Esercizi per le vacanze di Pasqua - 4E

## Matrice di colori

Gli array bidimensionali possono essere utilizzati per vari scopi, per queste vacanze vorrei utilizzare queste strutture per approfondire i colori utilizzabili nella console di un qualsiasi programma in C++.

### Colori nella console C++

Il linguaggio C++ è in grado di gestire varie combinazioni di colori, noi, in particolare, ne utilizzeremo 256 utilizzando la seguente tabella:

Immagine che contiene tavolo

Descrizione generata automaticamente

Immagine 1.1

Possiamo applicare questi colori sia

#### Colore del testo

Il colore del testo si può cambiare utilizzando il codice **38** subito dopo il codice “\033[”

cout << "\033[**38**;5;" << **COLORE** << 'm' << **TESTO\_DA\_VISUALIZZARE** << "\033[m";

#### Colore dello sfondo

Il colore del testo si può cambiare utilizzando il codice **48** subito dopo il codice “\033[”

cout << "\033[**48**;5;" << **COLORE** << 'm' << **TESTO\_DA\_VISUALIZZARE** << "\033[m";

Fatta questa piccola presentazione passare agli esercizi.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 22 | 2 |
| 9 | 123 | 12 | 12 | 214 |
| 8 | 34 | 0 | 52 | 23 |
| 15 | 88 | 62 | 88 | 67 |
| 234 | 123 | 3 | 53 | 7 |

# Esercizi

1. Generare un array bidimensionale di [uint8\_t](https://en.cppreference.com/w/cpp/types/integer#:~:text=void%0A(typedef)-,uint8_t,-uint16_t) di dimensione 5 x 5 e riempirlo di valori casuali compresi nel range [0 - 255] tramite la funzione rand() presentata negli esercizi sugli array.

**Nota**: uint8\_t è un tipo int di dimensione 8bit definito direttamente all’interno del linguaggio, quindi non è necessaria alcuna libreria per integrarlo.

In particolare, il seguente codice ci permette di accedere a tutte le celle della matrice e di assegnarne un valore:

uint8\_t matrice[5][5];

for(int i = 0; i < 5; i++){

for(int j = 0; j < 5; i++){

matrice[i][j] = **VALORE\_MINORE\_DI\_255**;

}

}

1. Visualizzare la matrice appena creata in output, vi consiglio di utilizzare il character literal ‘\t’ fra un valore e l’altro per migliorarne la visualizzazione.

for(int i = 0; i < 5; i++){

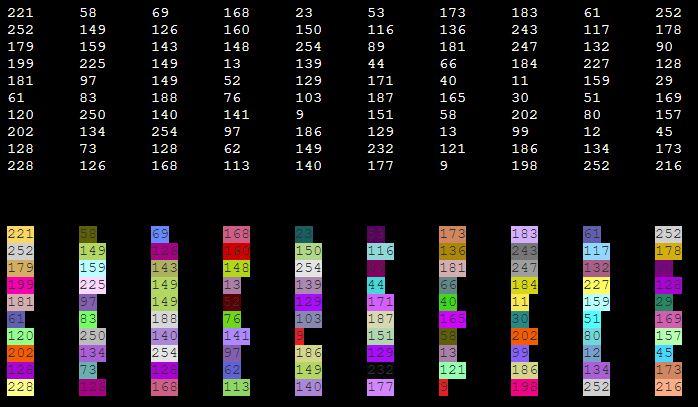
for(int j = 0; j < 5; i++){

cout << ‘\t’ << matrice[i][j];

}

cout << ‘\n’;

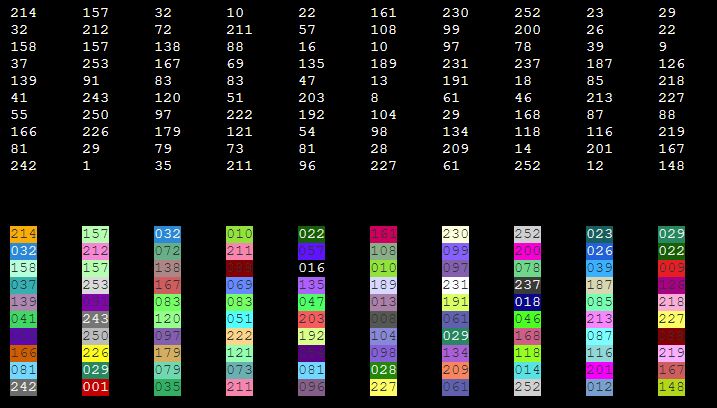
}



1. Stampare in output un’altra tabella seguendo le seguenti regole:
   1. Il colore del testo deve essere nero.
   2. Il colore dello sfondo deve corrispondere al valore presente nella matrice.

