraK4nQda8Wa9NqdsraXa/2bfSWrXr2cjJcFccLF5wK4ByWLnrgDgmt3w1rU2r2t3HfRRxX2n3T2l0IiTGXUBgy55wVZTg9Mkc4zROjKN/IUoON/I2aKxLpPFM1zN9huNIsoVJEQmgluWkHYsQ8YT6Dd9ak8M6zLrejme6gW3uoZ5bW4jR9yiSNyjbTxlSRkfWpcHy81xONlcLjxRplpqkdhc/bIppZlgR30+cRM7dAJdmw5/3q165vxn9zQv8AsNWv8zXSUSjHkUl/WwSSVrBRRRWZIUEgDJ4ArmbrWNbsfEyaYIrbUBdW7ywCKBofKIdQPMcuw24PJABJxgc1q2H9sJdyR6obOaEoGjmt0aMhs8oVZmz67sj6VnGopbL+kZKonJxs9P6/r8SE+LvDYOD4g0rP/X7H/jWpBPFcwJNbSpNE4ykkbBlYeoI61geFv+Qp4k/7Ch/9FR023A0rx5JZ23yWt/ZtdvF/CsqOqlgO24MM+pGaiFSVouX2v8rmcak7c0tr2/G35nSUVhWl/qmu24vdIms7SydiIWubZ5nmUHG/AdNoJHA5yMHjpVrTdUkubq60+7RIr+0ClwmSjq2drrnnBwQR2IIyeCdFNP8ATzNVUi2uz6mnRXJ6PqviTWJtQt1bTrf7Bdvbm7a1dlmxjhY/NBGM5JLHqAB1Na+h6tJqFtdLepHFdWNw1vceWfkJAB3LnnBVgcHpyO2aUakZK/lf5EwrKfTy+a6fgatFc9ZXuu63B9v06SwsrGXm2W4t3mklTs5xIgXPUDngj6Vd0bVpb6S7s76FYL+ydVnRG3IwYZV1P90jPXkEEU1NN/1/X6jjVjJq3XbzNSiiirNQorlvGWu+ItGn05fDui/2kk8hW4bYz7BxgfKflzk/MeBiupHTniojNSbS6GaqJzcOqt+IUUUVZoFFeUj4na5rniDULLw23hvTorC4a3Ka5duk1wVOCyKuMDj3rrvBOueItai1H/hJ9HTS5La4EUOzdtmXaMspP3hnJBHGCB2JrpnhqkI80rffqazoyh8R0JvrRb9bFrqEXbRmVbcyDzCgOCwXrjPGanrwy9/4Tr/he1rj/hHv7Z/sxvJ/1/2fydzfe/i39enFep6Jc+I7LTb268dSaNEsC+YsmmmXYsYBLF/M9Mdqqrh/ZxjJSTur/iVUo8lrO+xuXFxHa2stxcNsihQu7YJwoGSeKxPDXjjw94vkuE8O6h9sa2CmUeRJHtDZx99Rnoelcrp/i/x14ut5dV8HaPpNvo6sy251Z5POuwCRlQnC9Mc8Z7msb4OX9zqnxB8bXl/afYrqSWLzrfdu8pwzgrnvgitFhLU5ue8V3Xfqv6sU6PLTlJ7q3XzsexUUUVwHMce3xX8FprB0ptZxeif7OYvss3+s3bdudmOvGc4rsK8y+NH/AB7+FP8AsOwfyNelySLFG0kjBUQFmY9AB3rpqwgqcZxvrf8AC3kjapGKUXHr/mOorzjT/GXjHxkJ77wPpelQaPFKY4rnV3kDXWOpRU+6Pr/iBq+F/H6aomr2viGz/sfVNEBe/gZ96LHgnzFbuuBn8uuaUsNUim303XVfIUqM0dlRXmmneMPHniyyk1nwloukwaRuYW6anI/n3QU4JXYdq5II54z3NR/Dfx54t8ca1eNd2Wk2WmWMpjuItsouVJDbQCSVJBGDkD6VbwlRRlJte7vrsOVGUYuTtodzrHijR9Bv9OstWvPs9xqcvk2ieU7eY+VGMqCByy9cda1q8n8a6v4q0TXdIude0rwnfWUuqrb2Uht5ZbiAM2QwLEBWwo5XuBXq7MFUsxAUDJJ7VFSkoU4y73FUp8qVuv8AmLRXm9j418XeM7i6m8B6ZpUOk20phS+1h5P9KYdSix8gfXP55AueDfGfiHWfGmqeH/Eej2+ny6dbI7tA5cO5PUHptYEEDqMHJ7BvC1Em3a6V2r6jlRlFNvpud5RXA/FLxX4y8LwaU3gfw1/bjXM7JdfuZJfKUYxwhBGcn5jwMc9a7yNmaNWkXYxALLnO0+ma5lqrmL0sOooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOBtr+x1eI3PjrwZJ9tinlihmOiPdB41kYIV2q7rwAfmxnqOCK2vB8F9DHqLTRT22myXW7Tba5J82KLaAcg8qpbcVU8qDjjoOkoreVW6aS3/rQ0lO6skcR4q163vTpkdrY6xK1rqkE0u3RrvCohO5gfKwfwzntXS2mo2mv2tzDDFexpt2P9psprYkMCOPMRc/hnFaVFTKUXDlS/H/gA5LS3Q5HRtXm8OaDa6PrGnajLeWMQt42s7GSeO5VBtRw6KVTcAMhyuDntzVb4eT3Z/4Su41WDyLj+2pJHhj/AHhjHkxEL8v3mAwDjOT0rotQt/EEt0x0vU9NtoCAAlxp0kzg9zuE6D/x2pNE0ePRbKSJZpLiaeZri4uJcbppW6tgcAcAADgAAVq6keWT6y/zv/W5TlHlt3Of8B3eZNdjktNQt2m1S4u4/tNhNCHiYrtILoASf7vX2pPBFw8mpeJz9kvrf7TqbXMDXdjNAskZijUEF1H8Snjrx0rsqKiVVPm03Vvy/wAiXO99NzzjSbHSmsETxh4YvNV8Qlm+0PdaW90JHyf9XMymJU/ujcoAxkCtT4cM9ppt7ptzpdzplwl/czfZ3tpFiRGlJUJKVCOMEY2npXZ0VUq/NFprfz/LyHKpzJrzv/X3nEeKtet706ZHa2OsSta6pBNLt0a7wqITuYHysH8M57V1Om6vbasshtY7yPyyA32qxmts59PMRc9O2cVeorNyi48qX4/8AmUotaIKKKKyIOSl1mEeNIr37Jqht47CSBpBpVyfnMiED/V88KeeldLZ3sV9befCk6pkjE9vJE3H+y4B/SrFFZwjKKs33/F3M4xkpNt7+Xlbv5HHaDq8VjqGtyXVnqqLdX5mhP8AZVydyeWgzxHxyD1rUsrSXU9cl1e6gkt4fsxtbaOVdshUtudyP4c4UAHnjnGcVu0VMaWiUne3+VvyIjTa0b0vf8b/AJnM6NdN4a0mHSNTtrxjaDyoZ7W0lnSaMfdP7tWKnGAQccg4yKsaZbTya1f69eQyW6TQJDBAVzII03MWZRnkluF6gAdzgb1FUoPRt7bfdYcaSSUei2OX8HXOZdZSS2vYTNqE1zGZ7OWINGdoBBZQM8dOvtTfDDC6vPEMUtteQpd3jSoZ7SWEPGY0XILqO4PHWuqoqVT0SeyVvy/yFGk1y67Nv77/AObOE03RNE0WyTT9e8LwzzW42JeQ6T9pW5UdGJRGIbGMhsc5xmuh8P21rC1y9h4fi0e3cqEYRJE8+M8lFGVAzxu55PA77VFEKXK7/p/X6ChQjBrl2Xl+v9PzCiiitjoOW8Za74i0afTl8O6L/aSTyFbhtjPsHGB8p+XOT8x4GK6kdOeKKKiMWm7u9zNQam5X0dtO3/DhSMSFJUZIHA9aWirNDwmS3sddifUPHvwq1j+0p5HxPottIA43EbnQSAhuDywOeD0Irrfg/wCHNY8P2uq/bYbqy0m4nD6dY3sgeaJecs2OFJyvHt+J9JoruqYyU6bppWT827el9joqV3OLjbT+tjzPxda6poXxY03xfBo99q2nLYGzlj06PzZo3yxB2dxyOfrnHGdaLWNS8c2uoaRL4V1PSNLvLOWE32oMsUisy4A8nk985z2rtqKyddOKTjqlZPUl1dnbVW19Dyvwr4h1zwL4eg8N674N1m8nsd0cFzpNuJ4Z03Ehi2Rt69+e5weKzfhvd67YfErX7jxD4X1e0fXJ1KSJal4IMbz88vAxggZGcn0r2auf8ZeIdQ8NaKl7pOgXWuzNMIzbWpO5VIJ3HCsccAdO9bRxHO5JQV576+d/lqWqnOnCMfi/4c6Cmu2yNn2s20E4UZJ+leUf8Ld8W/8ARK9a/OX/AOMVe0X4n+JtT1uzsrv4b6vYwXEyxyXMhk2wgnljuiUYHXqKh4Kuldpfev8AMTw9RK7X4r/M5/4heJL/AMVx6KuneC/FcZ0/Uo7uXz9KYbkXOQuCeee+PrXoel+IE8a2Wo6dLoOu6RG9uY2fU7LyA4cFTsOTkiuooqZ14SpqCja22vcUqqaSStbb77nlHhTVvEHw50geGtd8LatqkVq7CyvdHtxOkqFifmGRsOSevPtxkzeHvBur+ItU8UeIPFNt/ZMmvWZsYLRSGeGIqF3Nj+LAXg89c44Feo0VUsU3zSSSlLd/13D2zV3FWb/zv+Z5T4Z8Q+I/Anh2Pw3rHg/VtSubEGO1udMh82Cdckruf+DrjkE45Iqv8D5r1rjxjcapB5d42obp4oxnbJ85ZRyeh4612OteHfGF9q08+keOf7Ls5MeXaDSIZvL4APzscnJyfxq94P8ACFl4O0h7O0mmupriUz3V1cNmSeU9WPp9P5nJO869N0pvTmnba/e/XT7rmk6kORpWu2npf9TzP4heJL/xXHoq6d4L8VxnT9Sju5fP0phuRc5C4J5574+tej6H4mXxbHeWj6BrukqsWC+qWXkBw2RhTuOSK6SiuadaEqago2t59zOVVNJJWt/nc8n8JX+ufDLR38Oaz4X1bVba3ndrS+0eAXAlRju+Zcgqck9f6ZPW+G/EfiDxBrkrz+HJ9I0NYP3cmoDZcyS5/uAnauM9fz7V1dFFSuqjcpRXM+uv32JnUUrvl1Z5n4g8ReJdU+NuleE/C2oNZafY2v23W5VgjfKk/LHl1OCcAcYPzk9q9MqvDYWdveXF5b2kEVzdbftE6RhXm2jC7mHLYHAz0qxXLsrGT3uFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFZWtW+tT3Wltol3Dbwx3avfLKATLBg5VflPOcen1rVptWSY2rBRRRSEFFFFABRRRQAUVzWt6hrukalYSrdafLYXeoRWvkGycSornBPmebgnj+5XS1bjZJ9xtWCiiioEFFFFABRWHHrl9qM0v9g6bFc2sTmM3VzdeSkjA4OzajlgDkZIA44zTtI1+TUtYvtOuNPks5rKONn8xw24uW+7jgr8uQe+egIqI1IytbqZe1he36M2qKKKs1CiiigAooooAKKz7bVhceIL7S/JKm0iil8zdnfv3cY7Y2/rWhSTTV0JSUtgooopjCiiigAooooAKKwNYvtX0y+s5FuLKSzub2K38k2riRVc4J3+Zgn/gNb9TGXNfy0/J/qQp3k49v6/QKKKKosKKKKACig9OOtYmh6lqFzq2rWGpPbStYyRqklvC0YYOm7kF29fWpckmkTKSi0u5t0UUVRQUUUUAFFFFABRRRQAUVzc3jCOH4kW/hL7GxeaxN39p8zgYYjbtx7HnP4V0lXKEopN9dSpRcdwoqO4877LL9k8vz9h8vzc7d2OM45xmuF8AeMPEGu+J/EGi+JYdNSbSGjTfp6yBWYls8uxJHA7CqhTlOMpLoNQbi5djvqKKKyICivMvFPi3x34T1Wwa+i8Oy6ZqGpLaQ+Ss5mVGbgtkhc7R2zz2r02tZ0pQipPZmk4OFr9QooorIzCiiigAornvEl54pttW0aPw1ptreWU1xt1OWdgGgi3L8y/OuTgv2boOPXoapxtFSvuU42SfcKKKKkkKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOFn0Fl16/n17ws3ib7RcGS1ugYJBbxYAWPZM67CuDygOepOa2fB9vpNtaX6aK1wu69Z7m3uifMt5Sqgpg8gYCkckYIwSMVT0bwrrnh6yktdK8Q27xyXEs+y904yLHvdnwmyVCPvc5Lc5IxnFa+h6EukNeXE1y13fX8omurhl272ChVCqOFUKAAOT6knmuupNOLXNfta/5PT7jepJNNXv9/6mF4u0PSYNR0bU4dMs47+TWbYPdpboJWyTnL4yenrXXXUxt7OaYKWMcbOFHfAziua1bw/4k1ZrbzNc0uNLW7S6iC6TITuQ5UMftHI55wB+Fbmmw6rEsn9sXtndE48v7LZvBt9c7pXz29PxrObTppc12vXy8iZNaNu9vXuzm/DvhnS9d8N2Gr+ILS31XUtQgS6kup0DtGXG8LETzGq5wNuOmevNVPhzo9vaaj4qefZeXaavJbfbZkDTPD5URCM+MnHf1OT1rZi8PappVs1noGswWenZYpFcWRne3BOSsb+YoCjJwGVsdOgArN+HWniz0/xA2nztNBdatNJbXc5Mnn/IitITxuBdXORgHtxiuhzvGo1LR7Ltqv6si3L3Hr1/z/rQoeC/B+i3c3iA39hbXdrDrNxFa2U0CtBbKMZ2R42gn1xnAAHvueBnaJdc0xWY2umapJb2qsxYxxGNHCZPOAXIHoMDtVjwzoGp6FJqH23U7S8jvbmS7KxWLQlJHIzyZWyvHTGfek8OeHtQ0e61aXUNStb1NTuDcukNm0OxyqocEyv8uEHHXOee1TUqKfNeV9FbffT/AIIpzUua766GNPF4e1y4uLu38H3fiWN5HU3kixSR5BwwiNzKpC5GMoNvHBrS+HtxNN4Zlim+0BbW/ubaJLl98kcaSsFRmyclRgZyenU07TPDesaNYRaXpmuwR6ZCCkIksN9xGnZRJ5gQ46AmM++am8K+HL3w1Hc2smqJfWck8s8fmW7CcM7ljvk3kP1/ujPWlOcHBxUvTf8A4YJyTjZPr57a/wDAGeM/uaF/2GrX+ZrpK5XVvD/iTVmtvM1zS40tbtLqILpMhO5DlQx+0cjnnAH4VuabFqsSyf2xe2d0SR5ZtbN4NvrndK+e3p+NYy5fZpJ6/Py8iJWsrP8Aq7L1FFFYmZx13oNq3j+GOyVNPjuNPlku/skYje4/epwWXBGSeT168jNbSaDZaXHdz6PbC1kltyhigG1GYZIYqOC3+11qo+i662trqa6vpwlSBrdUOmuV2swbn9/1+Uf4Vt2SXiW+NQngnmyfnghMS4/3SzH9a5YUk4OLjZ69urf6HPTglUcnHrfp2Xn3MvwXtHgfR9nT7HHn67ef1zWq8UMLy3Swp5xQB3Cjc4XJAJ6nGTj6ms7+yLuyaX+wr6K1ilcyGC4tzNGjHligDoVyeSMkZ6AZNP0vRPsN3PfXd1Je39woWSdwFVVHIRFH3Vyc45PqTW15PS1vP/L+lp9wUlKEYwavb9DL8P6XY+IdBtdW12zttQurxfOJuYhIIgeiIGyFAGBx1Iyeam03EPiLU9AdRNp4to54opPmEauWVo+eq/LkDtkjpirEei32m749Bv7e2tWcuLe5tTMsZJyQhV0IBJJwc4zxgcVb0zSk09p53la4vLpg1xcOMFyBgAAcKoHQfzJJMRhqtLd/PT/PXXsTGnJcqa1W77/rr/WxjeDbK1Gk6vZi2h+y/wBp3MfkeWNm3djbt6Yx2o8H2lva3XiK2tYIobdNTKrFGgVVHlR8ADirkei6hY3d0dJ1K3gtrqYzvFNaGRkdvvFWDrjJ55B59uKTQ9AutEm1JhqQukvZTODPAfMWQqBlmDAMPl6BVqKcZR5U47Rt08v8iVTknFKO0nrps+b/ADRh+FfDGlXM+t/a7KC4t4tUmjgtJIlMMAAXJVMYBOeuOgArX8KEoNY07Ja2sr94YEc7tkZRW2c9gWOPbA7VPoGi6hpEt8brULa6S7ne5Kx2jRFZGxnkyN8vHTGfel0LRr7SrzUJru/t7pb6fz2WK1aLY+0L1MjcYUcfrTpQ5eVWt7tn66f8EVOm4crUbe877ba/5ow7DwzoL+OtYt30TTmhjtbZkjNpGVUkyZIGMDOB+VdVDaWejafKum2UNtEgaTyreIICcegHXiqd1ot0Nak1TSL6O1nniWKdLi3M0bhSSpADKQRuI6456Vb0+1vbfzG1HUTeO+MKsKxxx/7oGW592NOEOWLSVnrrp3ZpSpqnL4eu+n/DnGaLBBq2lQanq3hG61i7vEEz3U32WQfNyBGHlyijOAMDpzzmug8Lx6jbyX1vdWd1a2CurWS3c0ckigj5kyjt8oI4yc4bHapItDv9NLx6DqUNtaOxcW11amZYiTk7CroQMknBJ68Yq9p1hPaNLLd3815PMRuL4WNMdkQcKOfcnuTxSpwcWnZr7v03M6VFwabvdbvTX9TnLvQbVvH8MdkqafHcafLJd/ZIxG9x+9TgsuCMk8nr15Ga6Cw0LTtLu5J9Nt1tPMQK8UPyxsQc7io43f7XWs59F11tbXU11fThKkDW6odNcrtZg3P7/r8o/wAK27JLxLfGoTwTzZPzwQmJcf7pZj+tOjBRWsbPXt1b/Q0hBe0k3Hr5dl59yeiiiug6TA8Wf6vSP+wtbf8AoVbsj+XE74ztUnA71z+p6JrmpmASavp6Jb3KXMYXTXzlTkAnz+R69PwrXsI9RjD/ANqXVrcE42fZ7VodvrnMj57elYQ5ve0td+XZLv5GEeb2rbjpZdujfn5mF4f0ux8Q6Da6trtnbahdXi+cTcxCQRA9EQNkKAMDjqRk81Y0iVrLxPqGixsWtIreK5gUknydxZWTJ/hyuQO2SOmMTR6Lfabvj0G/t7a1Zy4t7m1MyxknJCFXQgEknBzjPGBxVrTtIjsftEssrXN3dkG4ncYL4GAAB91QOgH6kkkjFpqytbfz0/z1+REKclyprVbvv/w5gSpourXE9xD4ZuddR3YG6cRumQcERmeQYAI/gG3jirHha9li8KXjus7CynuUijnbdIqIx2oTk5IHHU9KsWOhappdmmn2GsQpYR5WISWe6aNfQPvCnHYlD75qTw9oV1oSXFvJqC3lpJLJKokhIm3O2TufeQ3/AHyKzjCd9Fa6fbfS23zJhGaqKTj67f8ADlTRtB07V9FtNS1m0h1C9vIVnea4QOULDdtTP3AM4AXHT15qHwjaGx8SeJbc3Ek6pPDsaRtzBfKBCk9TgcZPPFaEWjalp6G30bVIYLLJ2Q3FoZjCD/CjB1wPQMGx9OKj0Pw1Poer390mo/aYb9lkmWaEmUyBcbt4bGDzxt44Axir5X7RNRstSVTknD3dU9Xp2a+ep0FFFFdB3HLeMvBX/CXT6dJ/ak1j9hkL7UXcHzjkcjDccHnr0rqQMDFct4y8Ff8ACXT6dJ/ak1j9hkL7UXcHzjkcjDccHnr0rqQMDFZU42ctLXf36bnPCFq05ctr21vv8ulvxCiikYblK5IyMZHatToPn3XNM1O18XapN488F6x4oie4d7O8tLqXy7eHPyhVj4HGOCRj0rt/gvPo02nay2i6lfXJe7DyW2oLiW1XbtRSdzbuFxu44UDAxT9H+GXiLw3pos/Dvj66tI2kaSRZtOinUsSTlQxyvGM88nJ710nhHwXbeFDe3Ju59Q1LUZBJeXtxgNKwz0UcKOTx/wDWr16+IpyouClfZK1+nk9F8md1erGUWk/Tf9dvkeY3vw78LH47WuhnS/8AiXT6Y11JB9ol+aTc3zbt24dBxnFekRaDonw38K6zfeGtM8kR273LxGaR/MaNCRyzHH4VH4p8Cya1r9pr+iazNoms2sRgFykCzq8ZydrRtgHqeffvxiTRPCGp2l/JeeIvFWoa48kLQtbsiQWxVupMS8E++e5rGpX9rTinU2Wq11d/u7Ezq89nKV1pda/PyOP8HfD/AE3xz4Xh8S+NZrrVdT1INKkhuXRbUbiAsaqQBjGcHI9qr/BvTpNJ+IHjbT5ruS8a2ljj8+VtzSAM+Cx9cYz710Nt8NdY0IS2vg7xpd6RpUjlxZS2cd15WTyEdiCo/wD1kk81F4S+FmoeD/FE+p2Hiyae2u5A93bz2avJcYyfmlLZByxOQBmt5V4SjUXtNGtFZ6ap22svlv1KnUUqc4ud77b97/L8j0eiimuGaNgjbGIIDYzg+uK8c4TzT40f8e/hT/sOwfyNeialef2fpN3e7DJ9mgeXYOrbVJx+leda38MfFfiIWo1j4gfaBZ3C3MA/sWJdkg6H5XGfoeK63w5oviHTpLj/AISTxQNeilQLHGdOjt/LPc/KTuz6Gu2p7P2MYqabV+/W3kdM+Tljqnb17+hwfgjwbYfETw6vijxvPPq15fSO0UYuZI47RVYqFRUYYPGfy9yXaD4g1LwdrXjLw491Nq9roli1/YvcvvdBsDeWzdcfMB+B6Zrai+GeoaHdXH/CD+LLnQbG5kMklk1pHcxqx/ubyNn6npzxW14U8Cab4Wtrz95NqN7qJ3X15eEO855yD/s8nj35JrepXptS968XtHXT9Fby3NJVY68z5k3ou2v+WmhxPg34eaX438JweI/F91d6pq2ohpRci6ZPs3zEARhSAMY6EEA9qzvgl4Ysl8T+Ir3UM3uqaVfGCK8Mj5Od6u2M4Ocd81p3Ph2x8K3F3pWg/FKDw3YsxaXTLh4ZJIdwyQjO4ZMg5GOec80fAjS/suk+IrmwklNhcXxjsbiVMGVEyA+DjPUfiCK6J1JOjVlGXuu1lZqyvt227blzlL2Ury0bXfbX+rIofFDwXoGgaloGraTYfZ76912L7RL50jb9xLHhmIHPPAFey3M32a0mn2l/LRn2jqcDOK821v4Y+K/EQtRrHxA+0CzuFuYB/YsS7JB0PyuM/Q8V1vhvRvEWmy3B8R+KP7djkUCOM6dHbeWe5ypOc+9cVeUZ0Yp1E2r9/LujGrKMlFuV2vXXXzR5/wCBvCdl8TdFk8U+OpZ9VlvJ5Bb2huHSK0RWwFVUI54/LHfJPS+Dfh7d+EvGmqX6anJdaVPbJBaQzzNJLEAd205GNoOduM8H82L8NtQ0W6uW8DeK7nQLW6lMslm1pHdQqx/uB8bf1/QVqeG/BU+k65Lrmt6/ea3qskH2fzZVWKJEznCxrwOR61pVrpqXJP3WtI2en6fO46lTmUrS0ey+f3L5HO/GPwdo/jP+wbTVvGUPhuaG5Z7eOWRAbonaMKrOuWBxgjON3TmvS408uNU3M20AbmOSfc155c+Cb/X/AI5R+JtcgC6PodokelKXVvOnbJaQqCSNucc4yQpHAr0WvMWkfvOSTvL0/wCHCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqC5vrSzeBLu6hga4kEUKyyBTK56Kuep9hU9FmBl3/AIX0DVbo3WqaHpt7cEAGW4tI5HIHQZYE1pIiRRrHGqoigKqqMAAdABTqKpyk1Zsbbe4UUUVIgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKhu4JLi2aKG6ltHbGJoQhZfpvVh+Yqaik1dWAx/wCxb/8A6GfVf+/Vr/8AGKlttKvILhJJdf1G5RTkxSx24VvY7YgfyIrToqVBJ3/Vmfs4+f3v/MKKKKs0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5/xl4e1DxLoqWWk6/daDMswkNzag7mUAjacMpxyD17V0FFVGThJSW6KjJxd0eTf8Ki8W/wDRVNa/KX/4/V7Rfhh4m0zW7O9u/iTq99BbzLJJbSCTbMAeVO6Vhg9Ohr0uiup42u1Ztfcv8jV4io1Z/kv8gooorjMAooooAyb3wn4d1G8e61DQNLu7iTG+aezjd2wMDLEZPArUiijghSKFFjjRQqIgwFA6ADsKdRVOUmrNjbb3CiiipEFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBhSeKFe/uLXS9J1DVfssnlXEtqIljjfgld0jpuIzyFzjoeeKtaJrtvr0N09tBcwG0uWtpUuY9jBwqk8Z6fMOf6YNc9oP9l+Ipr6+8L65qGlsbuQXtlCYG/fK20uyOj7d20HgjI56k1qeFtZudTk1S2uXS6XTrv7PHfRLtS4G0E8dNyklWxxkdug6Z00ouy1S+f8Al6G04pJ2WxV8QXllJrWlx634e1B0h1GMWV8JYhEs5yFbCy78cnqn4V1Vc34z+5oX/Yatf5mt+6jeazmjhbZI8bKrf3SRwazlrTi/X9CZa8vp+rMU+LElklOl6RqWqW0LmOS7tFj8sMpwwXe6s+CCDsDcgjrxR4f8X2fiee9GkWt1LbWbmJrthGsbyBVbYoL784YfeUY5B5FQ+CLy0h8B2ETlLRtNtltryORgpt5I1w4bPTkE5PUEHoazPhpd21+3im7sUKW82uyvGSu3eDFEd+PRvvD61tKnFKat8PX5opxXK3bZl6x8eRapLc2+naHq1ze2czQ3VqogDQEcfMxlCcnOAGJOCcY5rb0fWLbW7D7VaeYm12ililXbJDIpwyMvYg/0IyCDWH4ERV/4SMqoBbXrosQOv3RzSeDW26l4uOCca25wO/7iGlUhD3klayT/AC/zCcY+9bo/8zRuvEU0NzNFZ+H9XvxCSHkhijjXI/u+c6b/AKrkGr2kataa5pkd/YMzQyEjDoUZGUlWVlPIYEEEe1cvot5f+JPDq+ILvxPLpMEm5jBZx24S2UHG2RpUc7xj5jlRnPAqb4aTJceGryaO4a5STVbxlndNrSAzN8xGBgnrjA+lE6SjB916/wDDfcE4JRv2dvz/AMiPxdoekwajo2pw6ZZx38ms2we7S3QStknOXxk9PWuzrm/Gf3NC/wCw1a/zNdJWcm3Tjfz/AEIm27X7fqwooorEgwpvFdtZ6k9lqNnd2cnltJE0gjcXADBcIEdmJJIwCAatWmtrPNNDc2N3YyQxedtuFXDJ6hkZl7dCQfaqU8Ub/Eazd0Vmj0uYoxGSp82MZHpwSPxrcuIftFrLCTgSIUz6ZGK54uo4OSd9/wALpGMOZzab0T/RP9f+HOc0ezl8SafFrGqXl6i3Y8y3tba6kgSGM/dyYypZiMEkkjJ4Aqzo+narY+INQ+2Xk93p7Qwi0aZwSpBfcCB1PI+YjkY6kUvhGUQ6Db6VcEJe6dEsE8J4I2jAYDurAZB6H6g1attattUvbyy05nlNsu2S5QZiVzn5A2eWHUgdPrxTtCNnH/h9DKlGLhCU3aXX16r/AIHT5DZNd3TSJp2m3mpCJykklsYlRWHUZkddxHQ7c4PB5qxa6pFe2s0ttHK0sJKyWxAWRXAztIJABPGDnByDnHNZfglli8MW2nyDy7yxXybqE8MkgJySPRvvA9wc0mkH7Z4y1bULQ5svIhtzIv3ZZULliD32hgufXI7U1J+6r3v+Gm/p0+aKjUk1GT69O3/BXUv6Zra6rp1xc29lco9vLJC9tJ5YkLp1AIYr177sUuka0mrpd7LS5tpbOYwSwz7NwbaG4KswPDDvWd4TZYItaSZlRo9UuHcMQNoJDAn0BBz9Ki8G3UN7deIbi1kEsMmpsUdejDyo+R6j371NOblyXe8b/PT/ADEqkvcu92191/8AJEtn4xi1CW4gsdI1Ke7tZTFcWyiENCR3LGQJzzgBieDxitfTdUg1WyNxahwUdo5InXa8br1Rh2P/AOvpWR4PUB9fIABOsT5OOvC0vhb/AJCfiT/sKH/0VHTpyk+W73jf8v8AMVOc9HJ3u2vuv/kULLX9TPjDVY20XVJI1t7crbedb/uj8+W5l2/N7E9Oe1dTZXMt1b+ZPZT2TbseVO0Zb6/IzDH41h2DKnxG1hHIV5bK2aNScFwDICR6gEj862Td296Lq1sryF7mNMOscgZoiQcFgORSptxg3e+/5sqimm+aXV9ih/wkgnmlXTNKv9RihYo1xbiJYywOCFMjruwePlBGeKvabqltq1s01ozfI5jkjkUq8TjqrKeQea5fwlY3EmhQWX/CRaja3dkghuLNUtswsOOhhJ2nqCScg5zWr4ftrGLVdUltdXuNTuZDGt08gj2oyggAGNFXdjqOT0ziinOTa8/T8P6+ZNOpOXK3pf00/G9+/wCg6bxXbWepPZajZ3dnJ5bSRNII3FwAwXCBHZiSSMAgGrlhq/227ktZrC8spkQSBbhVw6k4yGRmHXsSD7VQnijf4jWbuis0elzFGIyVPmxjI9OCR+NdBVU+Zq7ff82jWPO5yV9E/wBE/wBf+HCiiitjYyH8QK95Nb6dp15qJt38uaS3EYSN+pXLuuSM8hc4qxpOsQ6xHctBDPCbacwSLOm1gwUE8Z6fMKxNH/s/XJry78P6te6e32lxd2sRhOZQdpZldX2529iMjnrmrujajdanHqto0qStaSmCK9jXCynaD9Nyk4OOMjt0HNGpJq+91f122/4JzwqNyV3o215dfn6+Y/8A4SQTzSrpmlX+oxQsUa4txEsZYHBCmR13YPHygjPFXtN1S21a2aa0ZvkcxyRyKVeJx1VlPIPNcv4SsbiTQoLL/hItRtbuyQQ3FmqW2YWHHQwk7T1BJOQc5rV8P21jFquqS2ur3Gp3MhjW6eQR7UZQQADGirux1HJ6ZxTpzk2vP0/D+vmRTqTlyt6X9NPxvfv+hU8UaTp0V5pV/Fp9ql4+rW+65WFRI3zd2xk11VYHiz/V6R/2Frb/ANCrfq6SS5ku/wD7bE0ikq0rdl+cgooorU3Oe8T+NdK8JzWcWqC4ZrxiE8mMNtAxljkjjkdMn2roQcjIrlvGXiTw7oU+nR+IrL7W80ha3/0dZfKIxl/m6dR05rqQcjIrKnK7lrez+4wjNutKPMtLadV6+vQKKKRmCKWbgAZNam5xl98UdJt9UuLHTNM1rXJLRzHcvpViZkgYdQzZH6ZrU8J+NdK8Zw3kmji4UWcoilFxFsO4qD0z25HPcHtgnx/T4fD+qXt/rHgz4kT+ExcXDyTafqDrGGkJzuA8wArzxwxHT2rs/g5repamuvW+oizvFtrsY1azgWNL1zkMSQqhyNq/NjJBGexPq1sLThScorVJb3Xbys/kzsrUYRi3Hp/Xb8jFvPiXqCfF+3K6P4nFgmntG2kizPmStub96It2COB83Xg16Z4b8S/8JJDPJ/YusaT5LBduqWvkNJnuoyciuG8QX1ron7Q2lahq9xHY2UukNElzcMEjLbnyNx4zyPzHrXR6p4t0XxLYar4e8Ma1b3WsT6fMYBauXAOwgHzF+Uckd81FaEZU4ckOm/bV3HUipNWjZWWpT1T4o6BLJfWFnpmsa7bQq0V5caXZmWGIEEMC+R2zyPwNcp8EDpLeM/F58OKU0smE2qndkJl8fe5/Otb4V+LvC+j/AA/tdMv9RtNJv7FpI7y2vZFgkEu4knDYLdumfTqKxvhFrmiT/ErxfJY3MFvBqNwrWUTuEaYbpCdinBPXOAOM10eyVOFaEYvRb9Hqtf8ALyKlG1GpFJq1vzPa6KKRmCqWYgADJJPSvFOA8W+KHgvQNA1LQNW0mw+z317rsX2iXzpG37iWPDMQOeeAK9qrx/4t+J9B1KHw0NO1vTrswa1DJKILuN/LQZyzYPA9zXoza1p3iHS9QtvDWs2N3d/Z3Cm1uUlMbMpCk7Scc16FdVJUKbnfS+/yOuqpyUHP736sxb74paNb6ncWOmWGr67JattuW0myM6Qn0Zsgdu2a3fDfinSPFmnNeaJdCZEbZIjKVeJvRlPINee/CXxR4e8P+DToWtXVtomq2E8gvIb6RYWdyxIYFsbuMD8PTFUPD8Fx4r8UeP8AV/CiPDpmo2LWtvMR5a3FzsxvXpjncc/7eT1q6mGgueNmuX7XR/8AD9Byox1VrWe7662/4J1t18XdCjubhNNsNY1i2tTi4vdNs/Ngi9cvkcAc5GRUvhf4p6T4w1lrDRNM1iSNWKtetagW6YBI3MGJXOOMgGsH4Y+M/DOh/DyDTdVvrfR77Td6Xlpdt5cu/cSSFPLE+gBPaqXwGubS4k8W3VjF9ns5L5ZIY2AHlxneQPQYFVPD04Qqe6/d2d97u1/1QTpRUJPlas7E3jPxDoGqeLtBbxDoniyxl0zUgllcC0jjt55S64yzE7l+QHjBxmvW68f+LfifQdSh8NDTtb067MGtQySiC7jfy0Gcs2DwPc16Xb67peu211DoGsWN7OsR/wCPS5SUxkggE7Scc1hXg/YQaTW/6fmTVi2ou1l+WrMDUfijo1rq1xpul2Ora/dWpxcro9mZxAfRjkD24zzx1q14W+Iuh+MNVuNP0kXYuLaESzLcQeXs+baUOTncDjPbngnnHG/CLxFoXhvwtcaH4gvbbR9ZtbuQ3sd9KsLSMTw2WIDcYHXt7jPT6BrXg3UviJqJ8OKLvVprVXvNQtiXhKqQoTdnbu6dBzjrkVdWhCDlBRbst/19AqU4x5kovTr8/wCrEnxA+J2g/DePT38QJeSf2hIyRC1iDkBcbmOWHA3Dpk+1dfHIssayRnKuAyn1Brz3xx4qsP8AhYPh3wY/hWz8R3l8Tc5u2XbYoD/rcGN+cKx7fd969Erzl8Nzle9gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAyrjwr4eu40ju9C0ydELMqy2cbBSxJYgEcZJJPqTWjb28NpbpBawxwwxjCRxqFVR6ADgVJRVOUmrNjbb3MN/BPhWSRnk8M6O7sSWZrCIkn1J21e03RNK0VZBo+mWeniUgyC1t0i346Z2gZxk/nV6im6k2rNjcpPdnM67a2c2rLNP4GfWp4lBjvBFZtg9QAZZFcYPt9KseG9FmsrPUZNVjh+0atdvdXECnekYZVQR5P3sKoBOME57VvUVXtHy8o3NtWM3TvDmiaRI8mk6Pp9i8i7Ha2tUjLL6EqBke1O03w/o2jSvJpGkWNg8g2u1rbJEWHoSoGa0KKlzk92TzN9TNk8N6HLqX9oy6Np73wbcLlrVDJn13YzmpbXRdLsb6e9stNs7a7uCTNPDAqSS5OTuYDJyeeau0UueVrXDmb6mG/gnwrJIzyeGdHd2JLM1hEST6k7avabomlaKsg0fTLPTxKQZBa26Rb8dM7QM4yfzq9RTdSbVmxuUnuwoooqCTIbwn4cdizaBpbMTkk2UfP6VoWVhZ6db+Rp9rBaQ5J8uCMIuT3wOKnoqYwjHZWIVOCd0ipfaVp+qKq6lYWt4F+6LiFZMfTIqeCCG1gSG2iSGKMYSONQqqPQAdKkop2Sd0Vyq97alK+0XS9TdX1LTbO8ZBhWuIFkK/TIq3HGkMSxxIqIgCqqjAUegFOooSS2DlV721KN1omlXt2t1e6ZZ3FwuNs0tujuMdMEjNSJpWnx3E88dhbLNcrtnkWFQ0o9GOMkfWrVFLlj2FyxvexRstD0nTJHk03S7K0d12s0FukZYehIHIpbHRdL0yR5NN02zs3kGHa3gWMsPQkDmrtFCjFbIShBbIq32l6fqiKmp2NteKhyq3EKyBfpkGpLW0trG3EFlbxW8K9I4UCKPwFTUU7JO6K5Ve9tSlfaLpeqOr6lptneMowrXECyED2yDVqGCK3hWG3iSKJBhURQqqPQAU+ihRS1SDlV721MhvCfhx2LNoGlsxOSTZR8/pVlU0rw/pzFVs9MskOWwFhjUnuegGavUVKgo/CrEqnFO6SuY/wDwl3hv/oYdK/8AA2P/AOKqW28S6FeXCW9prWnTzSHCRxXaMzH2AOTWnRQlO+r/AA/4IrVO6+7/AIJnT+HtFukVLnSLCZVJKrJbIwBJySMjuSTV6GGK2hWG3jSKJBhURQqqPYCn0VSilsilGKd0ilfaLpeqOr6lptneMowrXECyED2yDVqGGK2hWG3jSKJBhURQqqPYCn0UKKTukPlV721Ml/Cfh2R2d9A0tmY5LGzjJJ9elW7DSdO0oONL0+1shJjeLeFY92OmdoGepq3RUxhGOyJVOCd0lcKKKKssr3enWV+YjfWdvcmFt8fnRK+xvUZHB96sUUUCsr3CiiigZkTeEvDlxDHFP4f0uWOPOxHsoyFySTgEcZJJ+pNadvbw2lukFrDHDDGMJHGoVVHoAOBUlFU5Sas2Nyb3KuoaVp+r24t9WsLa+hDbhHcwrIoPrhgRmiw0vT9KhMOl2NtZRHqlvCsan8FAq1RRzO1r6Bd2sZt94b0PVLoXOp6Np95cDGJbi1SRhj3IJrI14+CfB5j1/W7HTbCUzBEvBYhpS5B6FFLZwDzXU1V1DS7DV7b7NqtjbX0G4N5VzCsi5HQ4YEZ5q4TaaUm7eRUZa2lexx3/AAur4f8A/Qf/APJO4/8AiKsWPxZ8D6vqEGnWetrLPdOIY42tZlDsxwBlkA56c1rf8IN4S/6FbRf/AAXxf/E1LbeD/DVldR3Nn4d0m3nibdHLFYxqyH1BC5BrdvCW0UvvX+Ro3Rtonf5f5EX/AAg3hL/oV9F/8F8X/wATV3TdA0fRnkfR9JsbBpAA7WtskRcDoDtAzWhRXM6k2rNsycpPRsz9Q8P6Nq0yTarpFjfSxjCPc2ySMo9iwOKuxQx28KRQRrFGg2qiKAqj0AHSn0VPM2rXFdvc4DxOurS+IZWg+F2n68kW3ydRuL22V34B+66lhg8de1Wvhx4PvfDem6lca4bdtR1i7a6uIrcZjiz0jGeuMn25xzjJ7Wit3iJez9mlZfP9X+VjSVVuPKlYwv8AhBvCX/Qr6L/4L4v/AImrum6Bo+jPI+j6TY2DSAB2tbZIi4HQHaBmtCisnUm1ZtkOUno2Z+o6Bo+sMravpNjfsn3TdWySlfpuBqex06y0u3Fvplnb2cI6R28Sxr+QAFWaKXNK1r6Cu7WMKz8IabZ+NtR8VAzS6nfwR2xaVgVhjQfdjAAwCQCck8+lbtFFSIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiuFn19pNev7fXPFS+GPIuDHaWhFvGbiMAYl3zK28MSfuYx06iuk8PJqa2lw+rajb6iJJy9rPboFHkFV2ggcZzuOcnr+A2lScY3b/AD/4Y0lTcVqLrWrXemXWlxWmlzX63t2tvM8WcWyEEmRsKeBjHOOvWtWuW8RHU9L1LTbu21y8MN1qcFu9k8UBiCMcEA+Xv7dd1dNLKsELyyHCRqWY+gAzUyilBNClHZL+tR9FcppS654k0qDWTrM+krdoJrazgghdUjPKeaXRmZiuCdpXGcDpmoPA9/rurXmvya/essllfvZJawpGIUCoh8xTs387iRuY4BxjjNW6LSlqtN/yHyaN32OyorhPDX/CS63Nq8F54huYLXTtRmtYLiGC38+cLj7+YigAz2UEnPOMCtzwnqt3qFvqNpqUizXWl3z2clwqbBOAqur7R0O1wCBxkHHHFE6LjfVOwSg4312N+iuR1q/itdRlj1Tx/baKxyYbaP7LEVXtu84OWPuNoPpWh4N1qfXfD/2i7lgnmhuJrZp7fiOfy5CokUZOAwAPU9al0moc/T5ilBqPMOvvErabqcFrd6NqCwXFyltFehoDEzt0483eB/wGtyub8Z/c0L/sNWv8zXSUpJciaX9aBK2lu36sKKKRmCKWY4CjJNZNpK7IForntNe/8R6fHqaanc6bbz5a3hto4iTHnguZEbJPXjGM4561a0vUZzqt3pGoMJLm1RJUmVdvnRNkAkdmBUg9uhGM4Eqd2rq1zJVU7Po9ma9FFNkdYo2kc4VQWY+gFU2krs1HUVw1l4mtdXg+3XXjW00oTfNFZQTW2Yl7eYZFYlsckDGOnbNbHhnxANYe/smvbW9msWUfa7NgUmRxlWwCQG4II5GR71lGtGTsv0OeGIpzkkuu23+dzoaK4/Qf7e1afVIbnXJ4raxvpLeGaOGHzpcY+9mPaAM9lySTzxWpoerTS2epJqcivLpdw8Mk6rt8xQocNjsdrDIHGQacaqau9NL/AC/pjhWU7aNXbXzV/wDJm4enrWZpWtpql1e2xs7mznsmVZY7jYT8y7hgozA8e9UbBNV1ywi1M6tNp6XKCWC2t4omCoeV3l1YsSME4KjnHvVTwk14fEniUakI/tCzwqzRAhXAiGGAPTIwcc49aXO+dK1iXVblC2zf36N+vQ6yiiitjpCiuW8Zf8Jh5+nf8If5Pl+Yfte/ZnHGM7v4eudvNdSM4561EZczatsZqd5uFnpbXo79v1CiiirNAorxC4+JWp6l4q1SyvPGFt4OWxunggtn0v7QZlU43O7cL07Y6/jXffDrUfEOqWGoXHiG/wBP1CIXOyyubB42jkjCgE/ITjJ5w3IJPAGBXXUwk6cOeTX49flZ/Jm9ShKmryOgfX9Mj8RR6E92o1OSA3CW+05MYOM5xjr2zmtGvDL3Q/FP/C9rWzHjDGovpjSR6h/ZkX7uPc37vy87T3+brzXp+mRat4X0XUb7xd4kOtRQRmfzBYJbmJFUlhhD82adbDwhGLjJNtXtr36afmOpRUWlF3vbv1+R0FxN9ntZZvLkl8tC/lxLuZsDOAO5rmvCXj+w8YX+oWVpp+pWFzp23z4tQgWJlLZwMBic8d8VzOiXXj/x5ph1/TtdtfDljMW+w2QskuDKgJAMjtyuSMcfXArM+DkmpS/EHxs2upGmo+bEtwIgQm8M4JXPY4yK0WFjGFTna5or7ndL0G6SjSk73at+Z7FRRRXnnMcLf/FWw0vV47DUfDviK1E12LSK5msVSGRy2AVYuMjvx27V3VeZfGj/AI9/Cn/Ydg/ka9IubiK0tJbm4YJFChkdj2UDJP5V1VYw9lCcVa9/wsb1Iq0XFb/5ktFeY6HqPjn4hWb63pWs2/hnSnkZbKH7ClzJOqkjc5Y8cjt6fib3hvx9eRT+INJ8aRwxan4fhNxNLafcuIdu7eqnkHGOP9odOlEsLON1dNrddV/XkJ0ZK9ne3b+u56BRXl2iXHxD8caR/wAJDYa7Z+H7WclrLT/sSz+YoOAZJG5GSOoHTnAqv8K9d8Z+Kte1SbxDraxQaXcGGbTFsogGYhhgSD5htI98461TwklGTcl7u61/yHKi1FyutP6/rodx4k8aad4X1bRtO1CG6km1m4+z27QIpVW3KuWywwMuOme9dDXlHja98aeEdU0u7Xxf9qstR1ZLYWf9mQp5UbEnG/knAGM8HvXqssiQwvLK21EUsxPYDrWdWmoU4SWt79/1S/UVSCio21v/AJ+g6ivL9D1bxt8R47jVtE1m38M6KszRWeLJbma4CnBZt5wB9PcY4ydTwbeeOf8AhNNU03xeI5rG1tk+z3cFt5cU7k53BiOWIPzAcAj8TUsM4p3krrddfyt+ISpOKeq03O8orgfil/wsfyNK/wCFYfZ9/nt9u83ys7eNv+s42/ezj5umK7yPf5a+bt34G7b0z3xXKtVcyelh1FFFAgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5LRtU8W2VlIniDQLi/l+0S+VJZT2+7yt7bN6s6KPlxjBbIxnBzVzwppV5p7apc3kSWaahdm4h0+Ngy2w2gHkcbmILMBxknk9T0NFayq3Tskrlyne+lrnGeI7nWdTbT0tfCmqEWeoxXLs01oA6ITnb+/zk9s4/CujsbubVYJ47/R7zT0xt23bwt5gIOceVI/6461oUUnUTjy2X4/5g53tocppba54b0iDRv7Gn1cWiCG1u4J4UR4xwnm73DKwGAdqtnGR1wKnw9S/tx4qbUttxd/2zI7iAYViYYjtQtjIH3QTjpziuh1DSL29umlt/EOpWEZAHk20dsVHvl4Wb9as6VpVro1iLWxRgm5pHd2LPK7HLOzHksTyTWrqrlle15eve/wDVi3Jctu/9f1Y5/wAFRanaSawmpaLd2IutQmvYnllgYMrkYX5JGIbj0x70eD7fVINQ8QvqGk3WnLf37XcDzSQv8pjjTBEcjYbKE+mMc11lFRKs3zaLVW6/5+RLm3fTc4vwzDq/hvR10tvDclze72abUIriEQ3Tkk+a7FvMyep+RiOgzVnwLbavptrfWOt6Y1vK17cXP2mJ4zBL5kpYBAHLjg5+ZRXV0U5VnK90tfX/ADCVTmTVt9f6+84zxHc6zqbaelr4U1Qiz1GK5dmmtAHRCc7f3+cntnH4V0um6hc36yG60i803YRtF08Lb8+nlyP098davUVDqJx5bL8f8xSldbBSModSrDIYYIpaKyaTVmQc7pqaj4bsE0xNMuNTtoMrbTW0kSsI88K4kdeR0yM5xnjpVrSdOuBql3q+ohY7m6RIkgRtwgiXJCk92JYknp0AzjJ2Khu2uUtmaxiimn42pNKY1P1YKxH5Go5VGzbvYxVJRt2XQmpsiLLG0cgyrAqw9QayftPiT/oE6V/4NJP/AJHqW2n11rhBd6dp0UJPzvFqDuwHsphUH8xRzRlpb8GUqqv1+5/5Gfpq6p4dsk0z+zJ9TtbcbLae2liDeX/CrrIy8gcZBOcZ4rUsZ9TkWebULSKBMAwW8b75OBzubhcnjgcD+8c8X6KFBrqwjTUbJPRdDm/CkeoW0uqrf6Vc2gub2W7jeSSFgVbbhfkdju4Pt703w9aXjXWupqel3FpBf3LTIZZImDIUVNvyOxB+U+3vXTUUlSVknrZW+X9IiNFK2r0bfTrfy82c9YPquh2MWmHSZtQS2QRQXNvNEoZBwu8OylSBgHAYcZ9qr+G7TWbPxHrM2sWZ238kcqTwuhiQKgGzlt5I6Z24OCeK6min7P3lJt6B7FLl1dlt+X5BRRRWhuct4y/4TDz9O/4Q/wAny/MP2vfszjjGd38PXO3mupGcc9aKKiMeVt33M1C03O71tp0Vu36hSNu2nZjdjjPrS0VZoeRR2HjaexDeMvh7o/im8dmC3DXNtDLEmThSSpHbIKnoRnnNbvwu8EX/AIS/ta7v0hsl1OVZItMt5WkS1UZ43Hq3ODjjgfh6BRXXPFSlBwSST7X/ACvb8DedZyi42smee+LPD/iCz+Ith4x8NafDrBhszZzWD3CwNgliHV24/i/TvnjQsx4u8TC8s/FGiafpGjXVrJBJAt2Z7klhjIZfkxgn36V2VFR7duCi0tNE9b/nb8CXVbtpquvoeY6DF8QfA+kp4ft/Dtp4itLYstpfRagltiMkkB0cZJGe30yetUfAGieOfD/j7V73XtBhnh1qYNPewXsYSDG45VCSzD5gMcEY7165XP8AjK88T2WipJ4K0211G/MwDRXThVEeDkjLLk5x371tHEym3HljeWjeq/WyNFUc04WSv/Xf/gHQU1yyxsUXewBIXOMn0zXlH/CQ/G3/AKE/Rf8Av8v/AMkVe0XXPi7PrdnFrXhbSLfT3mUXMscy7kjz8xGJm5A9jUvCSSvzx/8AAkJ0Wle6+8yfGsXj/wAXppSjwH9k/s6/S8z/AGxbyeZtz8vbGc9efpXd6Nfa94hgvrLxV4V/sW2khKBv7RjufODAhhhB8vHc+tdNRUTxClBQ5Erbb/5kyq8ySSSttv69zy/QNP8AHfw9s20PTdFt/E2lpIzWdwL5LaSFSc7XDjnk549+egF7w14Bv7i61/WPG80Umo69bm1kt7U/JbQEY2AnvjH5dTmvQqKcsVOV3ZJvd9X/AF5A60tbK1/+HPL9Et/iH4H0j/hHrDQrPxBawErZah9tWDy1JyBJG3JwT0B6cZNUvgdFfwyeMG1ArcXg1HbM6EBZJRv3YOB3Pp3rsNa8ADWtWnvj4r8T2Imxm2stR8uFMAD5V2nGcZ+pNa/hvwzpfhPR003RLfyIFYuxJ3NI56sxPUnH9BgDFbzxMHSktOaVr2Xnfvb7kazqx5Glu2n/AF/wDzTxrF4/8XppSjwH9k/s6/S8z/bFvJ5m3Py9sZz15+ld9oGp+INa+1weJvCv9iQ+XhG/tCO583OQRhRxgevrXR0VzzrqcFDkSt6/5mUqvMklFK3r/meX6Bpfjb4c2cujaRodv4m0kTNJaSLfJayxKxyVcOMHn09/oOl8Ny+Nb/XJb7xJbWek6Z5GyLTIpBPL5mc72kAx0yMDj2711dFE8Q53coq769fzt+ApVOa+iu+p5XrT634t+PVno+malf2Oh+HbVLnVPsty8K3EsnzJE20jdkBTg9t3rXqlFFc2ysZPV3CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKz9Q8QaNpM6Q6rq1jZSyDKR3NykbN9AxGatW15a3qO1ncw3Co2xjFIGCtgHBx0OCD+IquWVr2HZpXJqK5fW77TdR17S7G28XWun3tnfLJNYx3S+ZdDBHksgcHnIOCD9K6inKPKk31G1awUVnXviHRdNvEtNR1ewtLmTGyGe5RHbPAwpOTUkWs6XPqE9jDqVpJeW67prdJ1MkQ9WXOQOR19aXLK17C5X2LtFZDeLfDiWSXj+INLW1kcxpOb2MIzDkqGzgkZHFakE8VzAk9tKk0UihkkjYMrA9CCOoocZLdA01uPorN1HxHomkTLFq2safYyMMhLm6SMkfRiK0EdJY1kjZXRgGVlOQQehBpcrSu0DTW46iuW8RHU9L1LTbu21y8MN1qcFu9k8UBiCMcEA+Xv7dd1dTVONoqV9xyVrBRRSEhVJYgADJJ7VBItFcvbeOtHk8QX1pNrGlpaQxRPDP8AakG9m3bhndg4wvTpmugstQs9St/P067gu4d23zIJQ659Mg9aiFSM/hZlCrTm7RZYoqhea9pGnXAg1DVbK1mIyI57hEbHrgnNWJr21t7M3dxcwxWyqGMzyBUAPQ7jxinzR112L5o3tcnoqlb6zpl3OsNrqNpPK0fmqkc6sxT+8AD096I9Z0yWylvItRtHtYTiSdZ1KIfds4FHNHuCnF7Mu0VnSeItEitYrmXWLBLeYkRStdIEkx1wc4OPar0M0VzCs1vIksTjKujBlYexFNST2BSi9Ex9FFFMoKKr3eo2VgYhfXlvbGZtkfnSqm9vQZPJ9qsUCur2CiiigYUVnah4h0bSZ0h1XV7CylcZRLm5SNm+gYjNWbTULO/Dmxu4LkRkBzDIH2kgMAcdOCD9CKrlla9tB2aLFFefXHxT02H4lQaINS0j+x2smllvjdL8kwYjZv3bRwOh55rtNN1rS9ZSR9H1Kzv1jIDtazrKEJ6A7ScVpOjUglKS0epcqcobou0Vk6vr+k6fvs7zXtP0y8ljIi+0XEaspIwGCsRnn864z4a6/r9/4w8T6Pr+tDV49LaJIJhbRwhslsthB3wO5pwoylCU+2vrrbQPZvkc+x6TRRRWBmFFeUeNr3xp4R1TS7tfF/2qy1HVkthZ/wBmQp5UbEnG/knAGM8HvXq9bVKXJGM7pp+vT1SNJw5LO97hRWfqGv6PpMqR6rq1jZSP91Lm5SMt9AxGavRypNGskLrIjDKspyCPY1lytK5Fmtx1FZt74j0TTbtbXUdZ0+0uGxthnukRznp8pOaS38S6FeaidPtNa06e9BKm2iu0aTI6jaDnjBzVckrXsHK7XsadFcN4l8RyXHiLRoPDfjPQLKOG72anaT3cRlnXeo8tQQxDcOMZU5I/DuacqbjFSfUqUHG1+oUVn6lr2j6MyLq+q2NgXGUF1cpFu+m4jNTWuqWF7J5dlfW1w/lrLtimVzsOQGwD0ODg+1Tyyte2hNna5aooqC9v7TTbR7rUbqC0t0xvmnkCIuTgZY8DmpWuiBJt2RPRWVZ+KPD+omUafrmm3RhjMsvkXcb+Wg6scHgD1NNtPFvhzULuO1sPEGl3VxIcJDDexu7nrwAcmr9nPsx8suxr0Vnah4i0TSbhbfVdYsLKZxlY7m6SNmHqAxBq/HKk0ayQusiMMqynII9jUuLSu0KzQ6is/Ute0fRmRdX1WxsC4ygurlIt303EZqa11SwvZPLsr62uH8tZdsUyudhyA2AehwcHpxT5ZWvbQLO1y1RXn1x8U9Nh+JUGiDUtI/sdrJpZb43S/JMGI2b920cDoeea7TTda0vWUkfR9Ss79YyA7Ws6yhCegO0nFaTo1IJSktHqXKnKG6LtFZ+oa/o+kypHqurWNlI/3UublIy30DEZq9HLHNEskTrJGwyrKcgj1BrKzSuyLNDqKyrXxT4fvrlrey13TbmdFZmihvI3ZQOpIBzgd6sadrOmauJDpOpWl8IjtkNtOsmw+h2k4puElugcWt0XaKKKkQUVn6/rVr4d8PX+sag222sYGmk5wSFGcD3PQe5qh4Im1m68H2F54mlV9RvENzIioEWAOdyxAAfwqQuTkkg80b3B6WN+iuA8Uan4003V9JnN3pdlpdxrVtZ/Z7eJppponfB3SPhUyOyoSOzd67+haq/9dP8AMbVnYKK4LShrniPxT4piPirU9Ot9N1Fba3gs4LQqqGCNzkyQOxOXPeuy0yynsLMQ3WpXWpyBiftF0sSuR6YiRFwPpR0T+f3i62LdFFFABRWbf+IdF0y5W11LWLCyuJB8kU9ykbnPTAY5NZPhW8v38QeItOvtSm1GGwngW3lnSJWCvCrnPlooPJ9K0VOTi5dtfxS/UvldrnUUVnaj4h0XR5Vj1fV7CwkcZVbq5SIsPUBiKsy6jZQaeb+e8t47MLvNy8qiML67icY96nlla9ieV9ixRVXTtU0/V7Y3Gk31tfQBihltplkUMOoypIzyPzqGLxBo0+pSafDq9jJexbvMtkuUMibeuVzkY70csrtW2DlZoUVkN4t8OJZJeP4g0tbWRzGk5vYwjMOSobOCRkcVpxXME9stxDNHJA671lRgVZfUHpj3ocZLVoOVokorjbP4k6DN4n1Oxn13Ro7G3hge3uPtsY81n3713FsHG1enTPNdRp+p2GrWv2nSr22vYNxXzbaVZFyOoypIzVTpTh8SKlCUd0WqKztR8Q6Lo8qx6vq9hYSOMqt1cpEWHqAxFXopo7iFJYJFljcbldGBVh6gjrUcrSvbQlprcfRRRSEFFcfa3OreL9T1KTTtan0fS9PuWs4Ws4oZJLqVOJGcyo4CBvlAUA/KxJ5AGh4S1q61S3v7LVTEdU0m7a0umhUqkh2h0kCknAZHU4ycHIzxQtfz+X9NA9PyOgorkoNevtP+KE/h7VZvNs9TtPtmlOUVdjR/LNDkDnHyuCefmYZ4FdbR0TDrYKKpalrWl6MkT6xqVnYLM/lxG6nWISN/dG4jJ9hV2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDkNNsdQsdR1K90BNI1i11K6eZ7ma8aKRCMIYtyxyBwpUgcjHTHGav+FJNMUana6fp/9mXUN4WvrUHIWVlU7xjgqy7SCMe4ByKr6f4Hj0eCSLRtd1exWaZ5pAkkUgZnYscLJGyr1/hA6c5PNbGj6Ja6LDMtsZJJbiQy3FxM26SdzxuY/QAADAAGAAK6Zzg07P8Apd+htOSd7P8ArzMvxn9zQv8AsNWv8zW/dPJHZzPAu+VY2KL6nHArn9Q8IXGpvEbrxRrBWC4W4iVY7QBHU5Uj9xk498+9a+m2FzYLILrV7zUt5G03SQrsx6eXGnX3z0qJcvs0k9fn5Eu2jve3+Zj+B7K0k8C2E7BLqTUrZbi8mkUMbiR13OXz15JGD0Ax0FZvw0tLawbxTaWLl7eHXZUjBbdsAiiGzPov3R9Kk1JPDmi3c1mfGf8AwjyyMZZdPjvbeMZc5YgSKXTdkn5CvJJHPNSeANISw0rV3sYZbKzv9Qkmswy4cReWiB8Nk5JQsNwycgkc10Sfuzn0l/mv60NJfA7vd/5kfgLTbaPU/E+o+XuupdZuIjI3JVAQQq+gyST6n8KseB8QTeJrSPEdra6zKsMY4WJWjjcgDsNzsce5rQ0Dwz/wj8l40er6heLeSvPIlyIcCViNzjZGpzx0zj2o0HwyuhXN/MNUvr46hL5863QhwZCoUsNka44UDHTjpUTqRfNr0Vvlb/gkyknza7szdM1G61KGbUPC/hrTRY3js32i7uvsz3fOPM2pE+Q3YsQSO1O+HIePw3dW7RJAtvqd5EkEbbkhUTthFOB8o6DgcdhVq18HrYQi00/W9VtdOUnbYxSR7EUnO1XKGVR6AOMdsVN4c8K2/hdZ4dNvbtrKSR5Es5fLMcLM247SED+3zMaJTpuMkvlv+PmE5RcWl3/zK/jP7mhf9hq1/ma6Sua1Dwhcam8RuvFGsFYLhbiJVjtAEdTlSP3GTj3z71r6bYXNgsgutXvNS3kbTdJCuzHp5cadffPSspcvs0k/z8vImVrKz/q7L1FFFYmZzunf8lD1z/r0tf5yVvTu6W0jxLvdUJVfU44FZ95oSXOom/tb260+7aMRSS2xQ+YoOQGV1ZTjJwcZ5PNT6fpg0/zGa8vLuWTG+S5mLdPRRhV/4CBmsYxlyuO2+vq2Y01KEmrdbnMeEW1g+G7e6tdK0uZ7xfNuJ5NQdZJpD94uPIPIORjJxjHatPQdL1DTP7UF1DaWtnORJb2trO0qwttO/GUXAJwcAYyTVl/Dqx3Esumaje6YJmLyR2xjZGY9W2yIwUnvtxnvUkOhQ21tcrb3V0lzdAebes4klbHT74KgdeAuBk4FZ+zly2t0t0/Dy9bGVKlKDinrb0/yvr/TZxNpplkvw78LoltGouNQtzKQMFy7EPk9eRwfbjpXTWaLD8Rr9IlEaHTICVUYBw7gcew4qRPCEEegWukrqV95dnOk1vMfK8yMocqPubSM+oJqxPpttY6sdeudTmt/Lt1hnMrRLE6KSQXJXg5bPBFKMHCSk1onf5clvwZnCjKMY6bKPbo3cx/h5YWcel3d9Goe7lvbhJJDyyASthB6DvgdyTV6x/0Px7e2VmAtrNZJdSxqMKkxcrux2LAc+u3Nc/4Ki0u9sn/svXvsWoy3Fw0sdlPEzSr5rbWaN1YdCPmxnGOcYrttP0yDTlkMbSSzTNvmnmbc8h6DJ9h0AwB2FGHV4U7LZfp/Tfn33CguemlHve/9dX1LlFFFdZ3nLeMvDfh3XZ9Ok8RXv2R4ZCtv/pCxeaTjKfN16DpzXUgYGBXPeJ/BWleLJrOXVDcK1mxKeS4XcDjKnIPHA6YPvXQgYGBWVONnLS1395hGDVaUuVa216v19OgUUUjKHUq3IIwa1NzwYeGPEVlr+r6npfh3w/4507ULqSYXk0kc0iDcfkBZhgjoQAenWur+DNzo/l69Z6fpN3o2oR3YkvLC5k3iHIIUIdqkLweCMj1PFXrP4O6Rplr5Gi694j0tSxaQ2Wo+X5pJPLDbjgYHAHAH1rp/DXhLSfCdrLFpMT+ZcP5lxcTSGSWd/wC87HqeT7cn1r1a2KpzpOCd9kt1t31t+B21q0ZxaW/9b6/kec3vhrQj+0NZWB0XT/scmkNK9t9lTy2fc/zFcYJ9+tegalZWnhTwnrF14X0qzs7iO0kmWO1tljDuqErkKBuqLxP4E0vxTeW19PPfafqNqCkV/p0/kzKh6ruweOT27nHU1HoHw/0nQdUOp/adR1LUTGYvteo3bTPsPUdh29KwnWjUpxvJ6K1u+r8yJVIytJu9raehy3wx8GeHda8Bw6vrNjbazqGql5bu6u1Ez79zAgE8qR7YOfwrN+DWm2mj/EDxvp2nPvtbWdI4jnOFDycZ746Z9q6qX4TaMl1PJo+qa5ocNw5ea00u/MMLsep24OPTAwAOBijw98JdF8La8NU0PUtYthuDPaLdjyJAAQA425YDJPJ610SxFOSqe+/eWittrf8A4CKlVi4TXM3f/O53VFFNdd8bJuZdwIypwR9K8k4zzT40f8e/hT/sOwfyNeh6pcTWmj3lzax+bNDA8kcf95gpIH51wt98HLDU/K/tHxZ4ruxDIJYhPqSv5bjoy5Tg+4rpPDfhP/hG5p5P7f1zVvOULt1S989Y8d1GBg121HSdGMVK7V+nex0zcOWNne3+ZxHwo8M6B4k8HnX9ctrbXNW1CeQ3k97GszRsGICANnbxg8evpiqGgXlx4U8TePtE8LO0+m6dYteWkW4yLbT7MlBn/aJ4/wBn1zXYXnwq0aXU577SdQ1jQXuW3XEek3pgSY+rLg/pgc1u+GfCej+EdPa00S18pZG3zSOxeSZvVmPJ/lzwK2qYmm+eV2+b7PRf8N0LlWjq73u9n01v/wAA4T4Y+DPDOufDyDUtVsbfWL7Ut73l3dr5ku/cQQGPKkeoIPesv4E6NpUOqeJnt4re8NjfCK0vWRWcR/OMq/YEAdOtJ4ktPhloWv3+ny+JtY0CR2BvNM015kgkLKDgqI2GCD0Bxz2rY+Cvh6XTtF1u8+x3OnWep3haxin+WRYADsbnkcN1PXGehBPRUm/Y1al3aVrJq3Xp307dDSo2qUm29Wt/mVfi5oek6dN4avNP0uytbqfXYfNngt0R5M5J3MBk88816tdSPDZzSxLvkSNmVT3IHArgL74OWGp+V/aPizxXdiGQSxCfUlfy3HRlynB9xXSeG/Cf/CNzTyf2/rmrecoXbql756x47qMDBrirSpyoxip3av072MKkoNR1u1/mcJ8JPDmi+KPDdx4l8RWltrWrahdSfaHvYxN5W04CBWyF4wfXBA6AV0fhfwFonhDx5qd7pN7FE1/bAx6UMZhTcNzjLElSw9ABnHpUl98LtHn1K4vtJ1DWNAmum33H9kXpgWVvUrgj8sdav+G/AWkeGb+bUYHvL7Up08uS/wBQuDNMy9cZPA6DoKuriIycpRm0mtrfh2sOpUUuZqT16fP9DpagvbC01O0e11G1gu7d8b4Z4w6Ng5GVPB5qeivO21OZNp3R4bo82kfCzxz4q0fV7G3NjcWj3thJJGm+WLGTbhjyQcFQp4yh9at/D7wz/Y/w11Xxk+m2ja3dxT31iBbIfsyhG2CMY+XPJwOxArvPGvw60Xx41k2stcxvZltjWzqpYNjKsSpyOPauohhjt7eOCBFjijUIiKMBVAwAK9Kpi1Klp8TspfL/AD6nXPEJpNbvV/L/ADPnv4e2eoah4fm1R/h1beLZ76ZzPqV7qkG5mz0COCUI/M5z0xXZ/DLRfFXhe412K+0WTTdGkQ3FhZy3yXPkyc/IGU5wc9SOw75ztT/CbRlvprnQ9T1rw9553Sw6RfeRG59duDj6DA9q1/DPgbSfC13c3li95c3t0oWa6vLlpZHAOcHPHX2rSvi6dSMuXr0s/wD5K2nkiqteMk0ur8/8/wAjh/hJ4c0XxR4buPEviK0tta1bULqT7Q97GJvK2nAQK2QvGD64IHQCuj8L+AtE8I+PNTvNJvYomv7YFNKGMwpuG5xliSpYegAzj0qS++F2jz6lcX2k6hrGgTXTb7j+yL0wLK3qVwR+WOtX/DfgLSPDN/NqMD3l9qU6eXJf6hcGaZl64yeB0HQVlVxEZ80ozaTW1vw7WM6lRS5mpPXp8/0OEvfDWhH9oaysDoun/Y5NIaV7b7Knls+5/mK4wT79a9IbTbDw3omoTeHtIs7WRYXlEVrbrEJXVSVB2gZ9KpeJ/Aml+Kby2vp577T9RtQUiv8ATp/JmVD1Xdg8cnt3OOppnh/wBpXh/VTqoutS1LUvLMf2zUbxppAp6jsOw7VnUqxqU43k7pWt31fmKdSMrNvtp6HIfCjwzoHiTwedf1y2ttc1bUJ5DeT3sazNGwYgIA2dvGDx6+mKk+He3Rfih4p8L6PK0uhWypPFHvLrbSnG5AT7lhj/AGfXNbt58KtGl1Oe+0nUNY0F7lt1xHpN6YEmPqy4P6YHNbPh/wAHaP4X0ebT9Ehe2WcEyzhyZpGIxuLnnPp2HYVrUxEJKbu3zLRdF/w3QqdWLUtW7/hr/SPLPE/gXRNZ+PGn6MLWOxsJNNFzPDZRrEJiHckHaB1wMnrxXpmkeAtA0DxF/bGi2n2GU2n2RoYDtiZcg7iuOW4HJP681zzfBuwbU11FvFnis3yp5a3R1JfNCf3Q+zOOTxmuu8OeH/8AhHbGS2/tfVNV8yTzPN1O586ReANoOBgcZx6k0q9dOnGMJvRWt3CtV5kkpdEjXooorzjkPOvjvn/hUeoZ/wBT9otfP9PL+0JnPtXoi42jbjGOMVQ1/RbXxF4ev9H1Bd1tfQNDJxyAwxke46j3FUfBUOsWnhCxsvEkYXULNTbPIrhhOqHakowTjeoDYPIJIoWzXz/T8LfiD6P+v6f6IzPiN/x7eG/+xjsf/RldjXJ634Gm164jku/FmuRxwXa3lvBFHZhIZEbKYJtyxA9GJz3zW7pOnXWnQOl5rN7qzM2RJeJArIMdB5UaDH1BPvSjon63/BL9By3Xp+rMy48AeFLzULu91DQbK+nvJRNMb2Pz1L7Qu5VfKqdqqPlAziqHgd3tdY8T6HE7SadpV9HHZ75C5iV4UkaLJJOFZjgHoDjoAKtt4Jjt55n0LXNW0SK4dnltrKSJoizHJKrNG/l5JJOzbzz15rV0LQdP8OaYLHSomSMu0sjyOZJJpGOWd3YksxPUk01p93+QmaNV9Qllg026mtk3zRwu0a/3mAJA/OrFFA07O5z3gu0tm8GWFxtSaXULZLi7mYBmuJHXLlj35JHsOBwKxfBFnbaV4m8aW2lLmGG7h8qIHIQ+Qp2D0AJwB0AGB0rdbwsIpJP7L1jUtLt5WLva2rRGPcTlivmRsUyST8hXk560zQvBtl4c1W8vNKu7xI70q09q7I8buFA3livmFjgkkvySSa63Ui1N3+JbfNP/AIb9DXmST13Ifh6Fm8F2WpSHzL3UU+03k5HzSSnqCf8AZ+6B2Cgdqj0ZRbePNf0m1Uf2cbaC5aJR8kU0hkDgDtuChiPUk9zV+TwwI7maXSNW1DSFuJDLLDaCFo2c9W2yxuFJ6nbjJyTknNXtL0i10iB47UOzzP5k80rF5JnxgszHqcAD0AAAAAAqZzi3KS69O3/DdBOS1s9/8zhrLxFqHh/wraaXpdsl1daSbhbpJQSRaWz7TtwfvspTbnPfg4re8NTxax4p13WoGEkH7ixtpB0ZETzGI/4FMR+Falj4c0/T9c1PVoEY3Wp7PPLkEAIuAF44B6n3pNB8OWXhvQzpWkNLFDvkdXJDMpdieMjHy5AGQeAM5qp1abTa3f66v7tkVKUWny9fy3/BmD4C022j1PxPqPl7rqXWbiIyNyVQEEKvoMkk+p/CrPgYCG48S2cQCW1rrMqwRKMLGrRxuQB2G52OPUmr+geGf+EfkvGj1fULxbyV55EuRDgSsRucbI1OeOmce1LoHhkaBdX86arfXpv5vPmW6EOPMwFLDZGuOFAx046UTqRblr0Vvlb/AIIpyT5td2Z+kf8AJU/E3/XjY/8AtauolZkhdo13OFJVfU46Vk3/AIbjutWOqWWoXul3zxCGWazMZ85FJKhlkR1JGTg4zyRnFWdK0gaZ5rNf319NLjfLdzl849EGEXr/AAqM9+grKo4yXNfovw0Jk03zen4JIyPh6Fm8F2WpSHzL3UU+03k5HzSSnqCf9n7oHYKB2pmhk2fj7XdMsxiwFvb3ZiUfLDPIZA4A7bgoYj1JPc1ek8MCO5ml0jVtQ0hbiQyyw2ghaNnPVtssbhSep24yck5JzV7S9ItdIgeO1Ds8z+ZPNKxeSZ8YLMx6nAA9AAAAAAKuU4tykuvTt/w3QcpLXzL1FFFcxkch8OCyaPq1tKuya31u+V0J5G6dnX81dT9CKTwdmXxh42uUTEL6pFGrjozJaxBvyPB9607/AMLLc6pLqGm6tqGjXNwFF01j5RFxtGFLLLG43AcbgA2AATgDGhpOk2miabHY6fGUhTJJZizOxOWdmPLMSSSTySaF59rflr+A3u7dXf8AM4X4jf8AJSPhx9nz9r/tOfG3GfK8k+Z74xjP/wCqvR65KDQb7UPihP4h1WHyrPTLT7HpSF1be0nzTTYB4z8qAHn5WOORXW0L4fx/r7r/ADE/i/D9f1t8jzH4uaN4C8S6n4d0jxxqN7a30k7f2dDZI7PMWKhlO1HABO3k49j1r0yONYo1jjGFQBVHoBXFL4EmvPjFL4z1maCaCzs0tdJt1LFoiQfMkYEAA5ZgMZ4OeDiu3oWkbeoPWXp/TCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArn/GXg3T/ABxoqaZq011DCkwmDWsgVtwBHOQQRye1dBRVRlKElKO6KjJxd47nk3/DOnhL/oI61/3/AIv/AI1V7RfgT4Z0PW7PVLS+1d57OZZo1knj2kqcjO2MHH416XRXU8diWrObNXiKrVnIKKKK4zAKKKKACiiigAooooAK5/xl4N0/xxoqaZq011DCkwmDWsgVtwBHOQQRye1dBRVRlKElKO6KjJxd47nk3/DOnhL/AKCOtf8Af+L/AONVe0X4E+GdD1uz1S0vtXeezmWaNZJ49pKnIztjBx+Nel0V1PHYlqzmzV4iq1ZyCiiiuMwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKpXF/cQztHHpN5cKOkkTwhT/31ID+lLa3txcTbJdLu7VcZ8yVoiv0+Vyf0oAuUVSuL+4hnaOPSby4UdJInhCn/vqQH9KW1vbi4m2S6Xd2q4z5krRFfp8rk/pQBcooooAzr/VzY38Foun3VzJcAmMwmPBxyR8zjGB/Okg1pJNQSyu7S4sZ5VLRLcBMS46hWRmGR1xnNQ/6/wAaeq2lj+TSP/hHSa8DJfaNDHjzTfBwfRVRi36cfjQun9dQfX+uhs0Vjapc2Ul4IJb++3Rj95bWKux56FjGpdfzFRaJcCTWL2C0e7aziijO28Eu9ZCWzjzfmxgL7elAGreX8VibcSq7G4mWFAgz8xycn2wDVmud1fTob3xTpsbvc8rLPIEupEACqFBADAKcv1GP1rXtNNgspC8L3TEjBE13LKPydiPxo6AW6KxtUubKS8EEt/fbox+8trFXY89CxjUuv5iotEuBJrF7BaPdtZxRRnbeCXeshLZx5vzYwF9vSgDeormrKxuLvX9UVb+6TTo3SPy1uXZmfbubDEkoPmHC46dsYNpon0nWrCO2nuJLa8Z4pIp5ml2sELBgzEkfdIIzjmgDborG1S5spLwQS399ujH7y2sVdjz0LGNS6/mKi0S4EmsXsFo921nFFGdt4Jd6yEtnHm/NjAX29KANW8v4rE24lV2NxMsKBBn5jk5PtgGrNc7q+nQ3vinTY3e55WWeQJdSIAFUKCAGAU5fqMfrWvaabBZSF4XumJGCJruWUfk7EfjR0AgudTnt9es7A20bRXQcrKJjuXauTlNuMZIH3u9aVc3cW82p+N3WOZoYbKzCSMn3yZGzgH+HhOSOfTHWrWnq9p4ku7GGeaW1W2jlKzytKY3LMOGYk4IXoT9KEDNqiiigAorE1d7n+1IY51vBppjJZ7IMWMmejbPnAx/d79aj0mGOTW3uNP1C4ktI4DHJaXE8rOkpYEMVk5Hyjv8Ah3oQG+ThSQM+w71U0uS+l02OTVoo4Lpsl4ozkJycDOTk4xVLxLHGmjXV40lykkELeX5NzJF83bIVgDzjrWnaRPBZQRSu0jxxqrOxyWIGCSaAJaKxolk1y4nke4lisoZWhjjglMbSMpwzMy4OM5AAI6ZOc8VrPT5D4luIJL+9mtbSGN4o2uXG1mZiQxBBcfKPvZ60AdFRXNXVrc3/AIxkhtb+6traO1VrkRysdxZjgKCcIcLyQAfzzVqxR7PxPPZQ3E8lr9kWVknlaUo5YgYZiTyAeM9qFqD0NuisbVLmykvBBLf326MfvLaxV2PPQsY1Lr+YqLRLgSaxewWj3bWcUUZ23gl3rIS2ceb82MBfb0oA17t7tI1NjBDM+fmE0xjAH1Ct/KodIv31PSobySFYTLkhFfeMAkAg4GcgZ6d6XWLn7Hot7cZwY4HYfXHH60ulWv2LR7O1IwYYEQ/UKAaO4FuiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMK2g1y31C9ujaafIbpkIH21xsVVwB/quecn8auWWnTLetf6jKs10y7EVBiOBOpVc8kk9WPXA4GMVo0UAYdjZaxptu9rbpYyK0ryfapJH3NuYnLIF5POPv9u1SaFYajYzXp1JoJ2uJjL9ojchm4CgFNoCgADuf61sUUAZd5Z3q60mo2KQTH7OYGinlaPHzBtwYK3pjGPTmrVr9vaQtei2jTHEcJZyD67zj8tv41aooAw7Gy1jTbd7W3SxkVpXk+1SSPubcxOWQLyecff7dqk0Kw1GxmvTqTQTtcTGX7RG5DNwFAKbQFAAHc/wBa2KiubaO7hMUrSqpOcxStG3/fSkGjYNzm/D8Wpxw3OoWP2e4i1C5lmMM8jR7DvKghgrZBULxj8a2bWxna8+26lIkkyqVijiB2Qg9cE8sTxluPYDnL9O0m00qPZZCZU2hQj3EkiqPYMxA/CrtAGHY2Wsabbva26WMitK8n2qSR9zbmJyyBeTzj7/btUmhWGo2M16dSaCdriYy/aI3IZuAoBTaAoAA7n+tbFFAGXeWd6utJqNikEx+zmBop5Wjx8wbcGCt6Yxj05qzbnUTve6W1T5flhjZm+b3cgcf8B/wq3RR0Ax9Is9Rt77ULi/itgbuQSKYrhn24UKF5QccE59+lGl2mpRaxfXeoRWqpdBNvkzs5QKMBcFFz1Y5z36VsUUAFFFFAGJbQ6/Zz3Rb7HeRzTtJGJLl0MSk4Cj5GyMAenJP1q1p+nSw31xf3siPdXCqhWIEJGi5wozyeSTk4z6CtGigDC1a31rUrQ2wtLBIzKjkm9fLKrhsY8rjOMf41qWj3rh/t9vbwkY2+TO0mfXOUXH61ZooAxoLLU9LluI9PS1uLaaVpk8+Zo2iZjlhwrbhnkdOuKi8NxzltWuppFuJZrxlWQDarBFC4HXADBh36VoXGj2t1M0kz3RL/AHlW8mVD/wABDBf0q5FEkMSxwoscaDCqowAPQCgDK0m01GHVL+61CK1RboqV8mdnKhVAC4KD3OffpRptnqMWuX97fR2ypcrGqeVOzlAgIA5Qdck/5zWvRQBh2NlrGm272tuljIrSvJ9qkkfc25icsgXk84+/27VJoVhqNjNenUmgna4mMv2iNyGbgKAU2gKAAO5/rWxRQBhavba1qVlJaJaWCRu6ksbx8soYHGPK4yBjrxnvWpaSXz7/ALfb28OMbfJuGkz65yi4/WrNFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRWPd+KdJs9QksnluJ7mLHmx2lnNc+VkZG/wAtGCcHPzY45q1pOtafrkE02lXK3EcMxgkZVI2uACV5A5GR/LtV8k0r20KcZJXaL1Fcn4in0HUtd0i31STU7e4sdRjktmWxmWGSbBCqZTGUIOezD611lEo8sU31CUbWCisW78W6PZ3UtvJPPI0B2zNb2c0yQn0d0Uqh9dxGO9S6b4m0rWLu5t9MuJLo2v8ArZI7eQxZwGwJNuxjhlOAScGj2c7Xs7Byytexq0Vz0XjrQZ1P2ee7mkV2R7eLTrh5oyvB3RCPeoycZIAzxWxp2o2mrWEd7p06z28mdrr6g4IIPIIIIIPIIxRKnOKvJNA4yW6LNFYl14v0a0uZoDNcXMkBImFlZzXIiI6hjEjBSPQ4rTsb+11OxhvdPuI7m2mXdHLG2VYUOEkrtaA4yW6LFFcj4osVsdS0nULS71COe41a3jlUahOYmRiQV8ovswcdNtddRKKUVJBJWsFFFFQSFFZ11r1haXDwMbiaWMgSLa2ks/lkjIDeWrbTjnBxVu0vLe/txPaSrLGSRkdiOCCOoIPUHkVKknsyeaLdr6k1FFFUUFFZX/CSaWt1PbzTyW8kEbSubm3khXYrBSwZ1AYZI6E9amsNasdSnkgtZJBNGoZopoXifaejBXAJX3HFQpxezI9pC9rl+ismfxNpkF3LbeZcTywnEotbSacRn0YxqQD7E5q/ZXttqNolzYzpPC/3XQ5B/wDr+1NSjLZgpwb5U9Seisq48SaZbXMkDyzSNCcStBbSypEfR2RSq/iRipNP17TtVu5rfTp2uGg+/IkL+V0BwJMbCcMDgE8GhTi3ZMXtIXtdXNGiuR8RQ6ta32m3b63N5MmqwRra28YiTYz4IY8s3HuAfSuupQnz30tZ2/BP9Rqd5ONtv+D/AJBRRRVlhRWVrPibR/D8lsmsXyWrXTbYgysdx/AHA5HJ4rV60lJPYlSi5OKeqCiiimUFFctrXxL8IeHtRNjq2uQxXSnDxojylD6NsU7T7HFamheJtG8TQzy6Ffx3sduwSRowcKSoYDkc8H88jqDWjpVFHncXbvYtwkldo1aK8iuvjTpUXxMhhXWlHhtbJlnP2N8i43H/AGN/QAccc16F4b8YaF4vhnl8O332xLdgsp8l49pPI++oz07VrUwtanFSlF29PzKnRqU9ZI26K5DxB8SPB2k3M+k6p4gW2uipjf7Oru0RPH3kUhWHv0rlfhHqU9z4y8V2aa/f63p1qYRaTXl2Z8qS/IPTn2A6URw03TlUaskr7b62H7GSpub0ses0UUVzGIUV4/8AEPSb/wAK6poupad4p8ROdQ1mOKW2m1FjCqMSxVVAGBxjBJ4r2Ct6lJQhGad73/A0nBRs073CiuY1v4keEfDt+bLV9bghuVOGiRHlKH0bYDt/HFbmmatYa1YJe6TeQ3ls/CywuGGe49j7VDpzjHmadu5LhKKu0W6K5TVfif4N0XVG0/Uddhjukba6JG8gQ+jMqkA/U8U7SfiV4S13XF0jSdYW6vmLBY0gk2ttBJw5XaRgHnPPaq9hW5ebldvRlOnNK7TsdTRXlvibxp4c1jxdo9tY+ObrSp9Nv9lxZQWlxtvG3qPLYjC4ypGTkfMfx9SoqUZU4xcuvk/6YTpuFrhRXM698RvCXhm9NnrOtQwXI+9EiPKyf7wQHb+OKt6J4y8PeJLp7bQ9UhvZo4VmdYs/KhOBnI656jqOMjkUvY1OXn5XbvYTpzSu1obdFFUNb1vT/DukzanrNx9ms4ceZLsZ8ZIA4UE9SO1ZpNuyJScnZF+iuW0f4leEtfa6XSdW+0Gzt2uZ/wDRpV2Rr1b5lGfoOai0j4qeDdd1aDTdK1jz7u4YrFH9lmXccZ6sgA4Hc1t9Xra+49PJl+znr7r0OuorldZ+Jvg7QNSaw1TXIY7pTh440eXYc4wxRSFPscGt/TNWsNasEvdJvIby2fhZYXDDPcex9qiVKpGPM4u3oS4SirtFuiuZ174jeEvDN6bPWdahguR96JEeVk/3ggO38cVb0Txl4e8SXT22h6pDezRwrM6xZ+VCcDOR1z1HUcZHIp+xqcvPyu3e2g3TmldrQ26K8iuvjTpUXxMhhXWlHhtbJlnP2N8i43H/AGN/QAccc16F4b8YaF4vhnl8O332xLdgsp8l49pPI++oz07VpUwtanFSlF29PzKnRqU9ZI26K5jW/iR4R8O35stX1uCG5U4aJEeUofRtgO38cVuaZq1hrVgl7pN5DeWz/dlhcMM9x7H2rF05xjzNO3chwlFXaLdFcdbfFjwPdXcltHr8KSRKzP50UkSjb1+Z1Az7Zye1aXh3xx4c8WTTw+H9Uju5YBmSPYyMB6gMASPccVcqFWKu4v7hypzjrJNG/RRRWJAUVj+LvEVv4S8I6lrt3gx2MDSBT/G/RV/FiB+NQeCLLU7HwbYLr95NeapMn2i7kmYnbJId7Ivoq52gDgACha3B6W8zforkNO+H1tbWAGsa5r1/db3eS5XXL2BWBcsBsWfaoAIXj0zS/DRZX8JNevc3dxBfXk9xafa7qS4dLcuViG+RmbBRVbkn7xoWoM66iiigAorGu/FekWtzLbPLczPCdsxtbOadYT6O8aEIfqRisXwPcxy694lhsdQuL7ToprY2jTXklyArwKx2u7McEknrWqpScXJq1lf8Uv1L5HZtnZ0Vk3nifTLK7ktna6uJoiBKllYzXPlEgEBvKRtpwQcHBwanXWrCTSH1OGZp7WMHc0ETyMCDhhsUFsg5BGMjByKnkklewuWXYv0VR0fWbPXtNS/0xpntpOY3lt5Id4IBDAOoJUgjBHBqCHxLps+uTaPGbr7dChkeNrGZVCZI3Bym0gkEAg84OM0ckrtW2DlfY1aK56Lx1oM6n7PPdzSK7I9vFp1w80ZXg7ohHvUZOMkAZ4rXsNTs9U05L7T5xcW0gJV0B7EgjHUEEEEdQRiiVOcVeSaBxkt0WqK4iw8eRyeMtXtJ49Uayht7Z7eNdFui6M3mbyVEW4A4XG4YODjvXW6fqEOp2vn2yXKJuK4ubWSBsj/ZkVWx74xVTpTh8SHKEoPX+upaorJvPE+mWV3JbO11cTRECVLKxmufKJAIDeUjbTgg4ODg1esb+11K0W5sZlmhYldy9iDggjqCCCCDyDUOEkrtaCcWldosUUUVJIUVxOmW7+N7/VNQv77UINPtbySysbaxvJrT/VHbJK7Rspcs4YAHKgKOMkk6HgzVLq4GraPqdy13eaLem1a5dQGnjKLJG7YAG7a4BwBypOBmha/df5f0wen5HTUVxX9q3Wg/F1dKvLqWbTvEdq09ksshbyLmEASIueishVsDjIbjmu1o6Jh1sFFYHinxx4c8FR2j+J9UjsBeOY4NyO5cjGeFBwBkZJ4Ga3lYOoZCGUjIIOQRR5hsLRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcjo9pNO95f+DtctRYXl5LLPFd2DzFZw22TaRJGQMr0IPqDjFaHhrU0vLnVrOS0gtr6xu9l21sP3c7sisJAeuSpXIOSCMZOASyHwLoFsH+w21xZGSRpJGs76eBpGYkksUcFuSeucdBxWvp2mWekWYtdOgWCLcXIGSWYnJZieWJPUnJNdE5wadrvtovz6ms5Rd7GL4z+5oX/Yatf5mt+6Eps5hbY87y28vP97HH61iXXgjRr11a6fVJSsglQNrN3hHHIZR5uAR2x0rS03SLbSVkFrJeSeYQW+1X01zjHp5jtjr2xmok4ciSbv6enmJuOjXT/My/AH2f/hAdH+y/8+y+du+953/LXd/teZvz75rI+Gf2Dd4r/sjZ9k/t+bZ5f3c+XHux7bs4xxVvXLTw1FqU63tjrPmS/POmn298YZye7iAeW5PQ7s+hqx4O0V7HTtUkmtDYJqd49xHaK2xoItiRovy/dO1AcA/LnGeK6JSTjOevvf5p/Mt2UHvq/wDP7yv4CtoYp/E9xHEqzTa7ceY4HLBcAAn0GT+Z9ad4McJqHi0E4RNbkIHYZhiJ/Uk/jWro/hjTNBkuH00XaG4YtKJb6eYMx6th3I3HH3uvvS6P4Z0zQZ7mbTVule6bfOZr2abe2ANxEjsN2ABnrgAVE6kG5b6pL7refkKU4vm82Zek6n4i8TaZFq2mT6Zptjcgvbx3FpJcyNHn5WYrLGFJHO0A4z1NM+G8nmeHb1vNhmB1a9IktxiNv37HKjJwp6jk/WtAeDNDWRzHbTxxSMXe1jvJkt2JOTmEOIzk9Rt5qxpPhvTNCmnk0qGW3E7M7wi5laEFm3ErGWKJz/dAolUp8sox67aL8wlKLi4rv/n/AJlDxn9zQv8AsNWv8zXSVz914I0a9dWun1SUrIJUDazd4RxyGUebgEdsdK0tN0i20lZBayXknmEFvtV9Nc4x6eY7Y69sZrOThyJJu/p6eZEnFpWL1Nk3eU/l/f2nbn1p1FYNXViDn/A5U+D7PJJnG77Vu+9524+Zu753ZpNMJPjvWvspzbCCDzsfd8/5v12bM/8AAav3Wgafd3L3DLcQyyY8x7W6lgMmBgFvLZd3HHOat2dnb2FstvZwrDEvIVR1J6k+pPcnk1nGMrxv0/yt/XyOeNOSUYdF16/13J6KKK1Og5u8s7e7+I1g1zEshg06WSPd0VvMQA49eTW/PGfLkkgVftHllUYjn2GfTNZTeEtLe6+0s2o+ftKCQapchgpOSoPmcDIHHTitOysorC38mBp2XJOZ53mb/vpyT+tYQhLlcZaXvt5/LsYwUlOUmlr+iS7eRyng+HW38K2f2TUtNi2qVljk02RnSUE7w588ZbdnJwM9a0dK025sL3WXbUrS5u7oJKbe2gMIifaQHKl2OWwOeM7avXXh3Tbu7e6aOaCeT/WSWt1LbmT/AHvLZd345qzYabZ6ZC0dhbpCHbc5Ayzt/eZjyx9zk0lSb0enzZnTouDit7eb/LYzvBvkjwdpvkdfJHnZ+95v/LTd/tb92fes3wH9j8zxF/Zuz7N/a0mzZ93OxM49s5qxq1toUd/KLq01TzJfmlWygvPKmJH8QiGxiRwc59DU/hTTXsLa+me1+xLe3RnitsAeVHtVVBA4BwucDpnHaiN5VU9NE1p6r7ttiFFqUIaPlfz2a+Qzxh/qNH/7C9r/AOh10NY954V0zUJvNuzfSN5olUf2lcBUcHIKqHwuO2AMVesdOh06Nkt3uXDHJNxdSTn8C7Ej6CrpxknK/V3/AAS7eR0JT9o5NK1u/r5eZaooorU1OW8Zf8If5+nf8Jh5PmeYfsm/fnPGc7f4emd3FdSOnHSsrWfDOj+IJLZ9YsUumtW3RFmYbT+BGRwODxWr0rOEWnK6W/T9fMxjGSqyk0rO3r8/0CgkAEk4A6k0UEAggjIPUGtDY8R0PQvER1DVtX+FHirSb7Tb27klnhu4SJA5JOw5QnHPByueuK6H4Paql1L4isJ9FtNM1K1vA969i5aGZ2yOPmYKRtPAOOeAOa2JvhB4EniSN/D0QEecFJpUY5JPJDAnr36DA6AV02j6Hpnh+wWy0WxhsrdTnZEuMn1J6k+55r0q2Kpzpyirtu3RJ6d2nr9x11q0ZxaW7+X323OAv2WP9pbTPMYLv0Vgu443Hc/ArsfEmqhdG1Wx0i+g/tsWM0lvbJKvnbghwQmc9cdvSn+I/B+geLYYovEOmx3ghOY2LMjpnqAykHB9M4qPQPA/hrwvIZNC0e3tZSNvnYLyY9N7Etj2zWEqlKcI3vdK22m78/0IdSDal1VtOmhy/wAGYtEb4ZQvafZ5Z5d/9ps2CxkyciTPbb0zxjnvWF8Gk02P4g+N00ModPE6fZzGQV275Pu4/h9PbFdtqvwu8F61qT3+oaDA9y7bneOR4g7ZySQjAEnuSOarnwL4A8K6nF4gls7PSZ4pMx3Et40UauQRgKXCdM8YroeIpSdR3d59Lba3769vIt1IOM4q95f537/j+B2tFYX/AAnPhL/oaNF/8GEX/wAVT4fFvhjUZls7bxDpNzLP+7WGK+jZnJ7ABsk/SuD2VT+V/cc/JLqjjPjR/wAe/hT/ALDsH8jXoeqG6XR7w6eM3YgcwA932nb+uK44/BXwATzoH/k5cf8AxdbfhvwL4c8ITTy+HdO+xvcKFlPnySbgOR99jjr2roqToulGEW7q/RdbeZrKVO0eW+nl537nJfA46Q3geQw7Dq5mk/tXzf8AXF9xxvzzjHTtnPfNYXh5pf8AhL/iIngLnTfsJMH2YfuxebOPLxxndvxj27Yr0HWvhr4Q8Q6gb7VtDgluWOWkjd4i59W2Ebj7nNbmlaPp2h2CWWj2UNnbJyI4UCjPqfU+55rSeJptzmr3l0ey/wA/LRFOtFNta3d9fW/z7HBfB7/hHf8AhVMflfZfuv8A2r523O7Jz5me23pnjFZPwEFkJvFg0kk2P29fsxOcmP59vXnpjrU/i/TvBx8U3Lah8NvEOp3SMGa706xfyJmIBzlJFDdcEkdc1rfCfwneaHpGr3WraemmtrF20yWCtn7PDztQ46H5jx2GOh4HRUnF0qlS79+2jt3v31+5WNKnKqcnd+80/wA/66FX40f8e/hT/sOwfyNekXRlFnMbb/XeW3l5H8WOP1riT8FfABPOgf8Ak5cf/F1t+G/AvhzwhNPL4d077G9woWU+fJJuA5H32OOvauOpKi6ShFu6v0XW3mYzlT5Y8t9PLz9TjvgUunN4Vu5zsOvSXcv9pmT/AF+7ccBs8gY59M7u+a3tF0nwhpHxK1NtHuUTW722D3FjER5caAgFgFXCsTgkE5745q3rnw38I+I703msaJBNcscvLG7xM59WKEbvxqTT9E8I/D+yaa1h0/RYZCI2uJ5Qpc9Qpkc5PTpmrqVoVJSnFu8unT0vfb5DnOM3JxbvLp87nSUVhf8ACc+Ev+ho0X/wYRf/ABVS23jDw1e3UdtZ+ItJuJ5W2xxRX0bM59AA2Sa5PZVP5X9xhyS7HlU2uD4O+O/ENpLH/wASjVbZ9Q06Pnb9oA+5wOMtkewCVt+BPDuqaR8JNW1SIyP4i1u3mvd4+/vZGMYHvzu+rV3HiLwfoPixbYeIdPW8FqxaHdI67ScZ+6RkHA4PHFbKgKoVQAAMADtXXUxUZUkkvedr+dtv+D6HTOumk0tdG/O39XfmeCfCNPFb+FJT4S/4RJ/Mlf7X/aH2g3ROekm3jGOmOOfXNdN8OfDuq+Hdf8SbtS8PlrqLzf7M0i4ZxbzAnafLYZReSOvoOwrqtY+F/g3XtQa91PQoXuH5d4pJId59SEYAn3PNamg+EtB8MK40HS7eyMgw7ouXYehY5JHtmta+MhUU3HRy6W/W/wCg6leMk7dXfbz9ThvgUunN4Vu5zsOvSXcv9pmT/X7txwGzyBjn0zu75re0XSfCGkfErU20e5RNbvbYPcWMRHlxoCAWAVcKxOCQTnvjmreufDfwj4jvTeaxokE1yxy8sbvEzn1YoRu/Gr/h/wAIaB4VjddA0uCzLjDuoLOw9C7EsR+NY1a8JylNNpy6dPvvt8jOpUjLmab1/wAzir9lj/aW0zzGC79FYLuONx3PwK7rU9ViEN5YadeWzawLWSSC181fMLBeDsznGcVD4j8H6B4thii8Q6bHeCE5jYsyOmeoDKQcH0zio9A8D+GvC8hk0LR7e1lI2+dgvJj03sS2PbNZzqUpwje90reW763/AEFKcHaXVW9NDkPgcdIbwPIYdh1czSf2r5v+uL7jjfnnGOnbOe+aq/Dlrb/hbXi9PDO0+H9sZPkj9yLjjOzHHXf09u2K67Wvhr4Q8Q6gb7VtDgluWOWkjd4i59W2Ebj7nNbNhoOl6XpB0vTbGG1smUq0MK7QcjBJI5JI79a2qYinJzmr3l06L/O3TRWKlUg1K1/e/DW/z/A8x8UaDp3iL9orS7PWLcXNsmlCbymPysyu5AI7j2716ZF4e0mDW11eCwhivlthaLKg24iByFwOOw7Z7dK5b/hSvw//AOgB/wCTlx/8XXSeHPCujeErGSz8P2f2SCWTzXTzXky2AM5Yk9AKmtWhKEYwk9Fbay8+oVakZJcreyX9amvRRRXCcx558dY3b4R6jIqlkgntppQBn5FnQtx9K9BjkSWNZI2DI4DKwPBB6GoNS0+21bS7rT76Pzba7haGVD/ErDBH5GszwbpOpaD4Ts9J1e5iu5bEGCKeMkmSFSREWyB8+zaD2yDzQtmvn+j/ACQPo/l/l+v4Ff4gX09l4JvksTi9vtlhanGcSzsIlOO+N+78K29OsYdL0u1sLUbYLWFIYweyqAB+gpL3TLTUZLR72HzWs5xcQZYgJIFKhsA84DHrkd+oFWqFs/6/rqD6f1/WyCq+oef/AGbdfYv+PjyX8r/fwcfrirFFA07O5g+B/J/4QXSPs/8Az6p5vr5uP3m7PO7fuznnOc1heC/sn/CVeOf7F8vZ9vjxsxt83yRv/wDH92ffNdFdeE9Iu7qW4aK4heY7pha3s1ukx9XSN1Vj7kHNO07wto+kalLfaXataSyoqOkM8ixEKoVf3W7ZkAAZ25rqdSD53r73+affyNVKKT8zP+HRU+AtOySbkK32zd98XG4+bu/2t+7OaZo/zfEfxGLT5rL7PbC4x937Th8/8C8vy8+22tO88L6Xe3kl06XVvPLgyvZXs1sZSBgF/KddxAAGTnir9hYWumWaWthAkEKZIRB1JOST6knkk8k8mplUi3KS3l/w4nJa26/53POrXU9YsdJ/4R7w46i90N7iWdCocyQRSHyYcEcGRWABGOFOCK6Dwbew6/qut+IbZg9vcyQ21s3fyo4w3/ocj10NrpVjZ6je39rbrHdXxQ3MgJzIVXaufoPSm6fo1hpWmNp+m2/2a1LSNsidhguxZiDnI5Y9Dx2xgVU60JRdlq/+Hf47DlOLTsv63/PY5/wFbQxT+J7iOJVmm1248xwOWC4ABPoMn8z60/wUcal4sQcKuuPgdhmGIn8ySfxrU0fwxpmgyXD6aLtDcMWlEt9PMGY9Ww7kbjj73X3pdH8M6ZoM9zNpq3SvdNvnM17NNvbAG4iR2G7AAz1wAKJVINy31SX3W8/IJTT5vNmVpH/JU/E3/XjY/wDtauol3+S/k48zadufXHFZ2peHNM1a8ju7qKVLqNPLW4tbmS3l2ZztLxsrFc84JxmpNK0LTdF806darHJNjzZmZpJZcdN0jEs2MnqT1NZzlGav1svw07/oTKSb5l5fgkjI+HRU+AtOySbkK32zd98XG4+bu/2t+7OaZoxJ+JHiL7Gc2f2e28/H3ftWGz/wLy/Lz7ba07zwvpd7eSXTpdW88uDK9lezWxlIGAX8p13EAAZOeKv2Fha6ZZpa2ECQQpkhEHUk5JPqSeSTyTyaqVSLcpLeX/Djclrbr/ncsUUUVzmRyHw83W1nrem3GFubPWrsyIOoWWQzIfoUkU0eC91z4k8Y6kmDbXGqrFC4/j8mCONyPYOrL9VNa+qeFtK1i8W7u47mK5CCMzWd7Nau6AkhXaJ1LqCTgNkDJ9a0bKyttNsYbOwgjt7aBAkUUa4VFHQAULT7rflr+A3u7dXf8zgPiIrXPxI+HdpbgtcDUp7g4J+WJIvnJ9uRXo1c1Z+Grh/iFfeJtVkhk2WyWWmRRsT5MX3pHbIADs/HGflReeeOloWkfx/T8khP4vw/r5s81+Jl14J1HxT4b8M+LvD91ruo3srPYx23Hk8gFnPmJ8pxkjkYQ5HFekqoRQqAKoGAAMACuXtvA1unxNvfGd7dG6uZLRLSyhaLAs4wPnwcnJY5OcDAJHOa6mhaRt/X9WB6vy/r9QooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAorK1rxDaaFdaXBdxzO2p3a2kJiUEK5BILZIwOO2fpWrTcWkmNpoKKKKQgooooAKKKKACisi48UaZaapHYXP2yKaWZYEd9PnETO3QCXZsOf96teqcZJXaG01uFFFFSIKhu7O2v7Zre+t4rmB8bopkDq3fkHipqKTSasw3Mf/hEfDf8A0L2lf+AUf/xNS23hrQrO4S4tNF06CaM5SSK0RWU+xAyK06KlU4J3SM/ZU/5V9wUUUVZoFFFFABRRRQAUVmXniLTbG7e1mllknjUPJHb28k7RqehYIp2j64q7a3dvfWsdzZzJPBIMpJG2Qw+tSpRk7JkqcW+VPUmoooqigooooAKKKKACiiigAoqA31ot+ti11CLtozKtuZB5hQHBYL1xnjNT07MArK8ReGNH8V6ctjr9mLu3SQSqhkZMMARnKkHoT3rRuLiO1tZbi4bZFChd2wThQMk8VieGvHHh7xfJcJ4d1D7Y1sFMo8iSPaGzj76jPQ9KuCn8cL6dV0Ljzpc8enUw/wDhSvw//wCgB/5OXH/xdWdP+EngjS9St7+x0MR3NtIssTm6mfawOQcM5BwfUV2VFafWq7+2/vZTrVGrOT+8KK49viv4LTWDpTazi9E/2cxfZZv9Zu27c7MdeM5xXYVlOnOFuZNXIlCUHaSsFFFFQSFFFFABRWTrHijR9Bv9OstWvPs9xqcvk2ieU7eY+VGMqCByy9cda1qpxkkm1oxtNasKyvEXhjR/FenLY6/Zi7t0kEqoZGTDAEZypB6E961aKUZOLunZgpOLujhP+FK/D/8A6AH/AJOXH/xdWdP+EngjS9St7+x0MR3NtIssTm6mfawOQcM5BwfUV2VFb/Wq7+2/vZo61Rqzk/vCiiiucyCiiigAooooAKKgN9aLfrYtdQi7aMyrbmQeYUBwWC9cZ4zU9OzAKKKKQBRRRQAUUUUAFFFUdH1rT9fsDe6Rci6tvNeISqpCsyMVbBIGRkEZHBxwaAL1FcvB8RdAuo/Ns01m6i3Mglt9BvpY2KsVOGWEg4II4PatbQ/EGneIrSa40qSZkgna3lWe2lgdJFAJUpIqsOo7ULXYNtzSooooAKKCcAms3SfEGn63JdR6e83mWjqk8c9rLA8ZYbhlZFU8jmmotptLYdna5pUUUUhBRRRQAUUUUAFFRpcwSXElvHNG00QUyRq4LIGzgkdRnBx64NSUAFFFFABRRRQAUVj6r4q0rR71bO7kuJbooJDBZ2U106ITgM6xIxRSQQC2AcH0NaFhf2mqWEN9p1xHdWs6h4pomDK49QRRuBYoqlZ6zYX+o31ha3G+6091S5iKsrRll3KeQMgg8EZHBGcg1doAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5e21fW9c1bUodJn06wh065NsyXdu880pABLYWRAindx97I546Vq6JNrMsN1/b9tbQSpcskH2ZiyyRbVw/JyCTu4OMY/E8pbX9jq8RufHXgyT7bFPLFDMdEe6DxrIwQrtV3XgA/NjPUcEVteD4L6GPUWminttNkut2m21yT5sUW0A5B5VS24qp5UHHHQddSFovS1v60fX9NTeorJ6f169RNb1DXdI1KwlW60+Wwu9QitfINk4lRXOCfM83BPH9yukdlRGdzhVGSfQVxPirXre9OmR2tjrErWuqQTS7dGu8KiE7mB8rB/DOe1dLaajaa/a3MMMV7Gm3Y/2mymtiQwI48xFz+GcVnOEvZptfh6Eyi9G1/V2ZNhqXiHxBYpqujtp1lYTDfaw3lvJLJPHn5XLK6iPcMEDaxAIzzxUXg7xDrPiO61l9QhtrGKwvHsltBCzSK6qhLGTfhlyxxhRkYOR0pNG1ebw5oNro+sadqMt5YxC3jazsZJ47lUG1HDopVNwAyHK4Oe3NVvh5Pdn/hK7jVYPIuP7akkeGP8AeGMeTEQvy/eYDAOM5PStpRXLOyVlt96+8tr3Xp1F0HWvFmvTanbK2l2v9m30lq169nIyXBXHCxecCuAcli564A4Jrd8Na1Nq9rdx30UcV9p909pdCIkxl1AYMuecFWU4PTJHOM1j+A7vMmuxyWmoW7TapcXcf2mwmhDxMV2kF0AJP93r7Ungi4eTUvE5+yX1v9p1NrmBruxmgWSMxRqCC6j+JTx146UVIr3la1kn+X/BCaXvabM17pPFM1zN9huNIsoVJEQmgluWkHYsQ8YT6Dd9ak8M6zLrejme6gW3uoZ5bW4jR9yiSNyjbTxlSRkfWuP0mx0prBE8YeGLzVfEJZvtD3WlvdCR8n/VzMpiVP7o3KAMZArU+HDPaabe6bc6Xc6ZcJf3M32d7aRYkRpSVCSlQjjBGNp6Up00oPy8v6uhVI2j6P8AzL/jP7mhf9hq1/ma6SuI8Va9b3p0yO1sdYla11SCaXbo13hUQncwPlYP4Zz2rqdN1e21ZZDax3kflkBvtVjNbZz6eYi56ds4rKUJKkrrq/0InGSSuun6svUEgDJ4AoproJI2RujAg1zu9tDMxLS/1TXbcXukTWdpZOxELXNs8zzKDjfgOm0Ejgc5GDx0q1pmqPc3l1p96ix31oFMgQnZIjZ2uuecHBBHYgjngnM0a6bw1pMOkanbXjG0HlQz2tpLOk0Y+6f3asVOMAg45BxkVa0i0uJ9evdbuoWtxcRR29vC/wB8RqSdzDsSW6dgBnkkDGL1Vnfv934O/T100OWMpe7f4uq/r8H1+ZuUUUVudRzN1rGt2PiZNMEVtqAurd5YBFA0PlEOoHmOXYbcHkgAk4wOa1bJtXiuZV1ZrOW38vek9ujR7TnlSrM2eOd2R9Kw5dZhHjSK9+yaobeOwkgaQaVcn5zIhA/1fPCnnpXRQXEGq2DmNZ1ikDIRNA8LdMH5XAP44rmpu8bxd3r+bt+mpzU3GVRrm69/JX/X9DJsr3Xdbg+36dJYWVjLzbLcW7zSSp2c4kQLnqBzwR9KuaRq8l415a6hCtvfWDBbhEbchBGVdT/dIz15BBFczpuiaJotkmn694XhnmtxsS8h0n7Styo6MSiMQ2MZDY5zjNb2i2NmYbxbPw/Fo9rMoQMsSRSTjBySijKgZ43c8ngd1GUvs72/rpp/WhFKU3KPPv11/S2nr+LGWd/retWq6hpjWNrZSfNbx3MDySTJ2YsHUJu6gYbAPPpTPC2taprd1qTX8UFpFZ3LWwtljJkDAKSTJuwRycYUZ4PtTdK1KTQ9Jg0vU7G+e5s4xDG1taSSpOqjCsGUFVyAMhiMHPbmofA8l1JL4gkv4RBO2pszRBg2z92mFyOCQMZx3pxkvaJJ6Wf6f1YlSd4Xbu3qvk38tdu/mbEFtYeG9PvLiWfy4mlkuriedhkljk5OO3AHsAKp+EreZba/vZYWtotQvHuYLdhgxoQACR2LYLEdt3rmsdNTTWdUF5r9nqkNrbS5tNP/ALKuXG4dJZCIyGbuoBIHXk9Op0zVE1RZ2itbyBIpNgN1bND5nAO5QwBxzjkDkGilKMmmuisl5af5Ky+/XRaRlCc0k9E/m3r/AMH1/O9RRRXSdRy3jLXfEWjT6cvh3Rf7SSeQrcNsZ9g4wPlPy5yfmPAxXUjpzxXLeMtd8RaNPpy+HdF/tJJ5Ctw2xn2DjA+U/LnJ+Y8DFdSOnPFZU3dy1e/6dDng/wB9NXfTTovR/mFFFIxIUlRkgcD1rU6DyofE7XNc8QahZeG28N6dFYXDW5TXLt0muCpwWRVxgce9dd4J1zxFrUWo/wDCT6OmlyW1wIodm7bMu0ZZSfvDOSCOMEDsTXmMlvY67E+oePfhVrH9pTyPifRbaQBxuI3OgkBDcHlgc8HoRXW/B/w5rHh+11X7bDdWWk3E4fTrG9kDzRLzlmxwpOV49vxPr16dKNF2STVvv62aev3HdXhBRfKrW/rvqcre/wDCdf8AC9rXH/CPf2z/AGY3k/6/7P5O5vvfxb+vTivU9EufEdlpt7deOpNGiWBfMWTTTLsWMAli/memO1cn4utdU0L4sab4vg0e+1bTlsDZyx6dH5s0b5Yg7O45HP1zjjOtFrGpeObXUNIl8K6npGl3lnLCb7UGWKRWZcAeTye+c57VnWbqUoNJWtq9NNWKo1PlbtbQzNP8X+OvF1vLqvg7R9Jt9HVmW3OrPJ512ASMqE4XpjnjPc1jfBy/udU+IPja8v7T7FdSSxedb7t3lOGcFc98EVe8K+Idc8C+HoPDeu+DdZvJ7HdHBc6TbieGdNxIYtkbevfnucHis34b3eu2HxK1+48Q+F9XtH1ydSkiWpeCDG8/PLwMYIGRnJ9K35EoVVBK1tHfVq689e77FSX7qasltb0v+J7NRRTXbZGz7WbaCcKMk/SvFOA80+NH/Hv4U/7DsH8jXpckixRtJIwVEBZmPQAd68W+IXiS/wDFceirp3gvxXGdP1KO7l8/SmG5FzkLgnnnvj616HpfiBPGtlqOnS6DrukRvbmNn1Oy8gOHBU7Dk5Irvq0prDwv0vf8DrqQajDm2W/3mBp/jLxj4yE994H0vSoNHilMcVzq7yBrrHUoqfdH1/xA1fC/j9NUTV7XxDZ/2PqmiAvfwM+9FjwT5it3XAz+XXNc14U1bxB8OdIHhrXfC2rapFauwsr3R7cTpKhYn5hkbDknrz7cZM3h7wbq/iLVPFHiDxTbf2TJr1mbGC0UhnhiKhdzY/iwF4PPXOOBWtSnSSlolFbNPV/0t9NCpRhrzJJX0t6/5a+pNp3jDx54sspNZ8JaLpMGkbmFumpyP590FOCV2HauSCOeM9zUfw38eeLfHGtXjXdlpNlpljKY7iLbKLlSQ20AklSQRg5A+lQeGfEPiPwJ4dj8N6x4P1bUrmxBjtbnTIfNgnXJK7n/AIOuOQTjkiq/wPmvWuPGNxqkHl3jahunijGdsnzllHJ6HjrWk6cI06rUVZW5Xv1t3/4ZjnFezk+Vb6fj/Vybxrq/irRNd0i517SvCd9ZS6qtvZSG3lluIAzZDAsQFbCjle4FerswVSzEBQMkntXivxC8SX/iuPRV07wX4rjOn6lHdy+fpTDci5yFwTzz3x9a9H0PxMvi2O8tH0DXdJVYsF9UsvIDhsjCncckVz16cvYxdrNXv+FiKsHaLat3+85ux8a+LvGdxdTeA9M0qHSbaUwpfaw8n+lMOpRY+QPrn88gXPBvjPxDrPjTVPD/AIj0e30+XTrZHdoHLh3J6g9NrAggdRg5PYYfhK/1z4ZaO/hzWfC+rarbW87taX2jwC4EqMd3zLkFTknr/TJ63w34j8QeINclefw5PpGhrB+7k1AbLmSXP9wE7Vxnr+farqxjFSUIpxto76+vr5BUikpWirdHfz/G6Orqhrf9r/2RN/wjn2L+0ePK+37/ACeozu2c9M4x3q/RXmp2dzlTs7nmvgHxn4v8U3mu2mqw6Ja3OlhoBbosqus/8JbLEGPIIyOeKqeB/H3i/wAST39/qK+H4tA0qV0vLuFJwXVVJLREkggAA8gcEVm/E7QfEeieMJde8FWV1dNrtk9jfJbRO5jbAUSfL93jbg9ip9a7vQ/A8GmfDAeFGYIZrN4biZBnMkine3vyePYCvUqOiqXtEl71rLt/N/wPU7Z+ySv/ADfguv4nP6V408b+NEm1HwXpGk2ujxu0cUurvJ5lzg8lQnC+nORnucHG74I8df8ACTNqNhq1gdK1jSn23lq7hlA5+ZW7jj+XJyDXlGkeCdN8NwPpvjj4daxrF3G7GPUNGM00c6Z4yFkUKR9AcYyM9e8+H3h7TobzU30/wNeeG7ae38kXN5eO8kwJ5XymY7fXOavEU6ChLkWnR6fnza/d9wVYUknb5en3u46x8a+LvGdxdTeA9M0qHSbaUwpfaw8n+lMOpRY+QPrn88gXPBvjPxDrPjTVPD/iPR7fT5dOtkd2gcuHcnqD02sCCB1GDk9hh+Er/XPhlo7+HNZ8L6tqttbzu1pfaPALgSox3fMuQVOSev8ATJ63w34j8QeINclefw5PpGhrB+7k1AbLmSXP9wE7Vxnr+fasqsIxUlCKcbaO+vr6+RFSKSlaKt0d/P8AG6PN73/hOv8Ahe1rj/hHv7Z/sxvJ/wBf9n8nc33v4t/XpxXq3h6TxNFaXUnjRtHVkIaJtM83aFAO4t5n9K5Dxda6poXxY03xfBo99q2nLYGzlj06PzZo3yxB2dxyOfrnHGdzT9e1Lxg11p0/hTU9K0q4tpI3vNQZYpAWGNoh5PQnnPalWbqUouKVreWmr8x1Xz2elrIyNP8AGXjHxkJ77wPpelQaPFKY4rnV3kDXWOpRU+6Pr/iBt+DPGsniO61DStW09tL1vTGC3VqX3qQejq3cH+o65rlPCmreIPhzpA8Na74W1bVIrV2Fle6PbidJULE/MMjYck9efbjJ0fBWi60fFWu+OfEmnmwnv4RFbadGQ8ixKBjdj+IhVGOuc9OKdWnTSnouVfC76v8A4frpoFSMbS0S7W66/wCRjav8SPHfhzxtF4evtF0nVri6h8y2i03zVY7mIXcznjG0k8Yx3HWuu8L6z4zk8QSaZ4w0W0hja1FzDe6eXMSHIBicsTl+ex7dxzXC3HiS/l+L1r4qXwX4rFjDpxtWjOlN5pcljkDOMcjvXqnhzxB/wkVjJc/2RqmleXJ5flanbeTI3AO4DJyOcZ9QaeIioU17i21fn94V0ktIrZfea9FFFeWcZxvxa1268P8Aww1a7087byVEtYHzjY0riPdnsRuJ+orofD+jW/h3w7p+j2ShYLG3SBMDGdoxn6nqfrXPfFrQrrxB8MNWtNPG68iRLqBMZ3tE4k247k7SPqa6Hw/rNv4i8O6frFkwaC+t0nTBzjcM4+o6H6UR2fqvu6fqEt18/wBL/p+I6drDw5oNzPFBDaWVlFJO0cKCNFAy7HA4GTk/U1leALGWy8E2Ml4u28vt9/dD0lnYysPwL4/Cm+PbO51XQINGtYJZU1O9htrlkQsI7fdvlLeilEZee7Ad66YDAwOBQtm/6/rb7gfRf15fr94U2SRYo2kkYKiAszHoAO9OqG8tkvbGe1lJCTxtGxHXBGD/ADoGrX1MCzv/ABFrtmmpaVJp1hYzLvtoru2kmlmQ/dZisiCPcMHGGIBGeeKzfA13cXfirxhNqFr9juFu7dJYt+5QVgUZDcZU4yCQDgjIHSrmj6u/h7RrXR9X07UTc2MK26SWljLPFcKg2q6sisFyAOHK4JPbms/wjJfS+LfFI1vTLuxfUZYpIQ0DmPyhCq4MoHl7gMAgMecgZxmu61o1ElpbT719/n28je3uyuv6v/WprWOp634ktBqOhXFhY6fIxFu13aPcPOgOPMwsiBASCQPmJGCcZwJ7TWL+9/tLSsW1rrdiqnLI0kMivkpIBuU7TggjIIIIyRgnO0C9bwlodvoWs2d+xsF8iC5tLGa5juIh91v3SsVOMAhscg4yOauaFY3Vz4k1HxFewPaC6hitrW3kx5ixIWbe4HQszn5eoAGcEkCJxS5u3R/1v59hS0u2vT7/AMdBfDHiCW88KafqfiG9sYZ75lRVRDAqyHjyRvdtzbgw4PPpSWWo61ceN9S01riwfT7OCOQFbR1kDyF9qFjKQcBQSQozu7Vz0fhO71fVdZ0nUIZINLs2nfT52zhprg7/ADF/65ksBz1Y1r+BI9Rj0fUNW8Q2sltqN7dPJPFsJYCNViGFAyQfLJGByCMdaqcYJSmra9PXb8L+g5Rik2v66r8CtoOteLNem1O2VtLtf7NvpLVr17ORkuCuOFi84FcA5LFz1wBwTW54c1mfWLO8jvI4odQ0+6e0uRHkxl1AYMuedpVlODyMkZ4zWR4Du8ya7HJaahbtNqlxdx/abCaEPExXaQXQAk/3evtR4GuDJqniUtaX1uLnUzcwtdWM0AkjMUagguo7qeOvHSipFPmVrWSf5f8ABFNL3tNmZulW3iU/EjxCseraUtwLOy8yRtLkKMP320BftAII5ycnORwMc9zYJfQ2hGrXVtcTAk+Zb27QIF/3Wdz+Oa5qSSTQPiBqmpXtney2Oo2dskU9nayXO14jJuVljDMp+cEHGDzznit3T9S/tqGcf2df2tvt2rJdxCLzQQc4QneMf7Sr14zzUVnKS5ltZduwVLt3e2n5IzLHU9b8SWg1HQriwsdPkYi3a7tHuHnQHHmYWRAgJBIHzEjBOM4F7RtZkvL690vUY0h1Kx2GVYySksb52SJnnBwQQehBGSME4+gXreEtDt9C1mzv2NgvkQXNpYzXMdxEPut+6VipxgENjkHGRzVzQrG6ufEmo+Ir2B7QXUMVta28mPMWJCzb3A6Fmc/L1AAzgkgOcUubT3ej/rfz7CktHf5f110OjooorkMTkPh4PtFprepzBWu73WbsSyY5KxSGGNfoEjAH40eC91t4k8Y6amBbW+qrLCg/g86CORwPYuzN9WNQ6XN/wg97qlhfWOoTWF3fSX1lcWNjNdZ807njcRKxRg5YgsApVl5yCBoeDtKurX+1tX1KA213rV79qa3YgtBGEWONGxxu2oCcZ5YjJxRHp/hS/LT8By3fr/nqYXiiY+HvjH4U1SDIj1yOXSb1R/FtHmQtjpkNvGeuGNehV574ohPiH4x+FNLgyY9Djl1a9Yfw7h5cK56ZLbzjrhTXoVC+H7/u/wCHuJ/F8l9//DWOB+KXivxl4Xg0pvA/hr+3GuZ2S6/cyS+UoxjhCCM5PzHgY5613kbM0atIuxiAWXOdp9M15r4g8ReJdU+NuleE/C2oNZafY2v23W5VgjfKk/LHl1OCcAcYPzk9q9MoXw39f8gl8Vu3/DhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBlahb+IJbpjpep6bbQEABLjTpJnB7ncJ0H/jtSaJo8ei2UkSzSXE08zXFxcS43TSt1bA4A4AAHAAArRoq+d8vKU5NqwUUUVBIUUUUAFFFFABRRRQAVDdzyW9s0sNrLduuMQwlAzfTeyj8zU1FJ6oDH/tq/wD+hY1X/v7a/wDx+pbbVbye4SOXQNRtkY4MssluVX3O2Un8ga06KlRae/5f5GfJL+Z/h/kFFFFWaBRRRQBnXsGsyXBOn39jBDgYSaxeVge/zCVR+lP0nS00q1eMSvPLNK0080mN0kjdTgcDoAAOgAq9RUqKTuRyLm5goooqiwooooAKKKKACiiigAooooAKKKKACuf8ZeIdQ8NaKl7pOgXWuzNMIzbWpO5VIJ3HCsccAdO9dBRVRaUk2roqLSd2rnk3/C3fFv8A0SvWvzl/+MVe0X4n+JtT1uzsrv4b6vYwXEyxyXMhk2wgnljuiUYHXqK9LorqdahbSkvvf+Zq6lNrSH4sKKKK4zAKKKKAOS1rw74wvtWnn0jxz/ZdnJjy7QaRDN5fAB+djk5OT+NXvB/hCy8HaQ9naTTXU1xKZ7q6uGzJPKerH0+n8zknforZ1puHJ09Evv7/ADNHUk48vQKKKKxMwrn/ABl4h1Dw1oqXuk6Bda7M0wjNtak7lUgnccKxxwB0710FFVFpSTauiotJ3aueTf8AC3fFv/RK9a/OX/4xV7Rfif4m1PW7Oyu/hvq9jBcTLHJcyGTbCCeWO6JRgdeor0uiup1qFtKS+9/5mrqU2tIfiwooorjMAooooAKKKKACiiigAooooAKKKKACiiigAqjpGjWGhWLWek24t7cyyTeWGYgM7FmxknALEnA4GeBV6igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooApWejWFhqN9f2tvsutQdXuZSzM0hVdqjknAAHAGByTjJNXaKKAK8NhZ295cXlvaQRXN1t+0TpGFebaMLuYctgcDPSrFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFcLPoLLr1/Pr3hZvE32i4MlrdAwSC3iwAseyZ12FcHlAc9Sc1s+D7fSba0v00Vrhd16z3NvdE+ZbylVBTB5AwFI5IwRgkYraVOKjdO/wDXr+hpKCSumXNat9anutLbRLuG3hju1e+WUAmWDByq/Kec49PrWrXGeLtD0mDUdG1OHTLOO/k1m2D3aW6CVsk5y+Mnp61111MbezmmCljHGzhR3wM4pSS5E15g1eyX9aslorjfDvhnS9d8N2Gr+ILS31XUtQgS6kup0DtGXG8LETzGq5wNuOmevNVPhzo9vaaj4qefZeXaavJbfbZkDTPD5URCM+MnHf1OT1q3RiubXWPl52DkjZu+x3tFedeC/B+i3c3iA39hbXdrDrNxFa2U0CtBbKMZ2R42gn1xnAAHvueBnaJdc0xWY2umapJb2qsxYxxGNHCZPOAXIHoMDtROjGN7O9rPbv8A8OOUEr2ezOporhJ4vD2uXFxd2/g+78SxvI6m8kWKSPIOGERuZVIXIxlBt44NaXw9uJpvDMsU32gLa39zbRJcvvkjjSVgqM2TkqMDOT06mlKlaHNfXt/TFKHLG/8AX9aEmt6hrukalYSrdafLYXeoRWvkGycSornBPmebgnj+5XS1zfjP7mhf9hq1/ma6SplrBP1/QUunp+rCiiq9/bQXlhNBdwxzwuh3RyoGVu/IPBrCcuWLZBYorzDTdHtbTwT4bvLUyw3l3dwQy3SSES+XIxVow3ZccBeg6jnmul02wtLLxlqWlWtvHHp8unxSPahf3bMWdSSvTJAwfXvmsY1W3a3W2/8Ad5uxyQxEpJNxtdJ799uh1VFcv4NsrUaTq9mLaH7L/adzH5HljZt3Y27emMdqPB1rb2l14htrWCKCBNTIWKNAqqPKj4AHAqoVHLl03V/y0/E0VVvlut2191/8jqKK891hbXwHqk8miWNnIuqRsZLbyubbHWUlVJ8n+8p4B6dSK6bwv4b07w9p3+gpC81z+8muYo1USk88BeAvPCjgD86VOq5u1tt/UmNaUp8ltVvr93Tr+BuUUUVudIUVx13oNq3j+GOyVNPjuNPlku/skYje4/epwWXBGSeT168jNbtvo2n6I1xeabai3zD88MHyo5GTuKjjd23daxjUfLzSVlr+BlGU5TcbbPv5J/qalFef6LBBq2lQanq3hG61i7vEEz3U32WQfNyBGHlyijOAMDpzzmtzw/8A2lYRamlzY3dvYQ4ksUu5Y5JANp3JlHbgEcZOcNjtSVV/aVvv/wAjOlXdRqy0e2/+VvxOkorl9D0HTtY0O01TWraHUL69hWd7iZQzRlhuCxn+ALnA246Z681Q8J6Ylq/ih1xc30d5JCl3IA0zJ5aFVL9Tjj6kZolUlF2ceje/a3+Y41ZScHbST7+TfbyNuPXL7UZpf7B02K5tYnMZurm68lJGBwdm1HLAHIyQBxxmnaRr8mpaxfadcafJZzWUcbP5jhtxct93HBX5cg989ARSeC9o8D6Ps6fY48/Xbz+ua1XihheW6WFPOKAO4UbnC5IBPU4ycfU1XvRV5S9f+AFLnqRjO+9nbTr0JqK5fw/pdj4h0G11bXbO21C6vF84m5iEgiB6IgbIUAYHHUjJ5qbTcQ+ItT0B1E2ni2jniik+YRq5ZWj56r8uQO2SOmKfO9E1vt91xxq3SlbR/qdFRXL+DbK1Gk6vZi2h+y/2ncx+R5Y2bd2Nu3pjHajwfaW9rdeIra1giht01MqsUaBVUeVHwAOKmFRy5dN1f8tPxBVW+W63bX3X/wAjqKK4bwr4Y0q5n1v7XZQXFvFqk0cFpJEphgAC5KpjAJz1x0AFa/hQlBrGnZLW1lfvDAjndsjKK2znsCxx7YHaiFRytdbq/wCX+YoVpO3MrXbW/a/+RpW2rC48QX2l+SVNpFFL5m7O/fu4x2xt/WtCuJsPDOgv461i3fRNOaGO1tmSM2kZVSTJkgYwM4H5V1UNpZ6Np8q6bZQ20SBpPKt4ggJx6AdeKUJy5HKfS/4NjoyqTbUl1f8AWxcorz/RYINW0qDU9W8I3WsXd4gme6m+yyD5uQIw8uUUZwBgdOec10HhePUbeS+t7qzurWwV1ayW7mjkkUEfMmUdvlBHGTnDY7U41G3Zq33/AORNOu6jTS0fr/lb8ToKK4670G1bx/DHZKmnx3GnyyXf2SMRvcfvU4LLgjJPJ69eRmugsNC07S7uSfTbdbTzECvFD8sbEHO4qON3+11pwnKWrXf8DRTm5NW28/JPt5mjRRRWpqFFct4y8Ff8JdPp0n9qTWP2GQvtRdwfOORyMNxweevSupAwMVEXJt3Vv1M1Kbm01orWffvp5BRRRVmgUV8+a5pmp2vi7VJvHngvWPFET3DvZ3lpdS+Xbw5+UKsfA4xwSMeldv8ABefRptO1ltF1K+uS92HkttQXEtqu3aik7m3cLjdxwoGBiu+phFCl7RSvt6a+d/zSOmpQ5I8ydzqJvGEcPxIt/CX2Ni81ibv7T5nAwxG3bj2POfwrpK8Mvfh34WPx2tdDOl/8S6fTGupIPtEvzSbm+bdu3DoOM4r0iLQdE+G/hXWb7w1pnkiO3e5eIzSP5jRoSOWY4/CprUqMYw5G7tdt9X56BUpw5lGD1dvx+Z09x532WX7J5fn7D5fm527scZxzjNcL4A8YeINd8T+INF8Sw6ak2kNGm/T1kCsxLZ5diSOB2FYXg74f6b458Lw+JfGs11qup6kGlSQ3LotqNxAWNVIAxjODke1V/g3p0mk/EDxtp813JeNbSxx+fK25pAGfBY+uMZ961VCnCFWLd5RXbrdLR3/RFOEFSnZ3at08z2OiiivNOQ8y8U+LfHfhPVbBr6Lw7LpmoaktpD5KzmZUZuC2SFztHbPPavTa8y+NH/Hv4U/7DsH8jXompXn9n6Td3uwyfZoHl2Dq21ScfpXXVSdGEkrN3/Q6Ki5lBpav/Ms0V5F4I8G2HxE8Or4o8bzz6teX0jtFGLmSOO0VWKhUVGGDxn8vcl2g+INS8Ha14y8OPdTava6JYtf2L3L73QbA3ls3XHzAfgemaqWFScoRleUd1b5Oz/4YPYptqDu1/nb8z1uivIvBvw80vxv4Tg8R+L7q71TVtRDSi5F0yfZvmIAjCkAYx0IIB7VnfBLwxZL4n8RXuoZvdU0q+MEV4ZHyc71dsZwc475qpYWnGM/f1hvp52017hKlBRk1Lby/r+uh6b4kvPFNtq2jR+GtNtbyymuNupyzsA0EW5fmX51ycF+zdBx69DXivxQ8F6BoGpaBq2k2H2e+vddi+0S+dI2/cSx4ZiBzzwBXstzN9mtJp9pfy0Z9o6nAzisqsIqlCUet+ln+b/QVSKtHl6/Lr6slorx7wN4Tsvibosninx1LPqst5PILe0Nw6RWiK2AqqhHPH5Y75J6Xwb8Pbvwl401S/TU5LrSp7ZILSGeZpJYgDu2nIxtBztxng/nVShTpuUZT95eWl+17/oKdOEbrm1Xkd5RRVDW9E0/xFpE2mazb/aLObHmR72TOCCOVIPUDvXIrX1Mla+pforwrwXpug+BPGPjDQtftziOzkmhui7gzWRXLJgHBOMcjnIYZ4pvw38J2WleDdT+IVzpQF3CJ7vSoPNkxDGitjPzfMCcj5s8AHvXfLCQinLmdtLab3+f9anU8OlfXqktN7r1Pd6K+cPDsmn+J7F9a8ceGvGHie/unYx3NlbObeBQxGIirr0OeMYB4xxz3Pws1TxDZS63p+q2GunSLWM3GnTaxbNHMFHWMk5BPTGD2PrgFbBOlGT5tVv8A8DX9EKeHcU7Pb+tD1aivHvA3hOy+JuiyeKfHUs+qy3k8gt7Q3DpFaIrYCqqEc8fljvknpfBvw9uvCXjTVL9NTkutKntkgtIZ5mkliAO7acjG0HO3GeD+eVShTpuUZT95eWl+17/oZzpwjdc2q8jYm8YRw/Ei38JfY2LzWJu/tPmcDDEbduPY85/Cukrwy9+HfhY/Ha10M6X/AMS6fTGupIPtEvzSbm+bdu3DoOM4r0/TfDeheAND1K48PacbdPKaeWMTPIZCikgfOxx+FVXp0Ywi4t3a7eb89C6tOCaUG7u39bnSUV5F4I8G2HxE8Or4o8bzz6teX0jtFGLmSOO0VWKhUVGGDxn8vcnT8AXt9pHj/X/BNzfz6lY2EaXFnNcPvkiVgpMbN3xvGPofWlPDKPNFSvKO6t99n5ehMqSSlyu9t/vt+Z6VRXgeufD+0T43WmheGLmfQoLrTzPcy28zmRgWbeASxILAAenseh9L8L/Dmx8H+IJL7Qr26isprURTWMjl1klBB84sT97HGMdzjA4oqUKUIKXPq1dK3/B/ryHUpwgtJeex2NFFFcZzlbUtQttJ0u61C+k8q2tIWmlc/wAKqMk/kKy/Beranr3hKy1bWbWK0nvlM8dvFn93CxJjDEk5bZtJ6DJPArmfjrI6/CPUY1JVJ57aGUg4+Rp0Dc/SvQY40ijWONQqIAqqBwAOgoWzfy/V/mgfRf15fr+BxHiDxd4n0zWNNSLw/bWml3GrQWD3N5dh5ZVkfbuSKPIA7gs+fVe1dzXHfEb/AI9vDf8A2Mdj/wCjK7GiOsX6/ov8xy3Vu36s4mx1bxXr3iTxDaaZqGjWFrpN6trGtxpctw7gwxybiwuEHVyMY7V1emR6jFZhdZurW7udxzJa2zQJjsNjSOc++6sI+ANMbVtTvnvtYVtSuBcyxW+pS2qK4jVOPJKMRhBwxb2xTfB1/ef2nr+g31xNeDRrtI4LucgySRyRLIqsQBll3EZ6kYzk5JFtbyX6X/ET3b8zqqKKgv7k2em3N0ELmCJpAg/iwCcfpQNJt2ROc4OOvaud8N6tql5rWu6Zq8lpM+mTRIk1rA0IcPEH5Vnfpux1qnoPhnSdc8P2Oq6/Y2+qahfW6XElxdRh2Quu7bHnPlqucALjoD15qn4KtTpPiXxnAbia7WC5gKNK+99v2dSqljycDC5OScckmurkjGM1fVLt5paGqinF2O6orjPC+i6b4p8M2WueJNPtNVvdQjFyzXcKyrCG5EaBgQiqMDAxkjJySTUmn28J8Ra14Tuo1u9J+yQ3MUMw8wRCQurRfNnK5TcoPTJA4AAiVJJuN9VuTyLXXbf77HX0V5voevWvgvwRYWdrpaSzW8s0d8luBEUjt22S3DYHzHAQ8/e3DkVq6BpWlXnxA8Q6zbWFoPKWKzWaOFR5jlDJK+QOSfNVSe+3FVKhy8zvotvPW3cbp2u3/Wtjs6K868F+D9Fu5vEBv7C2u7WHWbiK1spoFaC2UYzsjxtBPrjOAAPfb8EEpHrulZL2mnapJbWyOd2yIxo4TJ6gF2Az0GB2pToxjfld7We3f/hwlBK9nszVs9bF34n1PRvIKNYQwS+bvzv83fxjHGNnvnNateeaV4Q8NSfEjxDbSeHtKa3hs7Jo4msoyiFvO3EDbgE4GfXArtrTT7DRNPeLSrC3s4F3SeTawrGpOOThQBk4pVowi/d7L8vUKkYqVo+X4pF2iuM8L6LpvinwzZa54k0+01W91CMXLNdwrKsIbkRoGBCKowMDGSMnJJNXNBmfT/GGq+HomZ7GG2hu7ZWYsYPMLq0eTztymQO2SBwAASpJNxvqtxOKs7Pb/hjp6KKKwMzlf7Y13XtXv7fwzJYWdnps32eW7vrZ7j7RMAC6IqSJtVcgFiTlsjHGTo+GddfXLCf7Zbra6hY3D2l7bo+9Y5Vwcq2BlWVlYEgHDDvWR8NcDQdTTYUdNb1AOCMHP2hz/Iik8H7T428cPGpCf2lAuexYWkWf50R/S/5f5je78nb8y5Z+JbhPiFfeGdVjhj32yXumSxqR50X3ZEbJILq/PGPldeOOelrzn4iM1t8SPh3d25K3B1Ke3OAfmieL5wfbgV6NQtY/h+v5NCfxfj/XzQUV5l8Y/B2j+M/7BtNW8ZQ+G5oblnt45ZEBuidowqs65YHGCM43dOa9LjTy41TczbQBuY5J9zQtVcb0sOooooEFFFFAHJaN4V1zw9ZSWuleIbd45LiWfZe6cZFj3uz4TZKhH3ucluckYzitfQ9CXSGvLia5a7vr+UTXVwy7d7BQqhVHCqFAAHJ9STzWtRWsqs5Xv19C5TlK9+pyureH/EmrNbeZrmlxpa3aXUQXSZCdyHKhj9o5HPOAPwrc02HVYlk/ti9s7onHl/ZbN4NvrndK+e3p+NXqKTqSceV7eiE5trU5uLw9qmlWzWegazBZ6dlikVxZGd7cE5Kxv5igKMnAZWx06ACs34daeLPT/EDafO00F1q00ltdzkyef8iK0hPG4F1c5GAe3GK6K/8AC+gardG61TQ9NvbggAy3FpHI5A6DLAmtJESKNY41VEUBVVRgADoAK0db3Gur8v6uW6l42MDwzoGp6FJqH23U7S8jvbmS7KxWLQlJHIzyZWyvHTGfek8OeHtQ0e61aXUNStb1NTuDcukNm0OxyqocEyv8uEHHXOee1dFRUOrN3v18kS5yd/M5jTPDesaNYRaXpmuwR6ZCCkIksN9xGnZRJ5gQ46AmM++am8K+HL3w1Hc2smqJfWck8s8fmW7CcM7ljvk3kP1/ujPWuhoodabTT6+SBzk1ZnK6t4f8Sas1t5muaXGlrdpdRBdJkJ3IcqGP2jkc84A/CtzTYtViWT+2L2zuiSPLNrZvBt9c7pXz29Pxq9RSdSTjyvb0QnNtWYVDeRzy2ckdpLHFMy4V5YzIq/VQyk/mKmorKSUlZknLxeE72Pwxp+lf2nAZdOuIpoJ/sZ2kIcgMnmc89ww+laCaPdJ4o/tcXkO2S1S3nhNucttLHcrb/l5boQ3T8a2KKhU4p3Xr+FvyMVRgkkulur6bGHHouoWN3dHSdSt4La6mM7xTWhkZHb7xVg64yeeQefbik0TQLvRJtSK6mLpb2UzqZ4CXSQqBlmDAMPl6AL7YrdooVOKd16dR+yhe/nfd/wBdTA0Tw/e6bdX11qOoW2oXF596Y2jIw9F/1hGwdlAHrnPNO8OaHf6H58M2oQXFm7F4raK1aMQE9QpMjfL1O3tnjA4rdqG7gkuLZoobqW0dsYmhCFl+m9WH5ikqcYWcVtp/X/BEqMI2aW13u+v9dSaisf8AsW//AOhn1X/v1a//ABipbbSryC4SSXX9RuUU5MUsduFb2O2IH8iKpSbe35f5lc8v5X+H+ZQfRddbW11NdX04SpA1uqHTXK7WYNz+/wCvyj/CtqzS7S326jPBPNk/PBCYlx/ulmP61YoojCMNgjTjFuS/NmHFod/ppePQdShtrR2Li2urUzLEScnYVdCBkk4JPXjFXtOsJ7Qyy3l/NezTY3F8LGgHZEHCjn3J7k8VeoojTjHYapxTuv6+RhR6LqGnRNbaNqsNtY5JWOe1MrQgnJCNvUADsGDY+nFUvAlmlrb6u9vM9xbTai7xXEjbjMAqhnz0OWDcjj04ravPD+jajcG41DSLG6mIAMs9sjsQOnJGavoixoqRqFVRhVUYAHpURp2nzeVvy+7Yy9j76fReb7W+W5k/2Rd2TS/2FfRWsUrmQwXFuZo0Y8sUAdCuTyRkjPQDJp+l6J9hu5767upL2/uFCyTuAqqo5CIo+6uTnHJ9Sa1KKtU4p3Rp7ON7mLHot9pu+PQb+3trVnLi3ubUzLGSckIVdCASScHOM8YHFW9M0pNPaed5WuLy6YNcXDjBcgYAAHCqB0H8ySTfoojCMdgVOKdzDj0XULG7ujpOpW8FtdTGd4prQyMjt94qwdcZPPIPPtxSaHoF1ok2pMNSF0l7KZwZ4D5iyFQMswYBh8vQKtbtFJUop3Xpuxeyhe/nfd7/ANMxNA0XUNIlvjdahbXSXc73JWO0aIrI2M8mRvl46Yz70uhaNfaVeahNd39vdLfT+eyxWrRbH2hepkbjCjj9a2qKcacY2t0VvkCowVrdHfd7/wBMx7rRboa1JqmkX0drPPEsU6XFuZo3CklSAGUgjcR1xz0q3p9re2/mNqOom8d8YVYVjjj/AN0DLc+7GrtFNQS2K9nFS5kYcWh3+ml49B1KG2tHYuLa6tTMsRJydhV0IGSTgk9eMVe06wntGllu7+a8nmI3F8LGmOyIOFHPuT3J4q9RSjTjHYFTindf18jnX0XXW1tdTXV9OEqQNbqh01yu1mDc/v8Ar8o/wrbskvEt8ahPBPNk/PBCYlx/ulmP61PRRGChsKNOMW5Lr5sKKKKs0OW8ZeCv+Eun06T+1JrH7DIX2ou4PnHI5GG44PPXpXUgYGKKKiMIxba6mapwjN1EtXa/y2CkYblK5IyMZHaloqzQ820f4ZeIvDemiz8O+Prq0jaRpJFm06KdSxJOVDHK8YzzycnvXSeEfBdt4UN7cm7n1DUtRkEl5e3GA0rDPRRwo5PH/wBauloronias01J776LU1lVnO9+pyHinwLJrWv2mv6JrM2iazaxGAXKQLOrxnJ2tG2Aep59+/GJNE8IanaX8l54i8VahrjyQtC1uyJBbFW6kxLwT757muroqfb1OTk6ei/PcTqSat/X3nntt8NdY0IS2vg7xpd6RpUjlxZS2cd15WTyEdiCo/8A1kk81F4S+FmoeD/FE+p2Hiyae2u5A93bz2avJcYyfmlLZByxOQBmvR65/wAZeHtQ8S6KllpOv3WgzLMJDc2oO5lAI2nDKccg9e1bRxVWT5ZSVno3ZfjpdmiqyleMnZPfT/gHQU1wzRsEbYxBAbGcH1xXlH/CovFv/RVNa/KX/wCP1e0X4YeJtM1uzvbv4k6vfQW8yySW0gk2zAHlTulYYPToaHRoW0qr7n/kDp00rqf4MZrfwx8V+IhajWPiB9oFncLcwD+xYl2SDoflcZ+h4rrfDmi+IdOkuP8AhJPFA16KVAscZ06O38s9z8pO7Poa6Gis54ipOPI7W9F/kRKrKSs/yR59F8M9Q0O6uP8AhB/FlzoNjcyGSSya0juY1Y/3N5Gz9T054ra8KeBNN8LW15+8m1G91E7r68vCHec85B/2eTx78k109FKWIqyjyt/ld+r3fzCVWclZs8kufDtj4VuLvStB+KUHhuxZi0umXDwySQ7hkhGdwyZByMc855o+BGl/ZdJ8RXNhJKbC4vjHY3EqYMqJkB8HGeo/EEV6Le+E/Duo3j3WoaBpd3cSY3zT2cbu2BgZYjJ4FakUUcEKRQoscaKFREGAoHQAdhXRLF81Fw3btfbp+L+ZpOveHL316f0/meZ638MfFfiIWo1j4gfaBZ3C3MA/sWJdkg6H5XGfoeK63w3o3iLTZbg+I/FH9uxyKBHGdOjtvLPc5UnOfeuhorCeIqTjyO1vRf5GcqspKzt9yOAX4bahot1ct4G8V3OgWt1KZZLNrSO6hVj/AHA+Nv6/oK1PDfgqfSdcl1zW9fvNb1WSD7P5sqrFEiZzhY14HI9a6uuf8ZeHtQ8S6KllpOv3WgzLMJDc2oO5lAI2nDKccg9e1NV5zfLKVr6Xtr99rj9pKbtJ2v1t/TOgoryb/hUXi3/oqmtflL/8fq9ovww8TaZrdne3fxJ1e+gt5lkktpBJtmAPKndKwwenQ1bo0LaVV9z/AMhunTS0n+DL/wARfhdbeP7qwuv7QOnXFqrRvKkHmGWM87fvDGOcdfvHiuytNNtLLSYtNt4EFnDCIFiIyuwDGCO/FWqKwlWnKCpt6LYzlUlJJN7bHndt8MtU8PyzR+B/GN1olhM5kNlNZpdqjH+6XIwPzPvXQeGvC9/o11c3WreJdR1ua4UKUuCFhQeqxjhTXSUVUsRUmrSf4K/32uOVWUt/yRwC/DbUNFurlvA3iu50C1upTLJZtaR3UKsf7gfG39f0FanhvwVPpOuS65rev3mt6rJB9n82VViiRM5wsa8DketdXRQ8RUkrN/gr/fuOVWck0+pyHinwLJrWv2mv6JrM2iazaxGAXKQLOrxnJ2tG2Aep59+/GJtB8J6rYam2oa94s1DWpTGY/IZEgtsHv5S8Z9811NFL29Tk5Onovz3E6kmrM8+i+GeoaHdXH/CD+LLnQbG5kMklk1pHcxqx/ubyNn6npzxWz4W8DWnhS0vmtLue51TUMtc6ldYeR35wcdMAknH5k11FFOWIqyjyt/ld+r3fzHKrOSs3/Xn3PMX+GHiuTxNH4gf4g51SKD7Olx/YsXEeScbd+3uecZrt/DmnazpljJF4g17+252k3JP9jS32LgfLtU4POTn3rXooqYipUjyyt9y/yFOrKas/yQUUUVgZmP4u8O2/i3wjqWhXeBHfQNGGI+4/VW/BgD+FQ+Cb3Ur3wfYnXrSa11OBDb3aSoRvkjOwuueqtt3A9wwreooWlwetvI43xJ4W8T+IJ7fHiDSbe2s9QjvrZP7GldwY23Irt9pAYepCrntiuj0mHV4YHGu31leSlso1nZPbKq46ENLJk575H0q/RQtFYHq7nMtoHiKynm/sPxOq2szs4h1WyN40JJyRG4ljbHPAffjoOOKveG/DkHhyxmjS4nvLq7ma4vLy5IMlxKQAWOAAAAAAoAAAArYooWgPUKCAQQRkHqDRRQBzsOgatpcf2TQNYt7bTwT5cF1YmdrcE/djYSJhR2DBscDoMVD4b8I3PhzXNTu49W+2W+pOs0yXEBMxlCgFvMD7cE5O0IAMgDAFdRRWvtp2a776IvnlZruc9F4f1LSfMh8Napa2lk7tItreWTXCwknJEZWVCqkknac4zxgcVe0fRY9Ka5nkme7vrxg91dSAAyEDCgAcKqjgKOnfJJJ06KTqSasxObe5gWHhO2svEOsapJK1wNTAUW7r8kK4+cDnneRk8elO8LeGR4V8PNptrdtcSeZJIJ5kySSfl3DPO1Qq9Rnb2zW7RQ6s2rN9vw2G5ye5z3hnQNT0KTUPtup2l5He3Ml2VisWhKSORnkytleOmM+9Hhrw/qOiXuqT3+pWt4NSuTdMsNm0OyQqqnBMj5XCDjrnPPauhopurN3v18kDnJ3v1MC88P3q+IJtZ0LUorO5uoEguY7q1NxFIELFGADoysN7D72CO2eav6VZaja+a+q6q1/JJjCrbpDFHj+6oy3P+0zdBjHOdCipdSTVn+X6icm9znovD+paT5kPhrVLW0sndpFtbyya4WEk5IjKyoVUkk7TnGeMDir2j6LHpTXM8kz3d9eMHurqQAGQgYUADhVUcBR075JJOnRTdSTVmDm3uFFFFZknOXHh3UrTVru+8Mapbaf9vcSXcF3ZNcxtIFC+YgWSMoxUAHkg7QcZyTo6DokOg6abaGSSeWSRp7i5lxvnlY5Z2xxknsOAAAOBWlRQtAepxX9lXWvfF1dVvLWWHTvDlq0Fk0sZXz7mYAyOueqqgVcjjJbniu1ooo6JB1uedXPgm/1/45R+JtcgC6PodokelKXVvOnbJaQqCSNucc4yQpHAr0WiijpYN3cKKKKACiiigAorCk8UK9/cWul6TqGq/ZZPKuJbURLHG/BK7pHTcRnkLnHQ88Va0TXbfXobp7aC5gNpctbSpcx7GDhVJ4z0+Yc/0wat05JXsU4SSuy5c31pZvAl3dQwNcSCKFZZAplc9FXPU+wqeuV8QXllJrWlx634e1B0h1GMWV8JYhEs5yFbCy78cnqn4V1VEo2in3CStYKKwD4sSWSU6XpGpapbQuY5Lu0WPywynDBd7qz4IIOwNyCOvFHh/wAX2fiee9GkWt1LbWbmJrthGsbyBVbYoL784YfeUY5B5FP2U7N22HySSub9FcrY+PItUlubfTtD1a5vbOZobq1UQBoCOPmYyhOTnADEnBOMc1t6PrFtrdh9qtPMTa7RSxSrtkhkU4ZGXsQf6EZBBolSnFXaFKEo7l+isS68RTQ3M0Vn4f1e/EJIeSGKONcj+75zpv8AquQavaRq1prmmR39gzNDISMOhRkZSVZWU8hgQQR7UnCSXMwcWldl2iuM8XaHpMGo6NqcOmWcd/JrNsHu0t0ErZJzl8ZPT1rs6JRSipJhJJWsFFFFQSFFZVxrckc8sdro2pXgiJDvFGka5Hp5jpu+q5FWtM1K21awS7s2YxsSpDqVZGBwysDyCCCCKlSTdkQpxcuXqW6Kx28QrK8g0/TL7UYY2KPPbrGI8jggb3UvjkfKDyMdax/BTae2u+Ijo8McFr50OIo4vLCN5fzArgYOc5GOtR7ROSiupDrLmjFdf8n9+x2FFY7eIVleQafpl9qMMbFHnt1jEeRwQN7qXxyPlB5GOtY/gptPbXfER0eGOC186HEUcXlhG8v5gVwMHOcjHWj2iclFdQdZc0Yrr/k/v2OwooorU2CisKbxXbWepPZajZ3dnJ5bSRNII3FwAwXCBHZiSSMAgGrlhq/227ktZrC8spkQSBbhVw6k4yGRmHXsSD7VEakZaJmftIXtfU0aKxf+EkE80q6ZpV/qMULFGuLcRLGWBwQpkdd2Dx8oIzxV7TdUttWtmmtGb5HMckcilXicdVZTyDzRGcZbDVSLdky5RWMfEaySSf2fpt9qEETFJLm2WPywwOGA3OC+Mfwg+nWm6R4qs9ba8awguDa2hKvduEVCwAJUDdvzg91HQjrS9rDv/wAN39Be1hdRvqzbormNHs5fEmnxaxql5eot2PMt7W2upIEhjP3cmMqWYjBJJIyeAKs6Pp2q2PiDUPtl5Pd6e0MItGmcEqQX3AgdTyPmI5GOpFClJ2ut/wCtSI1XJKSWj/q/ob1FZUmu7ppE07TbzUhE5SSS2MSorDqMyOu4joducHg81YtdUivbWaW2jlaWElZLYgLIrgZ2kEgAnjBzg5Bzjmmpxe39f5mnPFuxdorM0zW11XTri5t7K5R7eWSF7aTyxIXTqAQxXr33YpdI1pNXS72WlzbS2cxglhn2bg20NwVZgeGHehTi7W6q/wAgVSLt5mlRXOWfjGLUJbiCx0jUp7u1lMVxbKIQ0JHcsZAnPOAGJ4PGK19N1SDVbI3FqHBR2jkiddrxuvVGHY//AK+lEakZbCjVhN2TLlFcdZa/qZ8YarG2i6pJGtvblbbzrf8AdH58tzLt+b2J6c9q6myuZbq38yeynsm3Y8qdoy31+RmGPxpQqKa0/rWwoVYz0V/uZYorF/4SQTzSrpmlX+oxQsUa4txEsZYHBCmR13YPHygjPFXtN1S21a2aa0ZvkcxyRyKVeJx1VlPIPNOM4y2KVSLdky5RWFN4rtrPUnstRs7uzk8tpImkEbi4AYLhAjsxJJGAQDVyw1f7bdyWs1heWUyIJAtwq4dScZDIzDr2JB9qI1Iy0TF7SF7X1NGiiirNAornvE/jXSvCc1nFqguGa8YhPJjDbQMZY5I45HTJ9q6EHIyKmMoybSexCqRc3BPVb/MKKKKosKK4u++KOk2+qXFjpmma1rklo5juX0qxMyQMOoZsj9M1qeE/GuleM4byTRxcKLOURSi4i2HcVB6Z7cjnuD2wTs6FWMedx0NJU5xV2joKK8YvPiXqCfF+3K6P4nFgmntG2kizPmStub96It2COB83Xg16Z4b8S/8ACSQzyf2LrGk+SwXbqlr5DSZ7qMnIq6mGqU4qT2auVUozp7m3RXBap8UdAlkvrCz0zWNdtoVaK8uNLszLDECCGBfI7Z5H4GuU+CB0lvGfi8+HFKaWTCbVTuyEy+Pvc/nVxws/ZynK6sr7f1YboSVNzlpax7RRRRXGYBRXivxQ8F6BoGpaBq2k2H2e+vddi+0S+dI2/cSx4ZiBzzwBXtVb1KUYwjOLve/S23zZrUgopOLvcKK4u++KWjW+p3Fjplhq+uyWrbbltJsjOkJ9GbIHbtmt3w34p0jxZpzXmiXQmRG2SIylXib0ZTyDUyo1Ix5nHQmVOcVdo16K4S6+LuhR3Nwmm2GsaxbWpxcXum2fmwReuXyOAOcjIqXwv8U9J8Yay1hommaxJGrFWvWtQLdMAkbmDErnHGQDV/Vq3LzOOhTo1Iq7R21FeSeM/EOgap4u0FvEOieLLGXTNSCWVwLSOO3nlLrjLMTuX5AeMHGa9bpVKLpwjJ9RVKbha4UVxeo/FHRrXVrjTdLsdW1+6tTi5XR7MziA+jHIHtxnnjrVrwt8RdD8YarcafpIuxcW0IlmW4g8vZ820ocnO4HGe3PBPOD6vVUebl0B0pxV2jqqKKoa3qv9i6RNf/YL3UPKx/o9hD5sz5IHyrkZxnJ9qxSbdkQk27Iv0Vxfhf4naf4tW+fS9G1sJZRO7vLartdlx+6Uq5zIc8LxUXhz4q6d4n1w6XYaDr8ciSGKeWazUR2zc8SEOdn3SOR1rd4asr3jtuaOlNXuttzuaK4a6+LOiJqM9ppGn6xr32U4uJ9JsjNHEc92yPTqMj3rofDXivR/F2mG+0K7FxErbZFIKvG3oynkf1qZUKsI80ouxMqc4q7RsUVxeo/FHRrXVrjTdLsdW1+6tTi5XR7MziA+jHIHtxnnjrVnwt8RdD8X6rcafpIuxcW0IlmW4g8vZ820ocnO4HGe3PBPOH9XqqPPy6DdKcVdo6uivGLz4l6gnxftyuj+JxYJp7RtpIsz5krbm/eiLdgjgfN14NemeG/Ev/CSQzyf2LrGk+SwXbqlp5DSZ7qMnIqqmGqU4qT2auVUozp7m3RXF33xS0a31O4sdMsNX12S1bbctpNkZ0hPozZA7ds1ueG/FOkeLNOa90S689EbZIjKVeJv7rKeQazlRqRjzyjoRKnOKu0bFFeeXHxp8Padqb2OuadrWjyLGZAb6y2BwDgbQGLHJHBxj3FbHhf4h6T4p1SXTre11CwvUhFwkGoW/lNLEeki8nK8j061csNWjHmcXYqVGpFXaOrooornMgornvHniYeD/Auq64F3y20P7hMZ3SsQqDHpuYfhTvBHh9vDPg2w06d2lu9nnXkznLS3DnfKxPfLsfwxQtb/ANf1/wAMD0t/X9f8Ob9FeaeOvDUdtqugavcapql9cP4jsxHHcXR8mFTJ91YkCpwOMkFvevS6Fqr+dvwT/Ub0dv66/wCQUV5DZW/g6Txz40fxR4fh1e6/tVAhGhvqEiJ9mh67I3KrnPXAzmvR/DA0D+w428JQ2MOmszFUsYlijDZw2VUDDAjBBGQRzQtUn5J/eJ7tebNeiiigAorBfxQszyjTNG1LVbaNmSS5tliEeQcMB5kil8EEfIG5GOvFYPw8fS38ReLDoEEVvY/arcJDFD5IjbyF3KUwNrBs5BAOc5rZUXyyk+i/VL5bmnI7Nvod5RWJL4l3zyx6TpGoausMhilmtDCsauOqhpZE3EHg7cgEEHBBFTw69DdaXc3dnbXE8tqSs1kFVJ0cclSHYAHBBHOCCCCQRmHTklcXJI1KKzfD+tL4h0WDVIbO5tIbhQ8K3Jj3OhAIb5GYAHPQkHjkCq8HiPz/ABPc6J/ZN9HNbwidp2MPlshLBSMSFvmKtgEA8c4o9nJNrsLlevkbVFcrY+PItUlubfTtD1a5vbOZobq1UQBoCOPmYyhOTnADEnBOMc1t6TrNtrWnG7s1kG12jkgkXbJFIpwyMD0YH8OhBwQacqU4K7QOEo7l+iuC07xPrDePNchbw/rMsSWtoyWfn2v7gnzctzPtG7A+6Sfl5xxXZ6fdzXtr5tzp9zp77iPJuWjLY9f3bsuPxzTqUnDf8xzg4Oz/AK0uWqKxJfEu+eWPSdI1DV1hkMUs1oYVjVx1UNLIm4g8HbkAgg4IIq9pmq22qwyPb70khcxzwSrtkhcc7WXtwQQehBBBIINS4SSuxOLW5doooqCQorg9D0fTvHF1q2s+JrCDU0TUJrOxtryJZY7WKFzGSinIDsysxbr90ZwBWh4HuZoZtd0CaWaZNEv/ACLeWZy7mB40lRSx5YrvK5PJCjkmha/df8v8wej+dv6+46yiuBubg+FfjNaIp26f4tt3V0/hS8gXIf0y8eF9ygrvqOif9f1+gdbBRXHfED4naD8N49PfxAl5J/aEjJELWIOQFxuY5YcDcOmT7V18ciyxrJGcq4DKfUGjdXB6DqKKKACiiigDi9B/svxFNfX3hfXNQ0tjdyC9soTA375W2l2R0fbu2g8EZHPUmtTwtrNzqcmqW1y6XS6dd/Z476JdqXA2gnjpuUkq2OMjt0Fu48K+HruNI7vQtMnRCzKstnGwUsSWIBHGSST6k1o29vDaW6QWsMcMMYwkcahVUegA4FdE6kGnb/hvn1NZyi72Of8AGf3NC/7DVr/M1v3UbzWc0cLbJHjZVb+6SODWQ/gnwrJIzyeGdHd2JLM1hEST6k7avabomlaKsg0fTLPTxKQZBa26Rb8dM7QM4yfzqJOHIop/1p5ibjo10MjwReWkPgOwicpaNptstteRyMFNvJGuHDZ6cgnJ6gg9DWZ8NLu2v28U3dihS3m12V4yV27wYojvx6N94fWtLXbWzm1ZZp/Az61PEoMd4IrNsHqADLIrjB9vpVjw3os1lZ6jJqscP2jVrt7q4gU70jDKqCPJ+9hVAJxgnPat5Si4zl1l/mmW3FQfmyl4ERV/4SMqoBbXrosQOv3RzSeDW26l4uOCca25wO/7iGtrTvDmiaRI8mk6Pp9i8i7Ha2tUjLL6EqBke1O03w/o2jSvJpGkWNg8g2u1rbJEWHoSoGaiVSLcrdUl+X+RMpp83mzmtFvL/wASeHV8QXfieXSYJNzGCzjtwlsoONsjSo53jHzHKjOeBU3w0mS48NXk0dw1ykmq3jLO6bWkBmb5iMDBPXGB9K3ZPDehy6l/aMujae98G3C5a1QyZ9d2M5qW10XS7G+nvbLTbO2u7gkzTwwKkkuTk7mAycnnmiVWDi0lv5L+n6jlOLi0u9/z/wAzI8Z/c0L/ALDVr/M10lYb+CfCskjPJ4Z0d3YkszWERJPqTtq9puiaVoqyDR9Ms9PEpBkFrbpFvx0ztAzjJ/Os5OHIkn/WnmRJxaVi9SMdqk4JwM4HelorF7EHK6Xc3uuaMNZudfk02F9xMNskIWAAkbXaRGO4Y56c9qb4QLXvhTUTaXLStNd3XlXDLtLEscMRgY9egrdfQtIkvvtsml2T3ed32hrdDJn13YzUlvpWn2l5Ld2thawXM2fNmjhVXkycncwGTzzzXOqMr+8+jW7621/DY5o05qUZN3t5vX9F6Gf4UuYB4WtINyxy2MCwXUbEAwui4YMO3IJ9xzWN4cni1TV/F8mlnas0kaxSgYDN5WN49QTznv1rprzRNK1C4We/0yzupl+7JNbo7D6EjNSJpenx6gb6OxtlvCu03CwqJCMYxuxnGAKqdOVR+9tqvvBU5x5ErWj/AJNfr8/IzvClzAPC1pBuWOWxgWC6jYgGF0XDBh25BPuOazfCF3bX3iXxPcWQzC9zDtcDiTEeCw9Qcde9b95omlahcLPf6ZZ3Uy/dkmt0dh9CRmm3Fvo2mTvq91DY2koUI97IqRsBwAC57dB1ptS5lOVtP6/pfiL2coqC0tH/ACa+W/8AwxoUVj/8Jd4b/wChh0r/AMDY/wD4qpbbxLoV5cJb2mtadPNIcJFFdIzMfYA5NWqkG7Jm3taf8y+8pTxRv8RrN3RWaPS5ijEZKnzYxkenBI/GtydHktpEibY7IQrehxwazG8J+HHYs2gaWzE5JNlHz+laFlYWenW/kafawWkOSfLgjCLk98DiojB8rjLrf8WKCmpttLX/ACS7eRyXhKxuJNCgsv8AhItRtbuyQQ3FmqW2YWHHQwk7T1BJOQc5rR0eztBeay1hrNxqN5MqJcSSiPbG4UhQDGiruweRyeBmta+0XS9UdX1LTbO8ZRhWuIFkIHtkGrUMMVtCsNvGkUSDCoihVUewFSqTatL9f6X4mdOj7NxS2Xm/+G/rZGJ4TubaLwjaROVt2sIRBdI5x5MiDDbs9ORnPcHNZngyS31WHxK9plILnUpNjbcZDRp8w+vX8a09Xt7WXUhLN4RbVZYwNl0I7U49gZJAwx9KseH9NnsYry4vQiXN/dNcyRxtuWPIChc98BRk+uaXK5z97azX3tf5f8EiMZKUILaL7eTXp/n5EHhGUQ6Db6VcEJe6dEsE8J4I2jAYDurAZB6H6g1attattUvbyy05nlNsu2S5QZiVzn5A2eWHUgdPrxVi+0rT9UVV1KwtbwL90XEKyY+mRU8EENrAkNtEkMUYwkcahVUegA6VraT0k9Pz/wAjanCUEorZf1/T/AwvBLLF4YttPkHl3livk3UJ4ZJATkkejfeB7g5pNIP2zxlq2oWhzZeRDbmRfuyyoXLEHvtDBc+uR2rVvtF0vU3V9S02zvGQYVriBZCv0yKtxxpDEscSKiIAqqowFHoBSUXdOXT/ACt+uxMaTSjDovv0/r5nPeE2WCLWkmZUaPVLh3DEDaCQwJ9AQc/SovBt1De3XiG4tZBLDJqbFHXow8qPkeo9+9bV1omlXt2t1e6ZZ3FwuNs0tujuMdMEjNSJpWnx3E88dhbLNcrtnkWFQ0o9GOMkfWphCUeXyVvy/wAhezlddk2/vv8A5/PyMbweoD6+QACdYnycdeFpfC3/ACE/En/YUP8A6KjrUstD0nTJHk03S7K0d12s0FukZYehIHIpbHRdL0yR5NN02zs3kGHa3gWMsPQkDmnCEo8t+it+X+QRpzSjfo2/vv8A5mRYMqfEbWEchXlsrZo1JwXAMgJHqASPzrZN3b3ourWyvIXuY0w6xyBmiJBwWA5FLfaXp+qIqanY214qHKrcQrIF+mQaktbS2sbcQWVvFbwr0jhQIo/AU1B8ri9tfxuaQjKEtNr3OR8JWNxJoUFl/wAJFqNrd2SCG4s1S2zCw46GEnaeoJJyDnNavh+2sYtV1SW11e41O5kMa3TyCPajKCAAY0Vd2Oo5PTOK0r7RdL1R1fUtNs7xlGFa4gWQge2QatQwRW8Kw28SRRIMKiKFVR6AClCm07vp6/0vxM6dDksui83/AMN/WyMKeKN/iNZu6KzR6XMUYjJU+bGMj04JH410FZDeE/DjsWbQNLZickmyj5/StCysLPTrfyNPtYLSHJPlwRhFye+BxTpqUVZ+f4u5pFSUm2t/8ku3kT0UUVqanLeMvEnh3Qp9Oj8RWX2t5pC1v/o6y+URjL/N06jpzXUg5GRVe706yvzEb6zt7kwtvj86JX2N6jI4PvVioipJu5lGMlUlJ2s7W7/MKRmCKWbgAZNLRVmp8/6fD4f1S9v9Y8GfEifwmLi4eSbT9QdYw0hOdwHmAFeeOGI6e1dn8HNb1LU11631EWd4ttdjGrWcCxpeuchiSFUORtX5sZIIz2J7abwl4cuIY4p/D+lyxx52I9lGQuSScAjjJJP1JrTt7eG0t0gtYY4YYxhI41Cqo9ABwK9Gri4TpuCXpe2nztd/M6qtZTi1b8v6Z5f4gvrXRP2htK1DV7iOxspdIaJLm4YJGW3PkbjxnkfmPWuj1TxboviWw1Xw94Y1q3utYn0+YwC1cuAdhAPmL8o5I75rp9Q0rT9Xtxb6tYW19CG3CO5hWRQfXDAjNFhpen6VCYdLsbayiPVLeFY1P4KBWEqtOUI3Tulby7kOpG6lbVW9NDzf4V+LvC+j/D+10y/1G00m/sWkjvLa9kWCQS7iScNgt26Z9OorG+EWuaJP8SvF8ljcwW8Go3CtZRO4RphukJ2KcE9c4A4zXrN94b0PVLoXOp6Np95cDGJbi1SRhj3IJrI14+CfB5j1/W7HTbCUzBEvBYhpS5B6FFLZwDzXR7enNztF3n+d7l88ZRlCKd5f8OdTSMwVSzEAAZJJ6Vwv/C6vh/8A9B//AMk7j/4irFj8WfA+r6hBp1nrayz3TiGONrWZQ7McAZZAOenNcv1WuvsP7mZexqLVxf3HJfFvxPoOpQ+Ghp2t6ddmDWoZJRBdxv5aDOWbB4Hua9GbWtO8Q6XqFt4a1mxu7v7O4U2tykpjZlIUnaTjmmf8IN4S/wChX0X/AMF8X/xNXdN0DR9GeR9H0mxsGkADta2yRFwOgO0DNXUqUnSUI30v26lyqQsuXdf53PNvhL4o8PeH/Bp0LWrq20TVbCeQXkN9IsLO5YkMC2N3GB+HpiqHh+C48V+KPH+r+FEeHTNRsWtbeYjy1uLnZjevTHO45/28nrXrGoeH9G1aZJtV0ixvpYxhHubZJGUexYHFXYoY7eFIoI1ijQbVRFAVR6ADpWksVFuU4r3pb9u/9dh+2SbcVq9dfW55d8MfGfhnQ/h5Bpuq31vo99pu9Ly0u28uXfuJJCnlifQAntVL4DXNpcSeLbqxi+z2cl8skMbADy4zvIHoMCui8Trq0viGVoPhdp+vJFt8nUbi9tld+AfuupYYPHXtVr4ceD73w3pupXGuG3bUdYu2uriK3GY4s9IxnrjJ9ucc4yd6lSm6VSeznbqn1vstfv22NJuCpv8AvNPdPv2/U5T4t+J9B1KHw0NO1vTrswa1DJKILuN/LQZyzYPA9zXpdvrul67bXUOgaxY3s6xH/j0uUlMZIIBO0nHNV/8AhBvCX/Qr6L/4L4v/AImrum6Bo+jPI+j6TY2DSAB2tbZIi4HQHaBmuSpUpSpKEb6X7dTKc4OKUb6f53PM/hF4i0Lw34WuND8QXtto+s2t3Ib2O+lWFpGJ4bLEBuMDr29xnp9A1rwbqXxE1E+HFF3q01qr3moWxLwlVIUJuzt3dOg5x1yK6XUdA0fWGVtX0mxv2T7purZJSv03A1R1PVvDXgDRkmvfs2kWDSCNFgtyFLkE4CxqewParnVjWm5JPml0X9Xt5BKSqN8qd3/w/wAzeorhP+F1fD//AKD/AP5J3H/xFWdP+LfgjVNSt7Cx1wSXNzIsUSG1mTcxOAMsgAyfU1j9Vrr7D+5kOjUSu4v7jgPFGrXPwi8f6ze2cROm+IrR5rZFXKx3ajqRnpuOT7OPSup8HeCrzSfg5e2UO5db1e0lmmdzhvNkQhVJ7YBA+uTXeahpGm6sIhqun2t6IW3Ri5gWTY3qNwODVytZ4rmpKCWul33tt/XkayxF0rLXd+bWx88fDm4vbHw6+nL8R7XwlPbzuJ9NvtMgDK+eu+RgWyMe4xjoBXW/DnTbCHxR4jm0rxrFr2o3lvuuVtrDyEV8nbJuUlCck9PUmvSNR8N6Hq84n1bRtPvpQNokubVJGA9MsDVuzsLPT4fJsLWC1iznZBGEX8hWtbGKopWVnLfSP52ux1MQpJ2W/p3v21PKvhF4i0Lw34WuND8QXtto+s2t3Ib2O+lWFpGJ4bLEBuMDr29xnp9A1rwbqXxE1E+HFF3q01qr3moWxLwlVIUJuzt3dOg5x1yK6XUdA0fWGVtX0mxv2T7purZJSv03A1PY6dZaXbi30yzt7OEdI7eJY1/IACsaleFSUp2ab89P+G8jOc4y5mr3f+dzzTxBfWuiftDaVqGr3EdjZS6Q0SXNwwSMtufI3HjPI/MetdY/jHQ9fkvNC8O63bXOqyWkjQ/Z2MiqduA28ArwSO9b2oaVp+r24t9WsLa+hDbhHcwrIoPrhgRmiw0vT9KhMOl2NtZRHqlvCsan8FAqZVac4RUk7pW8uv8AmEqkXaVtVb00PMPhL4o8PeH/AAadC1q6ttE1WwnkF5DfSLCzuWJDAtjdxgfh6Yp/w9uI9W+J/izxPpCtD4enRIxM67EnlXG5xnHHDEn/AGuetejah4f0bVpkm1XSLG+ljGEe5tkkZR7FgcVcW2gS1FskMawBdgiCAKF6Yx0x7VpPEwk5zS96W/b+u3YcqsWpWXxb/fc8a1fWPC2pftA6ZfXmp6Vc6db6ZkXD3MbQpMrOV+bO3cMggfSvWNOu9E1mZtT0i4sL+VF+ztd2rpKyj72wuucDocZ96p/8IN4S/wChW0X/AMF8X/xNaOm6RpujwNDpGn2thE7b2jtYViVmxjJCgc8CprVac4RUb6Kwqs4zta+yRcooorjMDz/432k1z8JdTkt42lNpJBdOijJKRyqzfkoJ/Cu7tbmK9s4bq2cSQzxrJG46MpGQfyNLcW8V3ay21zGssMyGOSNhkMpGCD7EVleE9Afwv4bt9GN617DaFkt3dNrJDuJjjPJztXC57gDihbNfP/P8l+IPo/68v1/Ax/iN/wAe3hv/ALGOx/8ARldjWBc+AvB97dS3V54U0O4uJnLyzS6dCzuxOSxJXJJPc1oaToOkaDA8OhaVZabFI2947O3SFWbGMkKBk4ojomvO/wCCX6Der/rz/wAxmm+IdJ1f7ULC+ikezdo7mNso8DDqHRsMvTPI5HI4rnPAM6ajrPivV9OkMmkX2pKbOQf6uYpCiSyJ6qXUjcODtJFdDqnhjQNcuI59a0PTdRmjGEku7SOVkHsWBxWkiLHGqRqqIoAVVGAAOwFC7+Vvy/yEx1V9Qiln026htn2TSQusb/3WIIB/OrFFA07O5z3gu7tl8GWFvuSGXT7ZLe7hYhWt5EXDhh25BPuORwaxfBF5bar4m8aXOlNiGa7h8qUDAc+Qo3j1BIyD0IOR1rqr7w7oup3SXWpaPYXlwmNstxapI646YJGRUkejaZFqjalFptol+67GulgUSsuAMF8ZxgAYz2FdLqQfO9by/wA0/wBP+HNFKKTt1MT4eOkPg2z0yQeXfaan2e9gb78co6kj0b7wPcMCKZoR+3+Pdd1WxO7Tzb29p5q/cnmjMhcqeh2hgpPrkdjW1qPh7RdYlWTV9IsL+RBhWurZJSo9AWBq/FFHBCkUKLHGihURBgKB0AHYUpVE3KXWQnJa26/8OeZW66rcrd+GNBupbWfw/LcXO6JiokJcvawse6srHIz0UZHNdB4Cvl19tX8SIrImoXCRwqwwVjijC4/77Mn45rq47aCKeWaKGNJZiDLIqANJgYGT3wOOaZHZWsVq9tFbQpbuWLRLGArbiS2R0OSST65NOVdSi1bf/h397KlUUlt/XX8djm/AiKv/AAkZVQC2vXRYgdfujmjwX/yFfFv/AGG2/wDRENbOneHNE0iR5NJ0fT7F5F2O1tapGWX0JUDI9qdpvh/RtGleTSNIsbB5BtdrW2SIsPQlQM0SqRbl5pL8v8hSmnzebMLS3WL4seIY5GCSTafZPEjHBdVMwYgdwCQCR0zXQpqFpfPdWthfW8tzCuJEilVmhLA7SwByOh6+lJqWi6XrMaJrGm2d+kZJRbqBZQp9RuBxU1nY2mnWq22n2sNrAv3YoIwij6AcVnOUZq/WyX3ClJN83XT8El+hz3w8dIfBtnpkg8u+01Ps97A3345R1JHo33ge4YEUzQj9v8e67qtid2nm3t7TzV+5PNGZC5U9DtDBSfXI7GtrUfD2i6xKsmr6RYX8iDCtdWySlR6AsDV+KKOCFIoUWONFCoiDAUDoAOwq5VE3KXWQOS1t1/4cdRRRXOZnH+BD/Zkmu6HeOFu7XU7i6CtxvgncypIPVfmZc/3lYdqXwMGvdS8S69G26z1TUQbN8cSxRQpF5gPdWZGwe4APet7VfD2i675X9t6RYal5JJi+2WyTeWf9ncDj8K0ERY0VI1CqowqqMAD0oWn3W/L/ACG9X87/AJnnfj6NtS+KHw/062AaaG8uNQlOP9XFHHgk/UsB9a9FrCsfDK23jLUvEd3c/abq7hjtbdfL2i1gTnYOTks5ZieOwxxzu0LSNvn/AF8kvmJ6u/y/r5tnnfjjxVYf8LB8O+DH8K2fiO8vibnN2y7bFAf9bgxvzhWPb7vvXolYVn4Q02z8baj4qBml1O/gjti0rArDGg+7GABgEgE5J59K3aF8Nv6/qwPfy/r9QooooAKKKKACiiigAorK1rVrvTLrS4rTS5r9b27W3meLOLZCCTI2FPAxjnHXrWrTcWkmNpoKKKKQgooooAKKKKACisO+8StpupwWt3o2oLBcXKW0V6GgMTO3Tjzd4H/Aa3KpxaSbG01uFFFFSIKKKKACiiigAooooAKKKKACiiigAorMuvEWm2l49o0ss1xGAZIrW2kuGjz03CNW2/jipNP1vTtUnkh0+6WeSJFeRVB+UMSBnjg5U8dRjmpUot2TI9pC/LdXL9FFFUWFFFFABRRRQAUVXjvraa/nso5Qbi3VHljwflDZ2nPQ52npVikmnsJNPYKKKKYwooooAKKKKACiiigAooooAKKKKACis59f0yPxFHoT3ajU5IDcJb7Tkxg4znGOvbOa0abTW42mtwoqO4m+z2ss3lyS+Whfy4l3M2BnAHc1zXhLx/YeML/ULK00/UrC507b58WoQLEyls4GAxOeO+KqNOUouSWi3HytxcuiOpoooqCQqrqGl2Gr232bVbG2voNwbyrmFZFyOhwwIzzXH3/xVsNL1eOw1Hw74itRNdi0iuZrFUhkctgFWLjI78du1d1Wsqc6dpNWvsXKMqb10ML/AIQbwl/0K2i/+C+L/wCJqW28H+GrK6jubPw7pNvPE26OWKxjVkPqCFyDWxRS9rU/mYueXcKKKKzJCiue8SeNNO8L6to2nahDdSTazcfZ7doEUqrblXLZYYGXHTPeuhqnCSipNaMpxaSb6hRRRUkhRRRQAVV1DS7DV7b7NqtjbX0G4N5VzCsi5HQ4YEZ5q1RTTad0NNrVGF/wg3hL/oVtF/8ABfF/8TUtt4P8NWV1Hc2fh3SbeeJt0csVjGrIfUELkGtiir9rU/mY+eXcKKKKzJCis59f0yPxFHoT3ajU5IDcJb7Tkxg4znGOvbOa0abTW42mtwooopCCiiigAooooAKKRmVFLOQqqMkk4AFZfhvxFaeKtDj1bTI51s5ndYXmQKZVViu9Rk/K2MgnBIwcUAatFcnffErw7Z61baVDJc39zNfJYs1nbNJFBK7bQHl4QEHgjcW9q6yjpcHdOzCiuW/4TeSfWdT0/SvDGs6m2mTi3uJrd7RE3lFfA82dGPDjnFb2mXs9/Zia60260yQsR9numiZwPXMTuuD9aOlw8i3RRRQAUUE4B4z7VkaJ4hTWrvULQ2F3YXOnyJHPFdeWSCyBxgxuwPBHeqUW02ug7Nq5r0UUVIgooooAKKKKACiqsOpWk+pXOnxTBrq1RHmjwRsV87Tnoc7T09KtU2mtw2CiiikAUUUUAFFYN/4rjt9Wm03TNKv9Zu7ZVa6Sw8oC2DDKh2lkQbiOdoJbGDjBGdDR9Ys9d0uO/wBOdmhkLKQ6FHRlJVkZTyrAggg9CKFqGxeorKsfENpf+INS0VUmhvdOEbyJKoAkjcZWRCCcrkMvYgqeOmdWgAooooAKKKKACiiigAooooAKKKKAOFn19pNev7fXPFS+GPIuDHaWhFvGbiMAYl3zK28MSfuYx06iuk8PJqa2lw+rajb6iJJy9rPboFHkFV2ggcZzuOcnr+AyNG1TxbZWUieINAuL+X7RL5UllPb7vK3ts3qzoo+XGMFsjGcHNXPCmlXmntqlzeRJZpqF2biHT42DLbDaAeRxuYgswHGSeT1PXUSUWtNPR3/X7zepazWn4f195X8RHU9L1LTbu21y8MN1qcFu9k8UBiCMcEA+Xv7dd1dNLKsELyyHCRqWY+gAzXH+I7nWdTbT0tfCmqEWeoxXLs01oA6ITnb+/wA5PbOPwro7G7m1WCeO/wBHvNPTG3bdvC3mAg5x5Uj/AK461nOP7tPT8PImS2b/AE7sxNKXXPEmlQaydZn0lbtBNbWcEELqkZ5TzS6MzMVwTtK4zgdM1B4Hv9d1a81+TX71lksr97JLWFIxCgVEPmKdm/ncSNzHAOMcZqfS21zw3pEGjf2NPq4tEENrdwTwojxjhPN3uGVgMA7VbOMjrgVPh6l/bjxU2pbbi7/tmR3EAwrEwxHahbGQPugnHTnFbytyzta3Ta+6+e3fUt/C9t/6/p/5kXhr/hJdbm1eC88Q3MFrp2ozWsFxDBb+fOFx9/MRQAZ7KCTnnGBW54T1W71C31G01KRZrrS757OS4VNgnAVXV9o6Ha4BA4yDjjiqXgqLU7STWE1LRbuxF1qE17E8ssDBlcjC/JIxDcemPejwfb6pBqHiF9Q0m605b+/a7geaSF/lMcaYIjkbDZQn0xjmlU5XzLTRK1rb6f8ABFOz5ttxutX8VrqMseqeP7bRWOTDbR/ZYiq9t3nByx9xtB9K0PButT674f8AtF3LBPNDcTWzT2/Ec/lyFRIoycBgAep61k+GYdX8N6Oult4bkub3ezTahFcQiG6cknzXYt5mT1PyMR0Gas+BbbV9Ntb6x1vTGt5Wvbi5+0xPGYJfMlLAIA5ccHPzKKU4x5GtNOumv6hNLl9H5efb5E/jP7mhf9hq1/ma6SuM8R3Os6m2npa+FNUIs9RiuXZprQB0QnO39/nJ7Zx+FdLpuoXN+shutIvNN2EbRdPC2/Pp5cj9PfHWspRaprbr1XkRNaL0/Vl6kZgilmOAoyTS0jKHUqwyGGCK53e2hmc/pr3/AIj0+PU01O5023ny1vDbRxEmPPBcyI2SevGMZxz1q1peoznVbvSNQYSXNqiSpMq7fOibIBI7MCpB7dCMZwKmmpqPhuwTTE0y41O2gyttNbSRKwjzwriR15HTIznGeOlWtJ064GqXer6iFjubpEiSBG3CCJckKT3YliSenQDOMnGN7q1/O/p/nbbzOWPP7t783Xe3n5elv8zYooorc6jlbqbXLXxdHp1hfvdR3VpJMftaR7LXDqNwCKrNgHAUnnIya17S3v8AT5ppL3VGvbTy92ZokWSNh1wUCjbjsQT71kyXGqf8JZHqK+HNRaCOzktyBLbbixdWBA87phT7+1dBbSvf2bfarGa035VoZ2Qtj/gDMMH61zU03HS99d793b+tzmp2dR3vv59l+tzj7LxNa6vB9uuvGtppQm+aKygmtsxL28wyKxLY5IGMdO2a1/DniSPUhqNvNeWt6+nFS13aMDHNGykhuCcNwQRnqPek01dU8O2SaZ/Zk+p2tuNltPbSxBvL/hV1kZeQOMgnOM8Vp2R1C7S4Oq20FvDINsUCvvcLjne3TJ9BnHqc8KPP9l626p/5/kRSjNSjzvXro/8AO33Gbpy6vrunxaodVm05LlRLb2sMMTKqHlfMLqSxIwTtK9cD1qp4c1HWLn+3rnWLomSxnkgS1iRBCNqK24Hbv5yTyx4P41b09tW0LTo9LGlTaitsvl29zDNEqtGOE372DKQMA4DdMj0qt4JiulfxAupmOSd9TcyGMHZkxocDPUDOPwpNNz5Yt7Pe++n9af5ExupU+a976722fy3+Re8FxBPB+nSn5pbqEXMznrJI/wAzMffJq7BpNpZave6rFlJruNFm6bTszhumc4PP0FULGK/8O2YsINPl1KziOLVreSNZETsjiRlHHQEE5HUDGTa01dXubi4uNXEdvbyKEhsUIcoO7O46semAcDHU9a1unZRWq+5af0tDWlaMIQmm2rf8Pcp6a9/4j0+PU01O5023ny1vDbRxEmPPBcyI2SevGMZxz1qxYX1zLf32i3sxF3bxLJHdRqAZI3yA2CCAwKkHjB4OOcCtpqaj4bsE0xNMuNTtoMrbTW0kSsI88K4kdeR0yM5xnjpVrSdOuBql3q+ohY7m6RIkgRtwgiXJCk92JYknp0AzjJUbtq1/O/p/nbbzFHn929+brvbz8vS3+ZX8NXF7f6XqMV5fzSSw309tHc7Iw4VThTgLtz/wGl8M3N7PLrNte3st2bO+MEUsiIrBfLQ87FAPLHtUWnx6joVzqFvHpNxexXN5JcxXEMsQUb+cMGYMMHjgNxz7Unhm31WxvNbbVdPKNc3RuY3gkRo3GxQFXLBs/L1YKO/HSopt+6pX+HXffT8d9SU5JxWukn3297/gFTQf7e1afVIbnXJ4raxvpLeGaOGHzpcY+9mPaAM9lySTzxWv4e1C5vYb+1vpBJcWF01s06KF80bQytjoDhhkdMg/SqnhSPULaXVVv9KubQXN7LdxvJJCwKttwvyOx3cH296XwxDfw6jrL32mXFml3dm4iaWSJsrsVcfI7EH5SfT3p0rrlTvrHXffT7uoqfMuV66ye99tbfoZlhpV43jrWIx4g1FXW1tiZRHbbnyZODmLHHsB15zXWW0L2Fm/2u+nvNuXM1wsYYDHT5FUY/Csia3v9M8VXep29hJqFve28UZW3kjWSJoy3UOygghuoORjpWlZTXt9HMNR05bOFhtRGnDyMCOdwUbR+DH8KdNOMWlvrvfuy6MYwk077+f/AAxytl4mtdXg+3XXjW00oTfNFZQTW2Yl7eYZFYlsckDGOnbNbPhfxAuryX1m15a301i6g3VowMcyMMq3BOG4IIz1HvTNNXVPDtkmmf2ZPqdrbjZbT20sQby/4VdZGXkDjIJzjPFaunS6lO0smo28NrGSPJhR98ijuXb7ufYZx6nPCp3utX80/wBX+RFKNRNcz166O352+4w7qbXLXxdHp1hfvdR3VpJMftaR7LXDqNwCKrNgHAUnnIya2bCz1G0u5PtWptfWzICvnRIsiPnnBQKNuOxGfeseS41T/hLI9RXw5qLQR2cluQJbbcWLqwIHndMKff2rorK4lurfzJ7OezbJHlTshb6/IzD9adHa7v13v3f9dzSFnUlvvpv2X63J6KKK6DpOW8Zf8Jh5+nf8If5Pl+Yfte/ZnHGM7v4eudvNdSM4561y3jL/AITDz9O/4Q/yfL8w/a9+zOOMZ3fw9c7ea6kZxz1rKnvLffr6dPL9Tnh/Gnv032+X6hRRSNu2nZjdjjPrWp0HiNx8StT1LxVqlleeMLbwctjdPBBbPpf2gzKpxud24Xp2x1/Gu++HWo+IdUsNQuPEN/p+oRC52WVzYPG0ckYUAn5CcZPOG5BJ4AwK5OOw8bT2Ibxl8PdH8U3jswW4a5toZYkycKSVI7ZBU9CM85rd+F3gi/8ACX9rXd+kNkupyrJFplvK0iWqjPG49W5wcccD8PXr+xVFpWvptZ372t733ndX5OV2t+D/AC1+84y90PxT/wAL2tbMeMMai+mNJHqH9mRfu49zfu/LztPf5uvNen6ZFq3hfRdRvvF3iQ61FBGZ/MFgluYkVSWGEPzZrB8WeH/EFn8RbDxj4a0+HWDDZmzmsHuFgbBLEOrtx/F+nfPGhZjxd4mF5Z+KNE0/SNGurWSCSBbsz3JLDGQy/JjBPv0rKrN1aUdVa2vw33e3X7tBVJKdm7W0vtfz8zC0S68f+PNMOv6drtr4csZi32GyFklwZUBIBkduVyRjj64FZnwck1KX4g+Nm11I01HzYluBECE3hnBK57HGRWpoMXxB8D6Snh+38O2niK0tiy2l9FqCW2IySQHRxkkZ7fTJ61R8AaJ458P+PtXvde0GGeHWpg097BexhIMbjlUJLMPmAxwRjvW7ceWqouPK17u19189u/XYcv4U1p0ta21/631PXKKKa5ZY2KLvYAkLnGT6ZrxjhPNPjR/x7+FP+w7B/I16Rc3EVpaS3NwwSKFDI7HsoGSfyryPxrF4/wDF6aUo8B/ZP7Ov0vM/2xbyeZtz8vbGc9efpXd6Nfa94hgvrLxV4V/sW2khKBv7RjufODAhhhB8vHc+td9Wm1QirrS99V1t5nVOKUY3a031Xc5fQ9R8c/EKzfW9K1m38M6U8jLZQ/YUuZJ1UkbnLHjkdvT8Te8N+PryKfxBpPjSOGLU/D8JuJpbT7lxDt3b1U8g4xx/tDp0rP0DT/Hfw9s20PTdFt/E2lpIzWdwL5LaSFSc7XDjnk549+egF7w14Bv7i61/WPG80Umo69bm1kt7U/JbQEY2AnvjH5dTmtansrS25fs2tf8Az23v8i5cmvNa19Lb7/5d+pQ0S4+IfjjSP+EhsNds/D9rOS1lp/2JZ/MUHAMkjcjJHUDpzgVX+Feu+M/FWvapN4h1tYoNLuDDNpi2UQDMQwwJB8w2ke+cdas6Jb/EPwPpH/CPWGhWfiC1gJWy1D7asHlqTkCSNuTgnoD04yapfA6K/hk8YNqBW4vBqO2Z0ICySjfuwcDufTvWs+X2VVxUbacu17X+/bvrfYc0vZy230tbbX+tdSbxte+NPCOqaXdr4v8AtVlqOrJbCz/syFPKjYk438k4Axng969VlkSGF5ZW2oilmJ7Ada8g8axeP/F6aUo8B/ZP7Ov0vM/2xbyeZtz8vbGc9efpXfaBqfiDWvtcHibwr/YkPl4Rv7QjufNzkEYUcYHr61y14Xoxfu3V72cfK225nVjpFu3na3fyOS0PVvG3xHjuNW0TWbfwzoqzNFZ4sluZrgKcFm3nAH09xjjJ1PBt545/4TTVNN8XiOaxtbZPs93BbeXFO5OdwYjliD8wHAI/E5egaX42+HNnLo2kaHb+JtJEzSWki3yWssSsclXDjB59Pf6DpfDcvjW/1yW+8SW1npOmeRsi0yKQTy+ZnO9pAMdMjA49u9aVXFKXJy8ttNr/APyV/XQdTaVrW6bX3+/1udXVDW7TUL7SJrfRtT/sq8fHl3f2dZvLwQT8jcHIyPxq/RXmp2dzlTs7o8p+H2t+KtR1rxLpXijxMFv9MRolhaxiUJn7twGAG4D+6RjBHPNUvAHiLxdq1nqXibW/FLy+HtKkk/dnTIUa9jRSSQRgp/D0J5yM8VY+KXgLxDqHiJNa8DxA3F/aPYakvmIgaMgAMdxGcjg45+Va73S/CVjp/gOPwsRutPsjW0rL8pfcCHb2JJJ/GvUqVaSpc6SvKytZaW36denr5HbOdNK6t73ktF1/4H3nmmleO9c8YpNqf/CdaF4Ptd7LbWEogmldQesnmMCvpkYz1x0z0/w6+Ic3iKTVdL12Sye/0n5murCTfBcxc/OpGenGfqOByBzGkeB9c8HwPpcvgDQvGNurs0F+zQQShSc7X8xSSfzx0yRiuy8G6HqUN1fy6r4V8PaBbTw+VHHpqL57A9Q7qApX+tXiPYckuRK3Ta//AMl63Cr7OztbfS1tvz27mNoereNviPHcatoms2/hnRVmaKzxZLczXAU4LNvOAPp7jHGTqeDbzx1/wmmqab4vEc1ja2yfZ7uC28uKdyc7gxHLEH5gOAR+Jy9A0vxt8ObOXRtI0O38TaSJmktJFvktZYlY5KuHGDz6e/0HS+G5fGt/rkt94ktrPSdM8jZFpkUgnl8zOd7SAY6ZGBx7d6yquKUuTl5LabX/APkr+pFTaVrW6bX3+/1ueb3uh+Kf+F7WtmPGGNRfTGkj1D+zIv3ce5v3fl52nv8AN15r1TRLPWNA069n8VeJBrKoPNEpsUtvJRQS3CHn159K5zxZ4f8AEFn8RbDxj4a0+HWDDZmzmsHuFgbBLEOrtx/F+nfPGppU3i/XrieHxNoenaTo81u8T24ujPcMWGPvL8mME+9KtN1aUbONra/De938/u0HVlz2btbTtf8Az/Q5/Q9R8c/EKzfW9K1m38M6U8jLZQ/YUuZJ1UkbnLHjkdvT8TseCPF2p6jrmq+GPFEVvHrWlbWaW2/1dxG2MOAeQcFc/wC8OnSsXQNP8d/D2zbQ9N0W38TaWkjNZ3AvktpIVJztcOOeTnj356Aang7wprWnaxrHizxM0FxrmpRhUtLZsRwxqOIwx78KM9Bjqc06vsrT25fs2tf/AD23v8hVOW0tvK3r/l3OT1jXPiRofxJg8NaXrUGuy3lt5yC4sY4I4QzMNx28kKFznPPoeh7fwva+OtO8QSW3ifUbXWNMktRKt3HCkLQzZAMQVeWXGTuI9OnSuOmi+IE3xLt/Fv8AwgWPJsTafZP7Yt/myWO7f/wLpj8a9L8OajrOp2MkviDQf7EnWTakH2xLjeuB825Rgc5GPaniHy01ZR21ty3v8v0+Y6700S2W1t/l/wAMa9FFFeWcZwvxn1O50z4UasbF/KnuvLsxJ/dEsixsf++WNdhpmnwaTpNpp1muy3tIUgiX0VVAH6Cuf+JfhubxX8OtW0qzOLxohNbY/wCesbB0H4lQPxrS8J6/F4o8J6drEI2/aoQ0kZGDHIOHQjsVYMD9KI7P1/4b9fvB7r5/8H9PuZjfEb/j28N/9jHY/wDoyuxrgfGs2u6tLp1vp3hDVpl07WLe7af7RZKkscT5JTNwGyR0DBffFdfpOo3WowO95o17pLK2BHePAzOMdR5UjjH1IPtSj8L9f0Q5br0/VnM2XhvxTp3iDxDd6ZqOj2tvql8t1Gbi0lunwIY49pUSRBTlCerZz2rX8Ma/PqzajYanDFBqmlXAt7tIGLRtlA6OhIBwysDg8g5HOMmu2seKNOnmhvfDLasu9jb3OlXEKKy54EiTyKUIGM7S4PXjpTvCGiahp76rquu+Quqaxci4mhtiWjgVUWOOMMQCxCqMtgZJOBimtvK3+VvwE/1/zOkqO4njtbaW4mO2OJC7n0AGTUlR3EEd1bS28w3RyoUceoIwaBq19Tm9Ni1rxFpsGrtrdxpaXcYmt7S1ghZUjYZTzDIjFmIwTtKjkgetZ/giS9XxR4xbWfJW5juoBI8IIRwsCgOAckZABxk4zjJ61oabLrXh3TYNIbRLjVEtIxDb3drPCqvGownmCR1KsBgHaGHBI9Kp+E9P12z8T+IZPEOn5TVZY5kuYJEaFVEQXy+WDkj7udgBwTxkCu125alrWtpt3Xz27m/2Xe39P+vP8S1pL6p4s0uLWI9Yu9ItbrL2tvaRQFvK/haRpY3yxHzYGAM45xkzWV/f3V5qnh26vGh1G1iSWG+gjQGSJ9219rBlDAqykYIOMgDOBBpCar4T02PRk0e61e0tfktLizlhVvK/hWRZZEwyj5crkEDPGcVe0TSbpdYv9d1ZUjvL5I4Ut423C3hTJVS38TEsxJHHIAzjJmfL71rW6bX8vPbe/wCYpNK708vv/wAu5m+HfEkdh4N0u88U6vLJd3sot3eeJRifJVkAjQAKGVuWHA6mp9NfUrjx7rEH9s3UunWcMQ+ztHDtSaQMxAYRhsKmwgEk/Nzms+28FzXWua5Dq0aDR5FmWwVCCc3GGmfH8JDDAOM8n1rQ8E6XqukaDdy6+gl1W5uZJpvLZSZNoEaYOcfMqKRkjG7BxVT9naUla76ade3otxy5Uny/11/4DMzw1/wkutzavBeeIbmC107UZrWC4hgt/PnC4+/mIoAM9lBJzzjArc8K6pd6ja6lZ6jKJLvTL17J7lEC+cAqsr7egO1xkdMg444ql4Ki1O0k1hNS0W7sRdahNexPLLAwZXIwvySMQ3Hpj3pfBkGp2+peIH1LR7qwS+1A3cDTSQtlTHGm0+XIxDZQn0xjntRU5XzLTRK1rb6f8EU7Pm238jH0rRL9viR4hiXxPqqOlnZFplitN8gPnYBzBtwMcYAPJznjHcWVvJp9ky3eo3F+VJYz3KxhgPT92ijA+mawJ7XU9G8a3+sWuly6ra6jawRMlrLGksLxF+okZVKkP1DZBHTvWzptzqOoRzf2ppS6fCwAjje5EkjA5zvCjavbozZ56d4rSc1dWtZdu33iqPmd+mnbsjG0l9U8WaXFrEesXekWt1l7W3tIoC3lfwtI0sb5Yj5sDAGcc4ybui6rctrN/oWqMst3ZJHMlwq7RPC+4KxXoGBVlOODgEYzgUdITVfCemx6Mmj3Wr2lr8lpcWcsKt5X8KyLLImGUfLlcggZ4zir2iaTdLrF/rurKkd5fJHClvG24W8KZKqW/iYlmJI45AGcZLny+9tbptfy89t7/mErWd7eX9enc3aKKK5DE5D4cHzdH1a5dt80+t3xlc9SVnZF/JUUfQCk8HExeMPG1sj5hTVIpFQdFZ7WIt+Z5PvS2ttqnhHUdSj07RbjWNM1C6a8hFnLCj20j4MisJXQFS2WBUk/MQRwCdDwpolxpcF/e6n5f9p6tdG7uhEdyxnaqJGD3CoqjOBk5OBnFEenpb8v8hy3fq3+f9fM5rxpI2jfFrwRq1sMNqDz6TdAceZGy70z/uupP4mvRK8+1q3/AOEn+NGiWkY3Wvhe3e/u27efMNkKfUBWfHpivQaF8P3/AHf8Pd/MT+L5L+vuscD8Uv8AhY/kaV/wrD7Pv89vt3m+Vnbxt/1nG372cfN0xXeR7/LXzdu/A3beme+K8t1p9b8W/Hqz0fTNSv7HQ/Dtqlzqn2W5eFbiWT5kibaRuyApwe271r1ShfD63/yCXxW7f8OFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZWoaRe3t00tv4h1KwjIA8m2jtio98vCzfrVnStKtdGsRa2KME3NI7uxZ5XY5Z2Y8lieSauUVXO7co3JtWCiiipEFFFFABRRRQAUUUUAFQ3bXKWzNYxRTT8bUmlMan6sFYj8jU1FJ6oDH+0+JP+gTpX/g0k/8AkepbafXWuEF3p2nRQk/O8WoO7AeymFQfzFadFSotPf8AL/Iz5JfzP8P8goooqzQKKKKAM690y6urgyQ63f2aEAeVAkBUe+XjY/rU+nadb6XaC3tFYKWLuzsWaRyclmJ5JJ71aoqVFJ3J5Fzc3UKKKKooKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArn/GV54nstFSTwVptrqN+ZgGiunCqI8HJGWXJzjv3roKKqMuWSdrlRlyu9rnk3/CQ/G3/AKE/Rf8Av8v/AMkVe0XXPi7PrdnFrXhbSLfT3mUXMscy7kjz8xGJm5A9jXpdFdTxUWrezj9z/wAzV1k1bkX4/wCYUUUVxmAUUUUAclrXgAa1q098fFfiexE2M21lqPlwpgAfKu04zjP1JrX8N+GdL8J6Omm6Jb+RArF2JO5pHPVmJ6k4/oMAYrWorV1qjhyN6FyqSkrN6BRRRWRAVz/jK88T2WipJ4K0211G/MwDRXThVEeDkjLLk5x3710FFVGXLJO1yoy5Xe1zyb/hIfjb/wBCfov/AH+X/wCSKvaLrnxdn1uzi1rwtpFvp7zKLmWOZdyR5+YjEzcgexr0uiup4qLVvZx+5/5mrrJq3Ivx/wAwooorjMAooooAKKKKACiiigAooooAKKKKACiiigAqG1srWxjeOytobdHkaV1hjCBnY5ZiB1JJyT3qaigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAIYLK1tZp5ba2hhkuX8yd44wplbAXcxHU4AGT2AqaiigAooooAKKKKACiiigAooooAKKKKAM/UPEGjaTOkOq6tY2UsgykdzcpGzfQMRmrVteWt6jtZ3MNwqNsYxSBgrYBwcdDgg/iK5bTbHULHUdSvdATSNYtdSunme5mvGikQjCGLcscgcKVIHIx0xxmr/AIUk0xRqdrp+n/2ZdQ3ha+tQchZWVTvGOCrLtIIx7gHIreVOKjdf18t12NZRSWn9f5FfW77TdR17S7G28XWun3tnfLJNYx3S+ZdDBHksgcHnIOCD9K6iub8Z/c0L/sNWv8zW/dPJHZzPAu+VY2KL6nHAqZW5Iv1/QUlflS/rVlO98Q6Lpt4lpqOr2FpcyY2Qz3KI7Z4GFJyaki1nS59QnsYdStJLy3XdNbpOpkiHqy5yByOvrWN4HsrSTwLYTsEupNStluLyaRQxuJHXc5fPXkkYPQDHQVm/DS0trBvFNpYuXt4ddlSMFt2wCKIbM+i/dH0rR0oLnXWP+dhuMeVvsdC3i3w4lkl4/iDS1tZHMaTm9jCMw5Khs4JGRxWpBPFcwJPbSpNFIoZJI2DKwPQgjqK47wFpttHqfifUfL3XUus3ERkbkqgIIVfQZJJ9T+FWPA+IJvE1pHiO1tdZlWGMcLErRxuQB2G52OPc0TpwV+Xok/vt/mEoJXt0Ztaj4j0TSJli1bWNPsZGGQlzdJGSPoxFaCOksayRsrowDKynIIPQg1yemajdalDNqHhfw1posbx2b7Rd3X2Z7vnHmbUifIbsWIJHanfDkPH4burdokgW31O8iSCNtyQqJ2winA+UdBwOOwpSpJQb6r0/pBKCUb+dvz/yH+Ijqel6lpt3ba5eGG61OC3eyeKAxBGOCAfL39uu6uprm/Gf3NC/7DVr/M10lRLWmn6/oTPp6fqwooorIgpXus6XpsqRajqVpaSP91J51Qt9ATzUqX9nJbyzx3cDQw582RZAVTAycnoOCDz2NYVjaXtnfX93oy6bqkF9cNK80t00ciEYUx5VHDBdpAHGOlXPDr2C/wBoW9lZfYLiO5LXdvnIEjKDuHbBGCMY+gOaxjOUnZ9v69TBVG5Wff8Az67eZeg1XT7mxe9tr+2mtEyXuI5laNcdcsDgYpkV7aa1YynSNUjdc7PtFnJHIY269wy5+oPWsvwd/wAe+r/9ha5/9Co8Lf8AIU8Sf9hQ/wDoqOlCbmo3+1G/5f5iVST5b9W1+f8AkReH/EcMfhuK48RatbxytcTxLNdSRw+YElZR/dGcAdBXSQzRXMKzW8iSxOMq6MGVh7EVyPw7sLJNMvL6PbLdyX1wkjsctGBK2EHoP4serZq5psa6d48vrCwGyzms0u5YV4WOYuVyB23AZPrtzSozk4w5vtL9L/1+u5FKclTi5bbefY6Wiiiug6yvd6jZWBiF9eW9sZm2R+dKqb29Bk8n2qxXLeMvDfh3XZ9Ok8RXv2R4ZCtv/pCxeaTjKfN16DpzXUgYGBURcm3cyjKTqSi7WVrd/mFFFFWamdqHiHRtJnSHVdXsLKVxlEublI2b6BiM1ZtNQs78ObG7guRGQHMMgfaSAwBx04IP0Irw0eGPEVlr+r6npfh3w/4507ULqSYXk0kc0iDcfkBZhgjoQAenWur+DNzo/l69Z6fpN3o2oR3YkvLC5k3iHIIUIdqkLweCMj1PFehUwsI0nOMr2t2/FXujqqUYwjzRd7f16ovXHxT02H4lQaINS0j+x2smllvjdL8kwYjZv3bRwOh55rtNN1rS9ZSR9H1Kzv1jIDtazrKEJ6A7ScV5Ze+GtCP7Q1lYHRdP+xyaQ0r232VPLZ9z/MVxgn3616BqVlaeFPCesXXhfSrOzuI7SSZY7W2WMO6oSuQoG6prwoqMOS92v1YVIQclGG7t+Ja1fX9J0/fZ3mvafpl5LGRF9ouI1ZSRgMFYjPP51xnw11/X7/xh4n0fX9aGrx6W0SQTC2jhDZLZbCDvgdzVb4Y+DPDuteA4dX1mxttZ1DVS8t3dXaiZ9+5gQCeVI9sHP4Vm/BrTbTR/iB4307Tn32trOkcRznCh5OM98dM+1bKlThCrDdxXZb3S06r9RuMFSml0t08z2SiiivLOQ8o8bXvjTwjqml3a+L/tVlqOrJbCz/syFPKjYk438k4Axng969XrzL40f8e/hT/sOwfyNeh6pcTWmj3lzax+bNDA8kcf95gpIH512VveowlZX16JdjoqLnUO7+XVkOoa/o+kypHqurWNlI/3UublIy30DEZq9HKk0ayQusiMMqynII9jXlXwo8M6B4k8HnX9ctrbXNW1CeQ3k97GszRsGICANnbxg8evpiqGgXlx4U8TePtE8LO0+m6dYteWkW4yLbT7MlBn/aJ4/wBn1zVywsU5Qi/ejv27f13H7FNtReq7+tvzPVL3xHomm3a2uo6zp9pcNjbDPdIjnPT5Sc0lv4l0K81E6faa1p096CVNtFdo0mR1G0HPGDmvPvhj4M8M658PINS1Wxt9YvtS3veXd2vmS79xBAY8qR6gg96y/gTo2lQ6p4me3it7w2N8IrS9ZFZxH84yr9gQB061UsNSjGpq7w8vOwSpw5JNN6aHX+JfEclx4i0aDw34z0Cyjhu9mp2k93EZZ13qPLUEMQ3DjGVOSPw7mvJPi5oek6dN4avNP0uytbqfXYfNngt0R5M5J3MBk88816tdSPDZzSxLvkSNmVT3IHArCtGKowlHzFUirR5ev+bKmpa9o+jMi6vqtjYFxlBdXKRbvpuIzU1rqlheyeXZX1tcP5ay7Yplc7DkBsA9Dg4PtXl3wk8OaL4o8N3HiXxFaW2tatqF1J9oe9jE3lbTgIFbIXjB9cEDoBXR+F/AWieEPHmp3uk3sUTX9sDHpQxmFNw3OMsSVLD0AGcelXUo0qblByfMvLS/9dRThCPMk9V/nY7ioL2/tNNtHutRuoLS3TG+aeQIi5OBljwOanqC9sLTU7R7XUbWC7t3xvhnjDo2DkZU8HmuNWvqYq19SjZ+KPD+omUafrmm3RhjMsvkXcb+Wg6scHgD1NNtPFvhzULuO1sPEGl3VxIcJDDexu7nrwAcmvJNHm0j4WeOfFWj6vY25sbi0e9sJJI03yxYybcMeSDgqFPGUPrVv4feGf7H+Guq+Mn020bW7uKe+sQLZD9mUI2wRjHy55OB2IFejPC04xc7u2lvO/8Al1OuWHiuu7SXndHq2oeItE0m4W31XWLCymcZWO5ukjZh6gMQavxypNGskLrIjDKspyCPY189fD2z1DUPD82qP8OrbxbPfTOZ9SvdUg3M2egRwShH5nOemK7P4ZaL4q8L3GuxX2iyabo0iG4sLOW+S58mTn5AynODnqR2HfOVWwcKSl72q81r8r3+9E1KEYp2eqdun+Z6JqWvaPozIur6rY2BcZQXVykW76biM1Na6pYXsnl2V9bXD+Wsu2KZXOw5AbAPQ4OD04ry74SeHNF8UeG7jxL4itLbWtW1C6k+0PexibytpwECtkLxg+uCB0Aro/C/gLRPCPjzU7zSb2KJr+2BTShjMKbhucZYkqWHoAM49KzqUaVNyg5PmXlpf+upE4QjzJPVf52K1x8U9Nh+JUGiDUtI/sdrJpZb43S/JMGI2b920cDoeea7TTda0vWUkfR9Ss79YyA7Ws6yhCegO0nFeWXvhrQj+0NZWB0XT/scmkNK9t9lTy2fc/zFcYJ9+tekNpth4b0TUJvD2kWdrIsLyiK1t1iErqpKg7QM+lGIhRjCHLe7X6surCF0obuxY1DX9H0mVI9V1axspH+6lzcpGW+gYjNXo5Y5olkidZI2GVZTkEeoNeVfCjwzoHiTwedf1y2ttc1bUJ5DeT3sazNGwYgIA2dvGDx6+mKk+He3Rfih4p8L6PK0uhWypPFHvLrbSnG5AT7lhj/Z9c054aMXOCfvR3008/66kypxSlyv4f8AOx31r4p8P31y1vZa7ptzOiszRQ3kbsoHUkA5wO9WNO1nTNXEh0nUrS+ER2yG2nWTYfQ7ScV454n8C6JrPx40/Rhax2NhJpouZ4bKNYhMQ7kg7QOuBk9eK9M0jwFoGgeIv7Y0W0+wym0+yNDAdsTLkHcVxy3A5J/XmlUpUYQT5ndq+wVIU4LRu9rnSUUUVxHOZ+v61a+HfD1/rGoNttrGBppOcEhRnA9z0HuaoeCJtZuvB9heeJpVfUbxDcyIqBFgDncsQAH8KkLk5JIPNcz8d8/8Kj1DP+p+0Wvn+nl/aEzn2r0RcbRtxjHGKFs38v1/G/4A+i/r+l+qOR03wz4oexVta8canHeM7l0sYLLyVXedgXfbFvu7c5PXNTfD681HUPDs95qeozaikt9cCznnjiV2t1cohPloqnO0tnaPvVa8c6pLo/gnUrm05u3iFvajOMzSkRx/+POtaOiaXFoeg2Gl2/MVlbpApxjIVQM/jiiOl/6/q2n3g+n9f1v+BeooqvqEssGm3U1sm+aOF2jX+8wBIH50DSu7FW/8Q6LplytrqWsWFlcSD5Ip7lI3OemAxyayfCt5fv4g8RadfalNqMNhPAtvLOkSsFeFXOfLRQeT6VP4LtLZvBlhcbUml1C2S4u5mAZriR1y5Y9+SR7DgcCsXwRZ22leJvGltpS5hhu4fKiByEPkKdg9ACcAdABgdK6+WMVUj1S/VfcapJxaX9anVaj4h0XR5Vj1fV7CwkcZVbq5SIsPUBiKsy6jZQaeb+e8t47MLvNy8qiML67icY96wPh6Fm8F2WpSHzL3UU+03k5HzSSnqCf9n7oHYKB2qPRlFt481/SbVR/ZxtoLlolHyRTSGQOAO24KGI9ST3NRKmk5R6xFyx18v87HQ6dqmn6vbG40m+tr6AMUMttMsihh1GVJGeR+dQxeINGn1KTT4dXsZL2Ld5lslyhkTb1yucjHeuIsvEWoeH/Ctppel2yXV1pJuFuklBJFpbPtO3B++ylNuc9+Dit7w1PFrHinXdagYSQfuLG2kHRkRPMYj/gUxH4VUqKjzS6dPvsOVPlTb/rU0m8W+HEskvH8QaWtrI5jSc3sYRmHJUNnBIyOK04rmCe2W4hmjkgdd6yowKsvqD0x71x/gLTbaPU/E+o+XuupdZuIjI3JVAQQq+gyST6n8Ks+BgIbjxLZxAJbWusyrBEowsatHG5AHYbnY49SaU6UVfl6JP77f5ilCKvboyCz+JOgzeJ9TsZ9d0aOxt4YHt7j7bGPNZ9+9dxbBxtXp0zzXUafqdhq1r9p0q9tr2DcV822lWRcjqMqSM1z2kf8lT8Tf9eNj/7WrqJWZIXaNdzhSVX1OOlTWUE/dXRfl6BUUea0fL8kUdR8Q6Lo8qx6vq9hYSOMqt1cpEWHqAxFXopo7iFJYJFljcbldGBVh6gjrXN/D0LN4LstSkPmXuop9pvJyPmklPUE/wCz90DsFA7UzQybPx9rumWYxYC3t7sxKPlhnkMgcAdtwUMR6knuaJU0nKPWInFWdun+djqqKKKwMzj7W51bxfqepSadrU+j6Xp9y1nC1nFDJJdSpxIzmVHAQN8oCgH5WJPIA0PCWtXWqW9/ZaqYjqmk3bWl00KlUkO0OkgUk4DI6nGTg5GeKofDgsmj6tbSrsmt9bvldCeRunZ1/NXU/Qik8HZl8YeNrlExC+qRRq46MyWsQb8jwfeiPT0T/L/Mct36tfn/AF8h8GvX2n/FCfw9qs3m2ep2n2zSnKKuxo/lmhyBzj5XBPPzMM8Cutrzj4jf8lI+HH2fP2v+058bcZ8ryT5nvjGM/wD6q9HoXw/h/X32+Qn8X4/p+l/mUtS1rS9GSJ9Y1KzsFmfy4jdTrEJG/ujcRk+wq7XmPxc0bwF4l1Pw7pHjjUb21vpJ2/s6GyR2eYsVDKdqOACdvJx7HrXpkcaxRrHGMKgCqPQChaq4PR2HUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHL6f4Hj0eCSLRtd1exWaZ5pAkkUgZnYscLJGyr1/hA6c5PNbGj6Ja6LDMtsZJJbiQy3FxM26SdzxuY/QAADAAGAAK0KK0lUnLdlSnKW5zWoeELjU3iN14o1grBcLcRKsdoAjqcqR+4yce+fetfTbC5sFkF1q95qW8jabpIV2Y9PLjTr756VeoodSTXL+iByb3OL1JPDmi3c1mfGf8AwjyyMZZdPjvbeMZc5YgSKXTdkn5CvJJHPNSeANISw0rV3sYZbKzv9Qkmswy4cReWiB8Nk5JQsNwycgkc12FFW6z5HHuW6jcbGHoHhn/hH5Lxo9X1C8W8leeRLkQ4ErEbnGyNTnjpnHtRoPhldCub+YapfXx1CXz51uhDgyFQpYbI1xwoGOnHStyiodSTvfqQ5t38znbXwethCLTT9b1W105SdtjFJHsRSc7VcoZVHoA4x2xU3hzwrb+F1nh029u2spJHkSzl8sxwszbjtIQP7fMxrcoodWbTTe43OTVmc1qHhC41N4jdeKNYKwXC3ESrHaAI6nKkfuMnHvn3rX02wubBZBdavealvI2m6SFdmPTy406++elXqKHUk1y/ohOTe4UUUVmSc/ZeEk0yKRNK1fU7MSyvLIFeOQMzMSeHRgvX+ED3zWnpmlW+lRyiDfJLO/mTzytueVumWP0AAAwAOgq7RURpxh8KM404ReiMhvD4W8nmstTvrJLl/MmggMexmxgt8yEqTjnaR69aj07wvDpH24aZqF7At6/mMuY38t8AF1LoSScc7i3etuil7OKd0HsoXvY5yw8F2+lRkaXqeoWkzszzTRtETOWYnLKyFM89QoOMDNa2m6Vb6WkvkmSSWd9808zbpJW6ZJ9hwAMAdhV2inGnGHwoI0oR2QUUUVZoc94n8FaV4sms5dUNwrWbEp5LhdwOMqcg8cDpg+9dCBgYFFFTGMYttLchU4qbmlq9/kFIyh1KtyCMGloqizz6z+DukaZa+RouveI9LUsWkNlqPl+aSTyw244GBwBwB9a6fw14S0nwnayxaTE/mXD+ZcXE0hklnf8AvOx6nk+3J9a2qK3niKs1aUrmkqk5/EzmvE/gTS/FN5bX0899p+o2oKRX+nT+TMqHqu7B45PbucdTUegfD/SdB1Q6n9p1HUtRMZi+16jdtM+w9R2Hb0rqaKSrVFDkT0F7SduW+hwsvwm0ZLqeTR9U1zQ4bhy81ppd+YYXY9TtwcemBgAcDFHh74S6L4W14apoepaxbDcGe0W7HkSAAgBxtywGSeT1ruq5/wAZeDdP8caKmmatNdQwpMJg1rIFbcARzkEEcntWkcTVfuym7Pfr/wAOaKrKXuylo9zoKa6742Tcy7gRlTgj6V5R/wAM6eEv+gjrX/f+L/41V7RfgT4Z0PW7PVLS+1d57OZZo1knj2kqcjO2MHH41TpYa2lR/wDgP/BG40krqf4f8Envvg5Yan5X9o+LPFd2IZBLEJ9SV/LcdGXKcH3FdJ4b8J/8I3NPJ/b+uat5yhduqXvnrHjuowMGugorKWIqzjyyehnKrOSs2cTefCrRpdTnvtJ1DWNBe5bdcR6TemBJj6suD+mBzW74Z8J6P4R09rTRLXylkbfNI7F5Jm9WY8n+XPArZopSrVJR5XLQJVJyVmzxbxJafDLQtfv9Pl8TaxoEjsDeaZprzJBIWUHBURsMEHoDjntWx8FfD0unaLrd59judOs9TvC1jFP8siwAHY3PI4bqeuM9CCfUaK3li26Lp662vd32+X5tms67lDl/N3PO774OWGp+V/aPizxXdiGQSxCfUlfy3HRlynB9xXSeG/Cf/CNzTyf2/rmrecoXbql756x47qMDBroKKxliKs48snoZSqzkrNnF33wu0efUri+0nUNY0Ca6bfcf2RemBZW9SuCPyx1q/wCG/AWkeGb+bUYHvL7Up08uS/1C4M0zL1xk8DoOgrpa5/xl4N0/xxoqaZq011DCkwmDWsgVtwBHOQQRye1ONacvclJ2/QpVJS92ctDoKK8m/wCGdPCX/QR1r/v/ABf/ABqr2i/Anwzoet2eqWl9q7z2cyzRrJPHtJU5GdsYOPxrR0sNbSo//Af+CNwpW0l+H/BOg8a/DrRfHjWTay1zG9mW2NbOqlg2MqxKnI49q6iGGO3t44IEWOKNQiIowFUDAAp9FczqTcVBvRGTlJpJvY4Wf4TaMt9Nc6HqeteHvPO6WHSL7yI3PrtwcfQYHtWv4Z8DaT4Wu7m8sXvLm9ulCzXV5ctLI4Bzg546+1dHRWksRVlHlcipVZyVmzi774XaPPqVxfaTqGsaBNdNvuP7IvTAsrepXBH5Y61f8N+AtI8M382owPeX2pTp5cl/qFwZpmXrjJ4HQdBXS0UnXquPK5aA6s5KzZzXifwJpfim8tr6ee+0/UbUFIr/AE6fyZlQ9V3YPHJ7dzjqaZ4f8AaV4f1U6qLrUtS1LyzH9s1G8aaQKeo7DsO1dRRQq1RR5FLQXtJuPLfQ4m8+FWjS6nPfaTqGsaC9y264j0m9MCTH1ZcH9MDmtnw/4O0fwvo82n6JC9ss4JlnDkzSMRjcXPOfTsOwrdoolXqyjyuWg5VJyVmzzpvg3YNqa6i3izxWb5U8tbo6kvmhP7ofZnHJ4zXXeHPD/wDwjtjJbf2vqmq+ZJ5nm6nc+dIvAG0HAwOM49Sa16Kc8RVmuWT0CVWc1aTCiiisDMz9f0W18ReHr/R9QXdbX0DQyccgMMZHuOo9xVHwVDrFp4QsbLxJGF1CzU2zyK4YTqh2pKME43qA2DyCSK3qKNrg9bGfqujW2sNYm7aQLY3aXaIhADugO0NxyASG4xyorQoooAKKKKAMFvCwikk/svWNS0u3lYu9ratEY9xOWK+ZGxTJJPyFeTnrTNC8G2XhzVby80q7vEjvSrT2rsjxu4UDeWK+YWOCSS/JJJroaK09rOzV9y+eVrGHJ4YEdzNLpGrahpC3EhllhtBC0bOerbZY3Ck9Ttxk5JyTmr2l6Ra6RA8dqHZ5n8yeaVi8kz4wWZj1OAB6AAAAAAVeopOcmrMTk3uZVj4c0/T9c1PVoEY3Wp7PPLkEAIuAF44B6n3pNB8OWXhvQzpWkNLFDvkdXJDMpdieMjHy5AGQeAM5rWoodSTVm+34bA5Se5h6B4Z/4R+S8aPV9QvFvJXnkS5EOBKxG5xsjU546Zx7UugeGRoF1fzpqt9em/m8+ZboQ48zAUsNka44UDHTjpW3RTdSTvfqDk3e/Uxr/wANx3WrHVLLUL3S754hDLNZmM+ciklQyyI6kjJwcZ5IzirOlaQNM81mv76+mlxvlu5y+ceiDCL1/hUZ79BWhRS55NcoOTaszDk8MCO5ml0jVtQ0hbiQyyw2ghaNnPVtssbhSep24yck5JzV7S9ItdIgeO1Ds8z+ZPNKxeSZ8YLMx6nAA9AAAAAAKvUUOcmrMHJvcKKKKgkwr/wstzqkuoabq2oaNc3AUXTWPlEXG0YUsssbjcBxuADYABOAMaGk6TaaJpsdjp8ZSFMklmLM7E5Z2Y8sxJJJPJJq7RRsG5yUGg32ofFCfxDqsPlWemWn2PSkLq29pPmmmwDxn5UAPPyscciutooo6JB1ucQvgSa8+MUvjPWZoJoLOzS10m3UsWiJB8yRgQADlmAxng54OK7eiijpYOtwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)

In particolare:

* *r1\_load* è il segnale che definisce se il registro o\_reg1 debba essere caricato;
* *o\_reg1* è il registro utilizzato per memorizzare l’ADDRESS da analizzare;
* *r2\_load* è il segnale che definisce se il registro o\_reg2 debba essere caricato;
* *o\_reg2* è il registro utilizzato per memorizzare le working zone;
* *sub* è il registro contenente il risultato della sottrazione tra o\_reg2 ed o\_reg1 necessaria per verificare l’eventuale appartenenza dell’ADDRESS ad una working zone;
* *rDone* è un segnale clone di o\_done utilizzato in lettura durante la verifica di alcune condizioni;
* *rCounter\_load*, *rCounter\_sel*, *mux\_regCounter*, *add\_regCounter*, *o\_regCounter* e *temp* sono registri utilizzati per l’implementazione di un contatore.

## Dati e descrizione memoria

I dati, ciascuno di dimensione 8 bit, sono memorizzati in una memoria con indirizzamento al byte:

* Gli indirizzi dallo 0 al 7 contengono ciascuno una working zone;
* L’indirizzo 8 è usato per salvare l’address di input;
* L’indirizzo 9 è usato per salvare l’address di output.

|  |  |
| --- | --- |
| Prima Working-Zone | Indirizzo 1 |
| Seconda Working-Zone | Indirizzo 2 |
| … |  |
| Ottava Working-Zone | Indirizzo 7 |
| Address di input | Indirizzo 8 |
| Result | Indirizzo 9 |

Figura : Rappresentazione indirizzi significativi della memoria

# Design

Quando il segnale i\_start in ingresso viene portato a 1, il componente sviluppato inizia l’elaborazione spostandosi dallo stato IDLE al primo stato della FSM nel quale si occupa di estrapolare il valore address di input che dev’essere analizzato. Una volta memorizzato l’address d’interesse per il caso di test, si sposta nel secondo stato. Nel secondo stato viene avviata la computazione che permette al componente di individuare se l’address appartiene ad una delle working zone presenti in memoria; in caso negativo, l’indirizzo viene tramesso così come è, ed un bit addizionale rispetto ai bit di indirizzamento (WZ\_BIT) viene mezzo a 0. In caso positivo, viene computato un nuovo indirizzo secondo il seguente schema: il bit addizionale (WZ\_BIT) viene posto a 1, i bit di indirizzamento vengono divisi in 2 sottocampi, il numero della working zone al quale l’indirizzo appartiene che sarà codificato in binario, l’offset rispetto all’indirizzo di base della working zone codificato come one-hot.

Una volta terminata l’analisi il componente riporta a 0 o\_done per poi tornare nello stato di IDLE, in attesa di un nuovo segnale di i\_start.

Il componente risponde inoltre ad un segnale di i\_rst che, insieme agli altri, ci porta a definire una FMS con *data path*, che combina una normale FSM con tipici circuiti sequenziali.

Segue la descrizione della FSM.

## Stati della macchina

La macchina costruita è composta da 5 stati.

### IDLE state

Stato iniziale della macchina a stati. Attende il segnale di i\_start per passare allo stato successivo. Nel momento in cui viene alzato il segnale di i\_rst la fsm torna in questo stato.

### GET\_ADDRESS state

Stato in cui viene memorizzato in un registro, il valore ADDRESS da analizzare per individuarne l’eventuale appartenenza ad una working zone.

### CHECK\_WZ state

Stato in cui vengono memorizzati uno alla volta, i valori delle 8 working zone, ed in cui viene calcolata l’eventuale appartenenza dell’ADDRESS ad uno di essi.

Se la differenza tra l’indirizzo della working zone in analisi e quello dell’ADDRESS è compreso tra 0 e 3, l’ADDRESS appartiene alla working zone correntemente in analisi.

Se la differenza risulta non essere compresa tra 0 e 3, l’ADDRESS non appartiene alla working zone in analisi e si passa a verificare la successiva.

Nel momento in cui viene verificata l’appartenenza dell’ADDRESS ad una delle 8 working zone, o, nel caso in cui si verifica che non appartiene a nessuna delle 8 working zone, la fsm passa allo stato successivo per la scrittura del risultato finale.

### WRITE\_OUT state

Stato in cui viene scritto l’ADDRESS finale.

Nel caso in cui quello di partenza non appartenga ad una working zone, l’address risultate viene scritto concatenando l’ADDRESS iniziale con uno 0 davanti. Nel caso opposto, invece, l’address risultante si ottiene traducendo l’indirizzo attraverso un offset rispetto alla working zone codificato in one-hot, successivamente trasmesso concatenandolo con un 1 in testa.

In questo stato viene posto ad 1 o\_done.

### DONE state

Stato in cui si attende che la memoria abbassi i\_state per poter abbassare o\_done e tornare nello stato iniziale di IDLE.

## Scelte progettuali

La principale scelta progettuale risiede nel tentativo di sviluppare una FSM più lineare e semplice possibile a costo di ottenere condizioni leggermente più elaborate. Questa scelta di raggruppare in pochi stati tutte le condizioni ci ha permesso di ottenere risultati più prestazionali in termini temporali, senza sprecare cicli di clock.

L’algoritmo determina il risultato finale utilizzando come operazioni logiche solamente la SUB tra due registri e tenendo conto dei passi grazie ad un COUNTER.

Vengono inoltre memorizzate pochissime informazioni, strettamente necessarie. L’ADDRESS iniziale viene memorizzato per permettere la sottrazione necessaria al confronto negli stati successivi; gli indirizzi delle working zone vengono invece salvati per i pochi cicli di clock necessari ad eseguire la sottrazione ed il controllo sull’eventuale appartenenza dell’ADDRESS alla corrente working zone.

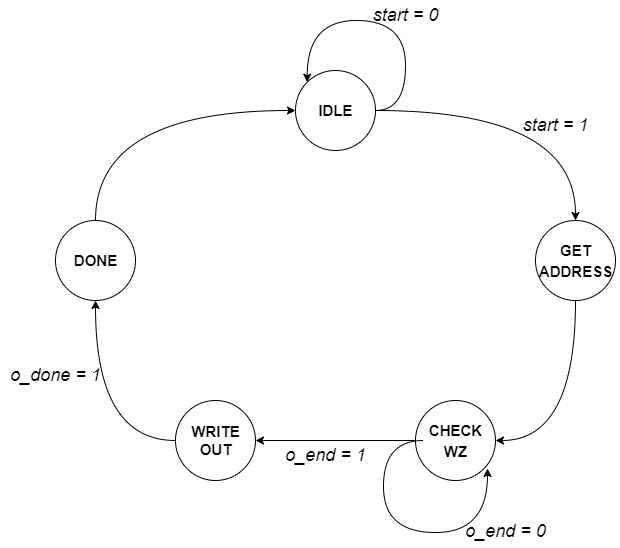


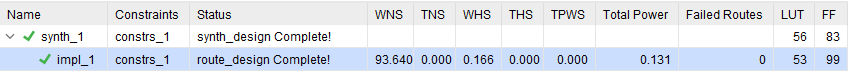
Figura : Macchina a Stati con le principali condizioni di transizione

Le transizioni della macchina a stati qui riportata risultano essere una semplificazione di quelle reali. Sono state omesse le transazioni lanciate dal comando di reset ed alcuni degli autoanelli necessari alla corretta sincronizzazione dei cicli di clock con i segnali per una corretta lettura da memoria.

# Risultati

## Sintesi

Il componente risulta correttamente sintetizzabile ed implementabile con l’utilizzo (in implementazione) di 53 LUT e 99 FF.



## Test

Il corretto funzionamento del componente sintetizzato è stato testato a partire dai test bench di esempio, sono stati poi eseguiti vari test nel tentativo di coprire la maggior parte di casi limite possibili.

Abbiamo eseguito test che presentano reset multipli durante l’esecuzione, test con reset multipli asincroni lanciati con timing di 1ns dall’istruzione precedente ed una serie di test generati automaticamente con migliaia di combinazioni di test contenenti singoli segnali di start, doppi segnali di start durante lo stesso test set, reset lanciati dopo 4 cicli di clock e doppi segnali di start con configurazioni diverse, in modo da verificare la rilettura del nuovo address dopo il secondo start.

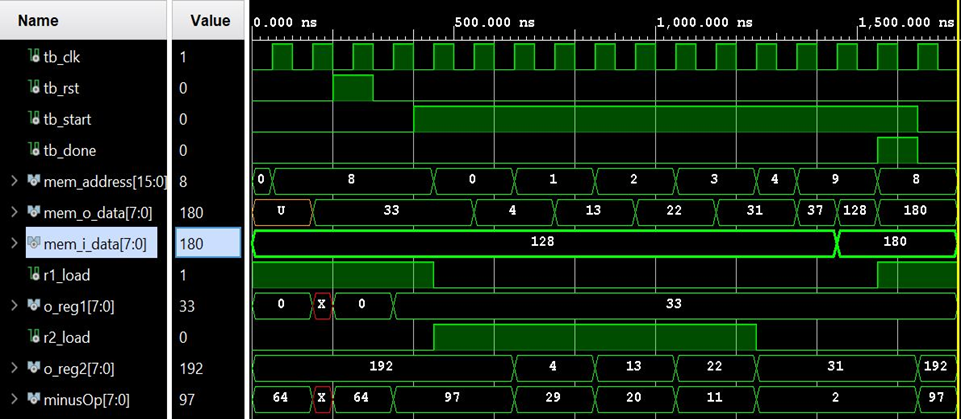
* **Indirizzo non appartenente ad una working zone:** Ingresso 42, uscita 42.  
  Il test verifica che il componente gestisca correttamente l’eventualità in cui l’indirizzo in analisi non appartenga a nessuna working zone.  
  

Figura : Simulazione con indirizzo non appartenente ad una working zone

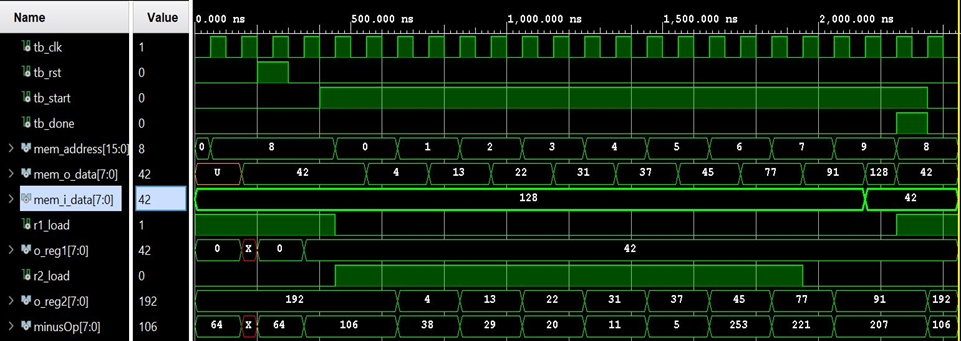
* **Indirizzo appartenente alla working zone numero 4:** Ingresso 33, uscita 180.  
  Il test verifica che il componente gestisca correttamente l’eventualità in cui l’indirizzo in analisi appartenga ad una working zone in memoria (diversa dalla prima).  
  

Figura : Simulazione con indirizzo appartenente ad una working zone

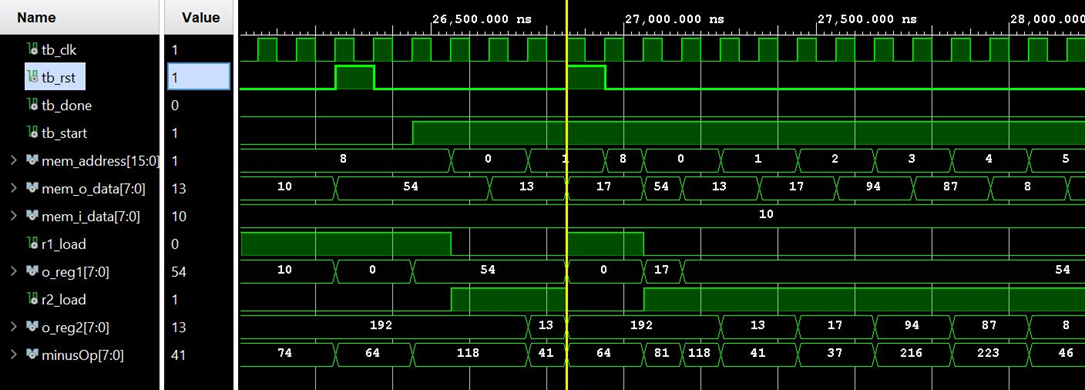
* **Test con reset asincrono dopo 4 cicli di clock dello start:**  
  Questo test lancia un segnale di reset a distanza di 4 cicli di clock dal momento in cui viene alzato il segnale di start.  
  

Figura : Simulazione con reset asincrono dopo 4 cicli di clock dallo start

* **Test doppio start:**  
  Questo test consiste nell’eseguire due codifiche senza la ricezione di un segnale di reset tra le codifiche. Il test mantiene le stesse working zone, alza il segnale di reset per la prima e dopo aver ricevuto il segnale di o\_done, modifica l’ADDRESS da analizzare e riporta i\_start ad 1. Il componente risulta quindi in grado di codificare nuovamente con le stesse working zone ma address diverso.

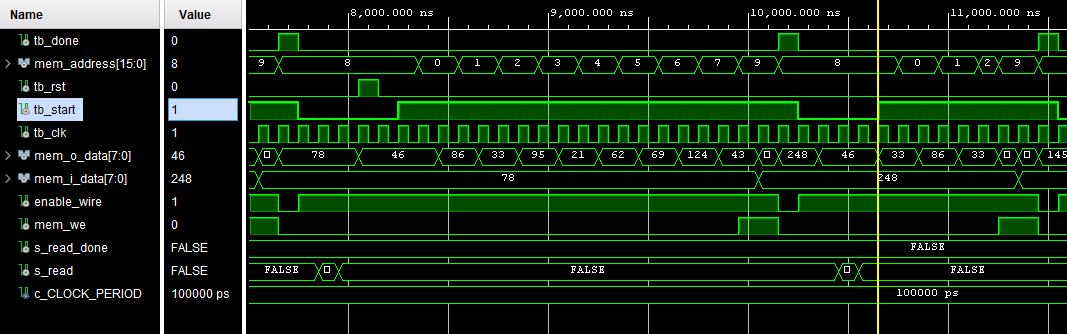


Figura : Simulazione con doppio start

# Conclusioni

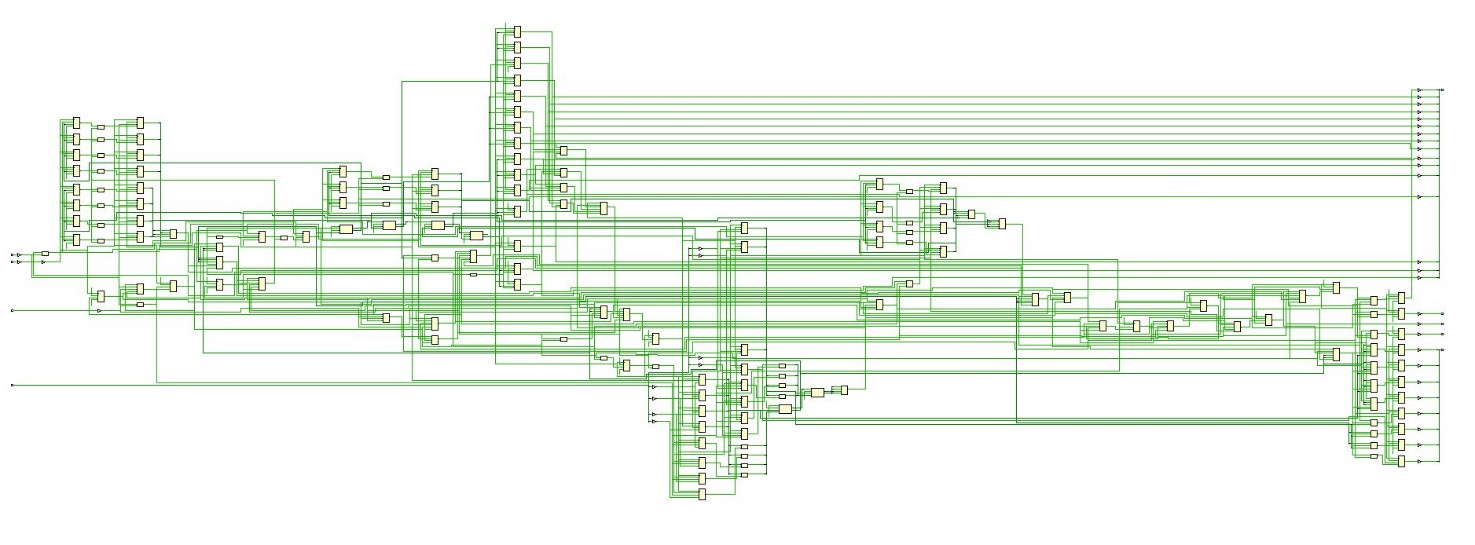
## Risultati della sintesi

Il componente sintetizzato supera senza errori tutti i test precedentemente presentati sia in *Behavioral* che in *Post-Synthesis Functional*.

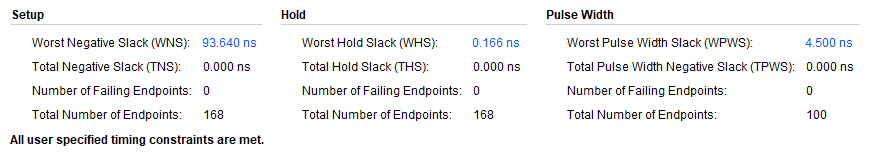
Inoltre, abbiamo calcolato il minimo e il massimo tempo di simulazione (*Behavioral*) così da fornire il caso peggiore, migliore e medio:

* **2450ns** - verificato nel caso di indirizzo che non appartiene a nessuna working zone
* **1150ns** - verificato nel caso in cui la working zone sia nella prima cella di memoria
* **≃1800ns** - rispetto a test generati casualmente

Il componente sintetizzato ha il seguente schema:



Per quantificare quale sia il tempo del path peggiore, bisogna considerare il *Worst Negative Slack* del componente sintetizzato rispetto al tempo totale a disposizione (di 100ns), riportato nella tabella:



## Ottimizzazioni

Come discusso tra le scelte di progetto, le ottimizzazioni a cui abbiamo lavorato fin dall’inizio sono state principalmente legate al creare una FSM con il minor numero di stati possibile. L’automa possiede oltre allo stato di IDLE, un unico stato per la lettura dell’ADDRESS da analizzare ed un unico stato per l’analisi di appartenenza a tutte le working zone.

È stata ottimizzato anche ciò che era necessario memorizzare all’interno del componente, esso infatti ha necessità di mantenere solamente il dato ADDRESS per permettere di effettuare il confronto con tutte le altre working zone, non è necessaria la memorizzazione di nessun altro parametro.