![Immagine che contiene calendario

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REARXhpZgAATU0AKgAAAAgABAE7AAIAAAASAAAISodpAAQAAAABAAAIXJydAAEAAAAkAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFsZXNzaW8gQ29ycmFkaW5pAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM4MwAAkpIAAgAAAAM4MwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMzowNDowNCAyMDoxNDoxNgAyMDIzOjA0OjA0IDIwOjE0OjE2AAAAQQBsAGUAcwBzAGkAbwAgAEMAbwByAHIAYQBkAGkAbgBpAAAA/+ELJGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjMtMDQtMDRUMjA6MTQ6MTYuODMzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkFsZXNzaW8gQ29ycmFkaW5pPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAY8CwQMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APm2t3wh4fs/EviC302/1uDSFnlSJHkgklaRmO0KioMZyR95lHvWFW94NvNI0zxRZanrtzfQxWNxFcotnaJO0pRw207pE2g468/SmrX1Jle2hXh0e0PiWfTNQ1e3063gmeN7y4ikZcK2OFjVmyccDp6kda0b/wAFtbfEw+ELe/SVjeJapdyx+WDux8xXJx16AknoKg1NvDd94snnTU9VXTblnmeY6bH5yOzE7RH5+0jp828d+K39W8WeG3+K9t4ssEv761a7Fxc2l7ZxxFAAANuJXDnqeQvIHrxnT5vd5/n/AF95c7e9y/Iwdc8P6dZ6Jb6voeqT31pLdSWjrd2i20qSIqtwgkfcpDjnOQeCBkZ56u08YeLbfW/Dtnp/9r6xr91DdyXB1DWIRHJEjIq+Un76UlSQWPIAOOK4umr63HK3QKKKKokKKKKANTw5oNx4k1uHT7Z0hVgXnuJTiO2iUZeVz2VVBJ/LqRWnrHhSw0Px9daBf66sNlasN2oPauSylQ3yxLuO4g4AJAz1YDmqnhnxNe+HrieK2uY4LO/CRXofT4LzdGGDf6uYbWIIyBkZIHIrf8VeKPD3ib4kz61JJqkFhLCvlTWtpBbz28qqAr7FYrIARn76sQfvDApO/Mu2oujMTxL4bt9GsdJ1HTb6W90/VoXkga4tvs8qlJCjBkDuMZHBDHPsRiufrrPG/iay8QQ6VFbXGo6ndWcUi3OraoipcXW58qrBWc4QcAs7E7iOAAK5OhX19X+ehTCiiimIKKKKACtfQNJ07Uftk+tauumWdpFvJSJZppmJwqRxF13HqScgADk9M5FdR4JvvCmnXF1deK4Lu4uIwpsEjtUuYA+fmaWNpYy4HGF3YJ+8COCAWJfAWzxRBp66kP7Ol05dVa+e3IeK0Me8s0QJO8DjaGIJI+bBzTB4Kt7vWPDcWlapLPpniC4FtDdz2ojlhcSBHVohIwyNysMPghhyDkC23ivSYfGl1qCXmr39pqlhLaaldXlvEtwXlQqzxxq+0AHaVQt0GMjjFPUdZ8PTRaDoyDU7rRNNaV7icxx21zK8rDcVXdIqgBEwCTnDcjPBF6pv+tX+Fra/8MJ3s/66L8bkHjHwonhaS3j8vXo3mL/8hfR/sIYLjlP3r7+vPTHHrXNV1WrazokHgqPw7oM2o3ofUPt0tzfW6W+wiMoESNZJOucliwzhRjjNcrSRTswooopiCiiigDd8IeH7PxL4gt9Nv9bg0hZ5UiR5IJJWkZjtCoqDGckfeZR71BDo9ofEs+mahq9vp1vBM8b3lxFIy4VscLGrNk44HT1I61Y8G3mkaZ4ostT125voYrG4iuUWztEnaUo4bad0ibQcdefpTtTbw3feLJ501PVV025Z5nmOmx+cjsxO0R+ftI6fNvHfik78y7a/pb9Q6P5f1+RX8WaCPDHizUNGW6N2tnL5YnMfl7xgHO3Jx19TWPXUfEHVtE8QeKrnWNBnv3F7IXlivbRIfK4AAUrK+7oeoXHHWuXpRvyq+43voFFFFUIKKKKACtrw7odrqy6hc6lfSWVlp1uJ5ngtxPKwLqgCRl0B5cZJYAD3wDi11PgjxLbeHv7UWe6v9NnvbdYoNU02MPcWpEisdoLpwygqSHB+vIpqwgl8IWUHiiOxuteht9LkskvxfzRhZPJaMOo8nfkynIURhjk852/NVTxH4dt9HsdK1HTb6S90/VYnkgae38iZdjlGDIGcDkcEMQR6HIroLjxJ4R1vxwmo+J01a+sYNPjh87yV8++uEQKJZ180HB5yFk3EKPmGTjI8b6xpWuX1td6Zd6hdT+WY5vtNnFawwopxFHBFG7hEVeMbuvPc1neWn9d/+B/TK0/r5HMUUUVYgooooAKKKKAN3wx4eg1z+0p7+9ks7LTLQ3Vw8Fv9olI3qgCx7lzywySwAHJNaE/gu1ttftIbvWhaaPd2A1GLULq2MUjQYPAhLfNIWUqFViDwQ23msrwxqEWmasbqTXNW0R0jIjutJhEk2Tgbf9bHgEZ53fhXVXnjLw34l8ZQXfi+PWLnSNOsfstnuYT3Fw4YsJLgl0J3FmZgrgjhQ38VNra39b/8AF1v/W3/AATm/Efh230ex0rUdNvpL3T9VieSBp7fyJl2OUYMgZwORwQxBHocisGun8b6xpWuX1td6Zd6hdT+WY5vtNnFawwopxFHBFG7hEVeMbuvPc1zFRFtq7GwoooqhBRRRQAVu+EPD9n4l8QW+m3+twaQs8qRI8kEkrSMx2hUVBjOSPvMo96wq3vBt5pGmeKLLU9dub6GKxuIrlFs7RJ2lKOG2ndIm0HHXn6U1a+pMr20DTPC51HxVd6U12ILax86S6vDGW8qGLJd9gOScDhc8kgZHWpdT8MWVsNJu7HWQdI1QSCO9vrZoTC8bYdZI4zKRjKnK7shh3yBeg8QaJp3jTULuyn1C40rVra5t7p5bNI54hOGB2IJWVtpKnlhnBHHWq2satol3Z6HoVlcX/8AZOnGZ5byWzQTu8rAsREJSuAqIAN/JycjOBEL8sebf9db/IuW7tt+n+ZV8YeHLfwzq1va2WpjU7e5s4buO5EBhDLIuRhSScfXB9QOlYNdb431Xw7rEemS6HeanLPZ2VvYvHeWEcKssSbd4ZZnOSQPlx36+vJURvrfu/z0/AO3yCiiiqEFFFFAG74Q8P2fiXxBb6bf63BpCzypEjyQSStIzHaFRUGM5I+8yj3pdM8NJf8Aiu60ma98iCzFw81wIt7eXCrMxWPI3MQvC5HuQMmjwbeaRpniiy1PXbm+hisbiK5RbO0SdpSjhtp3SJtBx15+lbGn+JNC0bx/davYXOpSW11DcBLtrKOO5sppQwEkaCVgxTIIO9T16YBo15l2s/v6B0fy/wCCZWq+G7Czm0iaz1pW0zVY2kjur22MTw7ZGRvMijMhAypwVLZHuCBLrvhfT7Lw3Brug6tPqNhJeyWTG6svsz+Yqq2VAdwykN1yCO4GaveJPE+j6/qGhJqdzrWsW9lG8d7qVyEhvbhWkZgBl5RhAeMsc8j5etJ4q8U6fqnhSy0mHUNX1y7t7kyrqOrwpE8EOwKIEAkkJUn5uWAGBheSTOrj53/X/IenMcZRRRVCCiiigArX8N6A3iDUJYnu4bCztYWuby8nBKwRKQC2ByxJYKFHJLAcdayK6vwB4vXwlqV+0xmih1Cye1a5to1ee1YkMksYYjJVlU43L65BANNWApW+gWet+I7XS/C1/PcJMpZ7jUrZLQQhQWdm2ySfIqqWJzng8etbXLTQ7OVY9B1a81PazLJJPYC2Q46Mn7xmYHn7yoenHYdhF8R7Wy+Imka6gu9Wis7P7HeXeoQxi5vQwdWkZdzjcFcKMsxIQZODgY/jXxRb+ILPTIE1HU9ZubQymXU9WhWOd1cqViAEkh2LgkZY8ucADqn5DOSooooEFFFFABRRRQBo6LZaZeXEp1vVjpttFGWzHbNPLKeyogKrnP8AedRjPJPBteK/Do8N6pBBFdG7t7u0hvLeV4fKcxyLuUOmTtb2BI7gnNJ4ZvNMsb559QvtX0y5jAazv9KCs8Dg85QshORkZDqQf73SrPjjX7LxFrkN3p63L+XaRQTXl2qrNeyqPmmkVSQGPA+8xIUEsSSaH0t/W/8AwAXW5zlFFFABRRRQAUUUUAFa+geHJ9e+2S/a7XT7Oxi825vbwuIogThR8isxZjwFAJPPYGsiuo8E2Hha5uLq48XarHarbBWtrKVZ1S8YnkPJFG7IoA5wuTnAK9QwK9x4Ou7XxFBpdxf6bFHcQJdRX8tyI7d4GGRICwDYxn5du/IxtzxU0vge8GraHZ2eoWF9Dr0gjsr2BpBCzeZ5ZDB0V12t1yvTkZq7rcmmav42Sa88WWkkbWqtHdQ6ZL9jtpFHyW4iYbxCuAu4I3H8J5q/4i1vStQvvC0X/CRqlzYK4utU0axeG3tsybozDCRFhl5LFETOQQGYEmY9L9/w1/4H9NA+pyOtaPa6SyLba9p2rOWZXWyS4XysevmxJnPtnpWXXd+LdfjvfBltp2peKW8V6st+Z47wi4cWsHl7TH5k6q53NtO0DaNmc5NcJQrjdugUUUUxBRRRQBs+F/DF34r1iPT7K70+0d2VfMvrtIVyxwAATuck8YQMeelUJNNuU1h9MjjM90s5t1SEFjI+7bhR1OT0rX8DfYIfGGm3+q6va6Zb2F3Dcu1xHM/mBJAxVRFG/wA2B3wPetAeIIvCXxBudZ0S40rXVmMzRyGO5VIvMLDuIpFkAP3l6Z4Oeh9pLpr+lg6P5Gf4o8Far4T8Q2+i3xgur24ijkRLNjJkuSAnQZbII4yM9Cai1/wx/wAI6DDd6zpk+oxuEuNPtXlkkt2xkhn2eUSOhCu2Dx2OOy8SeLdAtfG3g7WNIGm3sGj29stzFp63agNE2So+0YJA/hPX+9ms/wAd6p4fvtLlXTrjR7u4bUDJYnTNNe1a3tdrZSdmjTzGJ8vBy5BVvn55lXcbvu/uvoNWv8l+RwNFFFUIKKKKACtLQdBvfEeqCx04RhgjSyzTSCOKCNRlpHc8KoHU/gMkgVm12Hw68Qadod9qsOrJarHqOnvbRXF3A00MEoZZI2kjAbcm5BkbW7cEZBat1Az7Xwn/AGj4gj0vSdb02+RoXnmvYxPHBboilnZzJErABVzwp6gDJ4qrregNo0drPFqFlqdndqxhu7Jn2FlOGQq6q6sMg4ZRwwIyDXSX2sWcfjbS7zw/rWk6ddw2gW81SCwkispJsOCRAISdpQqhHlAMdx24JJZ498VW+raLomh2l1b340sSyS3lpYrZ27yS7SUiiVEwq7fvFVLMWOOmU/6/EelziKKKKBBRRRQAUUUUAbPhfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpRpfhm51TxRLoi3VrbSw+eZbicv5SLCjO5+VSxGEOMKT7VY8DfYIfGGm3+q6va6Zb2F3Dcu1xHM/mBJAxVRFG/zYHfA96vM1lafEC4u9O8ZrYiYzT22rafFcgQuxbCPlUkUEcFkV8buh5wfaXaz/wCACtrfyMW50SJdVgsdM1nTNTM44nike3iQ88M9wkQHTOenI5qTxP4ZufCmqR2N5dWd20tvHcJLZSmSNkcZGGwM/UZHoTW/4v1Sz16Hw/YXXiWPVtRt1lW9124jnKbHcGNCzJ5zhPmOSnG/ABAqLx++kXa6RcaR4gsdTa1062sZYYIblHDRx4Z/3kSKVyOOc8jipbelu/8AmNat+n+RxlFFFUIKKKKACtbRdEg1aG6lutd0zSI7bZzftLmUsSMIsUbs2Mc8YGRWTVvSorOfWLOLVLg21i86LcTBSxjjLDcwABJwM9BTSu7CexrX/gvULbxNZaFp81tq13fQxTW5sy4VlkXcufNVCvy4Y7gAAcniqeuaNb6NKsUGu6bqsm5lkFgZmERHqzxqrA84KFgcdcYz1GjeN9P/AOFwz+I9athJpt3JPC0ZUnyYJI2iX5QRkKhAI7gHHOKz/Gt9pd5Z6YtrcaTe6lGZTdXWj6e1nAYyV8tChjjy4+fLBBwyjLY4non/AF6F6XaOSooopkhRRRQAUUUUAbPhfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpUVroFzd+IJNIW5sYJopGjea6u0t4V2nBO+QqPw6nsKu+BvsEPjDTb/AFXV7XTLewu4bl2uI5n8wJIGKqIo3+bA74HvS6vp+m3njC6WDxLphtLqSScXxiuhEm5iQjDyd+7p0UjnrSd+ZfP9P+CHR/Iz/EWh3HhrxDeaPeywyz2cnlvJASUY4zkEgHHPcCr/AIo8E6r4Qs9Lm1nyUfUoTMkCMTJDjHyyAgbW+YcZOO+DxW74v17TrL4pnxXoF/pevRvdfaY7eS3n2oVC4EiyImcnkbSenOKk8f8AiPSNe8HeHhZyaWdSikuJb2Kz+2l42lfectOSGyT8x3Md3Q4qby5Yv7x/aZ57RRRViCiiigArX8PeHm1974nULPToLC2+0z3F4JSipvVOBGjsTude1ZFdD4Rums7u6ltvFs/he88oLDcxidUlG4bkd4cuvAyMIwJHOOtNW6gZGo2kNlfPBbahbajGoGLm1WRY2yM8CREbjpyoqrXUeP8AWLPWdas5bS+bU54LCGC81Jo2Q3s65zJ82Gbgqu5gGOzJAzXL1KAKKKKYBRRRQAUUUUAbPhfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpUNroUtz4gk0l7yytXikdJbi6uBFCgU4Ztx5PToAWPYE8Ve8DfYIfGGm3+q6va6Zb2F3Dcu1xHM/mBJAxVRFG/wA2B3wPerF7Z6NN43uWPiaz+yzvJcw30dlNLCkhYskcqOivjpkqjjkcNzha8y7a/pb9Q6P5FXUvB91Yz6YLfUNOvrbVUZrS9iuPJhfaxVgzTiMoQRzuAHIxnNQ+J/DNz4U1SOxvLqzu2lt47hJbKUyRsjjIw2Bn6jI9Ca6DxlqWma4nh2xXW7GW5topY7u9tbSW3sYlaQsgSERgggElikSg5HDHJMPj99Iu10i40jxBY6m1rp1tYywwQ3KOGjjwz/vIkUrkcc55HFJ3X3v7tbfoPS/y/wAjjKKKKoQUUUUAFaWg6De+I9UFjpwjDBGllmmkEcUEajLSO54VQOp/AZJArNrsPh14g07Q77VYdWS1WPUdPe2iuLuBpoYJQyyRtJGA25NyDI2t24IyC1bqBn2vhP8AtHxBHpek63pt8jQvPNexieOC3RFLOzmSJWACrnhT1AGTxVXW9AbRo7WeLULLU7O7VjDd2TPsLKcMhV1V1YZBwyjhgRkGukvtYs4/G2l3nh/WtJ067htAt5qkFhJFZSTYcEiAQk7ShVCPKAY7jtwSSzx74qt9W0XRNDtLq3vxpYlklvLSxWzt3kl2kpFEqJhV2/eKqWYscdMp/wBfiPS5xFFFFAgooooAKKKKANnwv4Yu/FesR6fZXen2juyr5l9dpCuWOAACdzknjCBjz0pLHw+LrWr3T7zV9O0v7EJDJcXruI2KNtKqERmZj2AXPBqz4G+wQ+MNNv8AVdXtdMt7C7huXa4jmfzAkgYqoijf5sDvge9VvFMVmviS7k0/VbXUoLmV5lmtkmVV3OTtIkRGyBjOARz1NJ35kl5/pYF1+X/BL114Huo7/RLXTdT0/VW1vP2R7UyoMBymW82NCBuDc4x8p9Kq614YfSdNg1K11Ox1awmme3+02Pm7UlUBijCWNGBwwIOMHnB4NdBJ4k0T/ha+kXbSyy+H9Ha3tbeVVZW8qEACTAw3L5cjg8nvTPGWtWN74VsrI6npOpail/LP5mjae1nBHEyIMMhhiDOWX720nAwT0FD0jdd/wv8A5f10GrXs/wCtH+pw1FFFMQUUUUAFaOiaBqPiG6lg0qFJGgiM8zyzpDHFGCAWeSRlVRkgZJHJArOrrvAuhRa6uoR6h4gh0zTYhG9xZtfw20t/8x2pGJnWMkcncx+XOQGPBAMxfB2uN4jXQzaIt+8RmUPcxLG0QQyeYJS3llNgLbg2CO9UtW0e50a4SC8lspHdN4NnfQ3S4zjlonYA8dCc12+oXOqr8RLeWw1jw5YXEOm+XYxC8iubWCHy2QWjSsGiZ9hYEudpJ5YZFR67e6Rpt54YvNasNG1XUrdpZNVs9IkhjgmjDgwqzW4MW/G7OwH5dobmkmnb+u/9f0gdktDktW8NavoVjp13q1k1rDqcPn2hdlJkTj5sA5XqDyBkEHpWXXp/xR1Wz1zwh4b1COUyX0klzJOkmt215LEJH3KrpEileMYGFCgbSM15hSi273QwoooqhBRRRQBo6JoGo+IbqWDSoUkaCIzzPLOkMcUYIBZ5JGVVGSBkkckCrX/CHa+fESaGunO9+6CRUR1ZGjIyJRIDs8vHO/O3HOcVp+BdCi11dQj1DxBDpmmxCN7iza/htpb/AOY7UjEzrGSOTuY/LnIDHg2/EdlNrPjaC3n1Dw7CsdjH9jtk1ISW0USD5LVrhTt8zAwWLgEn7wyKHo0v66/1b/NB0b/rp/X9M5+98Ja3YalYWMtms02pY+xm1njuI7nLbMJJGzKx3DBAPB60a54T1jw7FHLqcEPkySNEJra6iuYxIv3kLxMyhxkZUkHnpXcatCmoah4O0rTtc0bw5eRRXCTLZ6oGs9OVnZt/2gMx3ON2VMjn7oyAwUZnjezi0nwrZaXpF7pzaXDdsxRNSt7m7u5yg3XDrC7rGmBsVNxxjnJOamTaXz/C/wDl977WY1a/9f1/XocDRRRVCCiiigArW8PeF9b8V6h9j8PabPfTDBfy1wsYPd3OFQe7ECsmul+H9m1x440m5NzZW0FlewXE8l5ew2yqiyKSQZGXcQB0GT7U0rsmTaWhlWehajqGtnSLS3D3qs6shkVVTYCXLOSFVQFJLE4ABOaXWNB1DQriGLUY4h58fmwyQXEc8cq5K5WSNmVuVI4PBBFdnpEEGl/E/U/7RvNNlS6tr1rdV1KF7a6MiuEilmR9qK3fLKRxyuQas6hquk6T4j8Cy3yWUEWmSebeafpN4Lu3tl+0lwyv5kuWYcspcngDjipg+ZQv138ty5WXNbocXrHhPV9Atkl1iK3tXYqDaveQm5j3LuG+AP5icc/Mo6j1FY1ehfEGz0RbO5u7aPTIr59TYW0thq/21723IYtNOPMfY+dh/gzvYbOOPPaEDVtgooopiCiiigDS0Tw/qHiGa4j0xID9mh8+Z7i6it0jTcq5LyMqjllHXvUsPhfVrnxANFsoIb29Izizuop4wMZLGVGKBQOSxbC85Iwav+C5NUin1A6JqWj2s72wje31byPLuoy6kqPtCmLIKq2GKnjjPStTxFpunap4usbexvNAhvF06N7/AGTLBZTXaglo0dMRKWUKCVKx7t2GFN20/rv+H6hdWf8AXY5jWvD2peH5LcanDGqXMfmQTQXEc8UqglSVkjZlbBBBweD1rMrufiFPanR/DdpC+mwXFtBOJtN0q7F1b2oaXKsJQz5Z+SVMjkYHIBCjhqlX19X+Y2FFFFMQUUUUAFa3h7wvrfivUPsfh7TZ76YYL+WuFjB7u5wqD3YgVk10vw/s2uPHGk3JubK2gsr2C4nkvL2G2VUWRSSDIy7iAOgyfamldkybS0Oentpba7ktpk2zROY3QHOGBwRx15rYv/BfiDS/ElnoGoac0GqXvl+RbNKmW8w4QE5wpJ4wSMd8Vtx39v4N+J0+qalZ2usL5ss9qLLU4XVGZm8uUSJ5iBlPzBWB5wSK3vHNxDJ438I3WjavaWd5FZW4a/utYh1BIJ0Ykea8SHkMeWYENnOAAazjJ8sG1u9fuf4lyVpSS6f8A8+1jw9e6F5f26XT3MhIAs9St7oqR13CJ229e+M/hWXXd+LyjeDrdtcfQG8QNqBMX9i/Zf8Aj28v5vNNr+7+/t25+b73bFcJVL+v6/rUHboFFFFMQUUUUAa3h7wvrfivUPsfh7TZ76YYL+WuFjB7u5wqD3YgVmz20ttdyW0ybZonMboDnDA4I46810Pw/s2uPHGk3JubK2gsr2C4nkvL2G2VUWRSSDIy7iAOgyfatKO/t/BvxOn1TUrO11hfNlntRZanC6ozM3lyiRPMQMp+YKwPOCRRrzJd7/oHR/I5zxB4b1bwtqCWOv2bWd08KzCJnViFbpnaTg8Hg8juKy69C+Lstlc6joU1lOs8g0qKO4caxBqDCRc5V3iA+YZ5Y/ezkYwa89qYttO/d/gw6L5BRRRVAFFFFABWtovhnU9fhuptOW1ENps8+W7vYbVE3EhRuldQScHgVk1b0qzj1HWLOymuYrSO4nSJ7iZgqRKzAF2J4AAOfwppXdhPRE2taBqHh++jtNTjiWWWJZo/IuI51dG+6weNmU5+tP8AEHhvVvC2oJY6/ZtZ3TwrMImdWIVumdpODweDyO4rpD40063+Ktz4hfS/t9nC5j06FJxD5CoojgcFkdcoqqQCpGRyKtfF2WyudR0KaynWeQaVFHcONYg1BhIucq7xAfMM8sfvZyMYNZuTtFrq/wALN/ftcq2rT6f8A89oooqxBRRRQAUUUUAa3h7wvrfivUPsfh7TZ76YYL+WuFjB7u5wqD3YgVDZ6FqOoa2dItLcPeqzqyGRVVNgJcs5IVVAUksTgAE5rV+H9m1x440m5NzZW0FlewXE8l5ew2yqiyKSQZGXcQB0GT7Vv6RBBpfxP1P+0bzTZUura9a3VdShe2ujIrhIpZkfait3yykccrkGj7SXk/w2Do7+RyV54V1iy1ay02S1Wa5v9v2QWs8dwlxuYoNjxsyt8wK8Hggg07XPCeseHYo5dTgh8mSRohNbXUVzGJF+8heJmUOMjKkg89K7TU4Fv9X8I6Vp+saR4au44J1mNpqweysA0jtuE4lk+Z1zkFyfujgECqHjezi0nwrZaXpF7pzaXDdsxRNSt7m7u5yg3XDrC7rGmBsVNxxjnJOahydr+f6/16+lx6XOBoooqxBRRRQAVo6JoGo+IbqWDSoUkaCIzzPLOkMcUYIBZ5JGVVGSBkkckCs6uu8C6FFrq6hHqHiCHTNNiEb3Fm1/DbS3/wAx2pGJnWMkcncx+XOQGPBAMpvCOtp4hTRGssXzp5qL5yeW0e3f5gl3bDHtBbfu24Gc1W1jQr/QZ4YtSjiHnx+bDJBcRzxypkrlZI2ZW5Ug4PBBFehR3ca/En/ia3ejCH+xJLeysbXUkktEXyWWO0muAQvszbxychhkEYXj+W2/s3w9aQiwtp7a2mE1hpd6Lq2t90zMpWQSSZZgcsC5IwvQYFTzbf13/wCB/VmPTX+uxxVFFFUIKKKKACiiigDW0Xwzqevw3U2nLaiG02efLd3sNqibiQo3SuoJODwKsSeCdfj1+DRlsknvbiFZ41trmKaMxEZEhkRigTHJYsABySBWZpVnHqOsWdlNcxWkdxOkT3EzBUiVmALsTwAAc/hXQ6rLB4x+Id9LaXGn2ttuK2Ud/MYIZIYlCxRb+AhKIBlmUf7Qo6oOjZja14e1Lw/JbjU4Y1S5j8yCaC4jnilUEqSskbMrYIIODwetZldz8Qp7U6P4btIX02C4toJxNpulXYure1DS5VhKGfLPySpkcjA5AIUcNSV9fV/mNhRRRTEFFFFABVvTdK1DWb1bPR7C6v7pgSsFrC0rkDqdqgmqldr8PfDXiPxNFq9tocktvpvlRrqs8FsZ5fKL5CKiAyOSV+6uAdo3EAZDA5C8srrTryW01C2mtbmFtskM8ZR0PoVPINPvtNvtMmSLUrO4s5JI1lRLiJoyyN91gCOQex716HrF1aaZ8TNPl8c6JqVnYWOnQpYWcsSTXDoi7YGuIy65yRlkyv8Ad6Ve+K0GvJ418M3untr7a5daZCUlksGtbl5cnO1UZiH+Y5Vfu8DnNZ82kfN2/P8AHTboHf0/y/zPLr7Tb7S7gQanZ3FnMyLII7iJo2KsMhsEA4I6Gq1ehfFjSPEEF1oup65p+pR+ZpFnFNd3kEg3z+Xl1Z2HL5BJBOeua89pxd7+r/Mfb5BRRRVCCiiigCeysrrUryKz062mu7mZtscEEZd3PoFHJNRSRvDK8cqMkiMVZGGCpHUEdjXZfCseI28d6cnhoaoYmu7f+0F0/wAzaYPNXPm7P4Oud3FS/ZbPwz8VLmXx5pOpQwLPNcQ27WeTKxdvKYxuyb49wyQGG4DGaPtKPe/6B0fyOPvtNvtMmSLUrO4s5JI1lRLiJoyyN91gCOQex71YuvD2tWWkwape6Rf2+n3GPJu5bZ0hlyMja5GDkAng9q9V8fwW6fFLwTfeLH1EwXNtaNfy6rpwt94EmX3LvI7nevRfesP4oeHfI+265fxa5b376mbbzdYdWGpptP76ABF2ou1Rgb1AdAG4wZTvG/m19zsNK7+S/K55rRRRVCCiiigAq3pulahrN6tno9hdX90wJWC1haVyB1O1QTVSu1+HvhrxH4mi1e20OSW303yo11WeC2M8vlF8hFRAZHJK/dXAO0biAMhgcheWV1p15LaahbTWtzC22SGeMo6H0KnkGn3um32mzxw6jZXFpLJGsiRzxMjOjfdYAjkHse9eh6xdWmmfEzT5fHOialZ2Fjp0KWFnLEk1w6Iu2BriMuuckZZMr/d6Vo/FCx1ybx34WnsbjVo9cvNNhKXF9CunSNMCTkMZMK+TyuRtJABORUc1uXzdvz/HTboHf0/y/wAzzLVvD+s6BJEmu6TfaY8wLRreWzwlwOpG4DNZ9ek+MbC5034W6fBeaZqWiyPq8kslprT7rm5cwrumTKoRHxggp1YfO3QebU9btP8ArT+v60H0uFFFFMQUUUUAPhhluJ44LeN5ZZGCJGilmdicAADqSe1X7zw3runapBpuoaLqFrf3O3yLWe1dJZcnA2oRk5PAwOtdb8Ivsx1vWAZLtdSOlTf2eljgXMkgKlkhYg7ZGjDqCAThiQCQAW3nhXUdJ8X2dp4Th1ezvrnTvtE+lSXaxX8KncJIMgKXZkXcFCbirj5D3bVrf13/AMgWz/rt/mcdqekalol59k1nT7rT7naG8m7gaJ9p6HawBxVOvQPiRaPp/h7wnZvZXWlLDbXAXTNRfdeQAzE7pDhflYk7fkT7rcH7x8/qVfW/d/mNhRRRTEFFFFABVnTtNvtXvkstJsri+u5M7ILaJpJGwMnCqCTgAmq1dF4Q0/WdSnvIdHttSv7bygL+w0u6EU9zCWAwFwxcA4JwjgdSB1poT0MiXSNSg1f+yp9Puo9R8wRfY3gYTbz0XYRnJyOMd6NT0nUdFvTZ6xYXWn3IUMYLqFonAPQ7WAOK9ZvVeH4ixWiJLBqLeEzbadZkk3dpP9nYRwuQc+dgHBwpO9RtXO0cd4xtLnSvBvhbS9Zt5rTVrcXbyW9zGUmigaRfKDAjIBYSsAf72f4uZ1W/9av/ACv10H/X5f8ADepxlFFFMAooooAKKKKANHSPD2ta+8qaFpF/qbQgGRbK2eYoD0J2g46Ul34f1mw1aLS77Sb621CYqI7Sa2dJXLHC4QjJyenHNGjQX+p6hBomnzSKdTuIoTEHISRi2ELAdcFvw5rvrHU7fUfilrMOj7/3el3Om6GIiS+6OAxxbCOQzBTjHJL+pod/z/D+kH/A/H+meeanpOo6Lemz1iwutPuQoYwXULROAeh2sAcVUrs/GNpc6V4N8LaXrNvNaatbi7eS3uYyk0UDSL5QYEZALCVgD/ez/FzxlABRRRQAUUUUAFT2VldaleRWenW013czNtjggjLu59Ao5JqCu0+FY8Rt4705PDQ1QxNd2/8AaC6f5m0weaufN2fwdc7uKaV3YmTsrnLWelajqGpjTrCwurq+ZmUWsELPKSMkjYBnIwc8dqsXvhvXdN1KDTtR0XULS+uceRaz2rpLLk4G1SMtk8cd66uDTPE2i/FS/W28PtNqDi7kTTtQjeI3UDiRG2LuR3JUtgIdxxxnFW77RrnRte8H3ul6BbaJ4lmnaVtFnndEDRygwsyzyb038jazjO0FcbhUwakot9S5Wi2l0OJ1fw1rvh9Ym17RdR0wTEiI3tq8PmYxnG4DOMjp61mV3njDQha+EINU1bwwvhbWJNQaJLMGdDdQ7NzSeXO7uNrYG4EKd+MZFcHQmDt0CiiimIKKKKALOnabfavfJZaTZXF9dyZ2QW0TSSNgZOFUEnABNNvbG70y9ls9StZrS6hO2SCeMxuh9Cp5FbfhDT9Z1Ke8h0e21K/tvKAv7DS7oRT3MJYDAXDFwDgnCOB1IHWtX4qxvD4j02GRGgMWkWsYs5jme0CpgRTHPMgAyeF4ZflX7oHpZr+t/wCv61Frf+v6/r5cRRRRQAUUUUAFFFFABU9lZXWpXkVnp1tNd3MzbY4IIy7ufQKOSagrtPhWPEbeO9OTw0NUMTXdv/aC6f5m0weaufN2fwdc7uKaV3YmTsrnJwafe3WorYWtpPNeu/lrbRxM0jP/AHQoGc+1T3Wg6xY6tHpV7pV9bajIVCWc1s6TOW+6AhGTntxzXbaf4S8aSfFDVtP0ayutMv5o7mZ5Li2ZHS1ZirSKCpcgg7QYwWOSBnJq7rln4g0PxJ4L0/TNInhTTHP9kNrQFtJfSLNvdnR3UxoX4VCQcEckmohK6g31/p/1117FyVnLyOA1fw1rvh9Ym17RdR0wTEiI3tq8PmYxnG4DOMjp61mV3njDQha+EINU1bwwvhbWJNQaJLMGdDdQ7NzSeXO7uNrYG4EKd+MZFcHTTB26BRRRTEFFFFAFvTdK1DWb1bPR7C6v7pgSsFrC0rkDqdqgmlk0fU4dY/smXTruPUvMEX2NoGE289F2Y3ZORxjvW/4Cmvjdapp9l4f1HXodQsTBdW+mFluETerB1dUfaNyqDlSpBwR0rp/FEFzceMtH0vwcl7Hqmn6KttfWttqge5ypcvAJePMkEZClEU4wVC4XAb0t/Xf/AC/H5Atn/Xb/ADPOdT0jUtEvPsms6fdafc7Q3k3cDRPtPQ7WAOKp16B8SLR9P8PeE7N7K60pYba4C6ZqL7ryAGYndIcL8rEnb8ifdbg/ePn9Sr637v8AMbCiiimIKKKKACiiu6+FVpZyarrGoXNxDBcaXpcl5avLbfaDG6su6RYjhXdULlQxA3bSeASGgOForp/HS3z6hp95feINQ16G+sVntbnUt4nWPe67GVnfbhlfGGIIIIPNcxSAKKKKACiiigAooooAKK6v4aazeaR8QdG+wGBWub+3hd5LaOVlVpADsZ1JQ4JG5SD71o+HDHH8RvEN0CovLO31C6sCwBK3EauyMAeCwwWHuM9qTdnbyb+4P+B+JwdFeltqmpXP/CAeIJ7e613xAt1PKyb2kubyGGZWjycMx5EqhiDwuOi4FPxjey+KfBUHiQ3/AIheKHUmshbazqZvly0e/dE+xNuNuGXB6pz2qnor/wBdEvz+QKzOAooopAFFFFABRRXW+AX8Qx3GoN4YMNjI0Kpc61NIYhp0RYZbzc4j3YxkAuei8nBAOSor0DXtY1KXx9Dq2g2160lpYRu+qPpwkmuY0XDX+xxwTjcHJyMAlgea0fE2sxQS+A/Et59p1+1jMjPe6mmy6vRHPllkUlhhQwCne4PcjBUC1t62/PX8PIHszy6ivUvGt5ba18ME1e51rW9XuJNZK2E+twRxSeV5beake13LIG2ZO4KDgBQc58tpJvqNrqFFFFMQUUUUAFFdb4BfxDHcag3hgw2MjQqlzrU0hiGnRFhlvNziPdjGQC56LycHqBqEN98RbjUoo5vtVn4fln0+/u4NkmoXEUBK3mxhyzbWcE5Pygk5FJu39ev+X9WYf1+X+Z5VRXpE95q2q23gfVvsh1/xLNLchEuw08l1HHIPJZxnLhWMuCeMJg5VcVB481LULnwvY2mt38niDUor2SS51feZorZnQf6Gk3IfGN5CnaCcLnk0SfL/AF/Xz+7VsFq/6/r0PPqKKKYBRRRQAUUV1fw01m80j4g6N9gMCtc39vC7yW0crKrSAHYzqShwSNykH3ppXdhSdlc5Siuz0h9bi+Jepy+GLOO41FJbkxzSDizG4gz7iQqbQSd7/Kuc9QCOlaaXWPiF4JtJnGuT20vlza3eBzHqTLKWYK7LulSP7isc5x0xgVEJKSg/5v6/r1KmuXm8jyeivQ/GuoLrfgGw1Bda1DX/ACtVnhN9q8Xl3MYMUbCNQJJMx8E8sME8KMnPnlCd7obSWwUUUVRIUUUUAFFdX8NNZvNI+IOjfYDArXN/bwu8ltHKyq0gB2M6kocEjcpB961PCq7filrV0Zfs62cWoXDXKLultwqP+8iHGZFJBUEjkdV6hX95Lyb+4O9/L8TgKK9cI/t3xh8PLxLptb+0swa91dNlxc+XcOSJVDSAhRgL8zZ6HjCjG8a6gut+AbDUF1rUNf8AK1WeE32rxeXcxgxRsI1AkkzHwTywwTwoycrmXLzedvxsNJOVr/1Z/wCR55RRRVCCiiigAoorq/hprN5pHxB0b7AYFa5v7eF3kto5WVWkAOxnUlDgkblIPvTSu7Ck7K5ylFd/4VXb8UtaujL9nWzi1C4a5Rd0tuFR/wB5EOMyKSCoJHI6r1G6R/bvjD4eXiXTa39pZg17q6bLi58u4ckSqGkBCjAX5mz0PGFERkpKD/m/4P8AkVK0ebyPI6K9D8a6gut+AbDUF1rUNf8AK1WeE32rxeXcxgxRsI1AkkzHwTywwTwoyc+eUJ3uhtJbBRRRVEhRRRQAUV1ngTxBd+GG1fUILLVZrd7MW091pd2bWS03Soyt5wRwuSm3kc5IpPiFayx63Y3815qV0dV06G+H9qzma5iDAqEeTA3/AHMq2BlSvFD0s/6vr+iBW/r5HKUUUUAFFFFABRRRQAUUV1fw01m80j4g6N9gMCtc39vC7yW0crKrSAHYzqShwSNykH3ppXdhSdlc5Siuw0vXbbw38UrzUr1JvLjubpBLbqrTW7NvVZYwxCl1JDDPHHbqNzx5eJBoHhHWRqF9qurSC4f7Rr1nEZprfcvlM8TGQMmTIFLs2cHGAABEZc0Yy7luNpOPY8zortfijfXGpa3o97euHuLjQ7KSRggUFjHk4UAAD2AAHauKoi7/AHv8HYXb5BRRRVCCiiigAorq/hprN5pHxB0b7AYFa5v7eF3kto5WVWkAOxnUlDgkblIPvTI7nVLHx/qd9oqSme0uZ5nmhtFuGtow53ShWBCleobjBwcjrSv7yXe/4W/zDo32t+Nzl6K9jlS017xJ8OrrVLifV7O7aaE6jqybLi8dJjhJVJYFVZlVfncEEjI5Uctrmr6j4i+Gf9p+Jrya91KPWzDbT3TkyCMwlpUXP8CsIjtHCluMbuXrZvt/nYOtv62b/Q4WiiigAooooAKnsb+80y+jvNNup7O6hOY57eQxuhxjIYcjg1BXUfDu7tYPHOlQXuj6fqiXd5DBtvkd1jDOFLBQwVjg9HDD2prVik7K5g6jqd/rF897q17c311IAHnupWkkbAwMsxJOAMVVruPDOnW0/wAS9UR7a1+z2aX0ym5jDW9tsV9kjx4O9FO07QDn+633S7xktpaf8I1qwtdJ1P7RbyNPPZW7W1neskzrjylWJlKrtDEBM8Y7kxGSai+//B/yLad35HC0V6B4wFpf+ALHVUXR7q7OpSRSXei2K2kUCNGrLBImyMs2QxDFCMAgO3IHn9PW7T/rqT0uFFFFMAooooAv6Tr2r6DNJNoWq32myyLtd7O4eFmHXBKkZFSXPiXXb3V4dVvNa1G41GAAQ3kt27TRgEkbXJ3DBJ6Hua6H4Z6Fa6vqmqXt9HZTR6RYNeLFfyMtuWDqoaUL8zIoYsVUZbaF74Nic31l4y0+4uNK0jxNLdWe7S00uwjitrhmLKrNAkKGQq4YFGQElRn5eC7PT+u/46BbRv8Arp/mcle67q+pammpajqt7d30e3ZdT3DvKu05XDk5GD054pdW8Qazr8kcmu6tfam8QKxteXLzFAeoBYnFb/xANpHNpto8VguuW0DLq76bFHHB5pclUCxAR70UhWKADPHJBNchURs1/X3/ADGwoooqhBRRRQAVpaR4j1vw/wCb/YOs6hpnnY837FdPD5mM4ztIzjJ6+tZtdL4Je6OpT22kaBDrOrXMXl2n2mJJorbnLytG6lDhf4nwqjJPqGBmy+Jten1qPV59b1GXU4hiO9e7kMyDkYDk7h1PfvTbvxFrd/q0OqX2sX9zqEG3yrua6d5Y9pyu1ycjB5GDxXReINU0ay8ew3Gl2ekXYghiiunaBvsMl0FxJMkaYBj3chQu04+4QcVqeJNEsdaufCKx3ui2zakksV1rdtCtnYuVlPOzamxkUgHKJnK9QQxlX0t3/wA9fw/EHZXbOF1XWdU127F1repXeo3CoEE13O0rhQSQu5iTjJPHvVKvTfiro2m2HhzwzcaLYadaW2Li3D215b3EtwEcBZJHiY72IBJPIUttzwK8ypRknsN3W4UUUVQgooooA0tI8R634f8AN/sHWdQ0zzseb9iunh8zGcZ2kZxk9fWi48R65d6xFq11rOoT6lDjy72S6dpkx0w5O4Y+ta3w7u7WDxzpUF7o+n6ol3eQwbb5HdYwzhSwUMFY4PRww9qpzXltovjS+mbSbHUIYbqUJa3QcQjDnHEbKeMdM49QaTfvJPz/AAt/mHR/1uQSeKfEEutR6xLrupPqca7UvmvJDMgwRgSZ3AYJHXuaNW8U+INfhjh13XdS1KKNtyJeXkkyo2MZAYnBrpPF+hWl78aL/Rreaw0W0mvRH5sm2C3tlKgk4GAoHPHFanxV0bTbDw54ZuNFsNOtLbFxbh7a8t7iW4COAskjxMd7EAknkKW254FTzLli31/4cfVo8yoooqxBRRRQAVf0nXtX0GaSbQtVvtNlkXa72dw8LMOuCVIyKoV1Hw7u7WDxzpUF7o+n6ol3eQwbb5HdYwzhSwUMFY4PRww9qa1YpOyuUf8AhNPFH9q/2n/wkmr/ANoGLyPtf2+XzfLznZv3Z255xnGag1DxNr2r3dvdarreo31xanME1zdySPCc5yrMSV5APHpVma8ttF8aX0zaTY6hDDdShLW6DiEYc44jZTxjpnHqDXSeIfD1nqfx6k0CGKKxs7rVIoCluqxLGjFc7R90dTgY61FOXtHFLr/X6lSXLe/Q5DV/EWt+IGiOvaxf6mYciI3t083l5xnbuJxnA6egrOr0Dx/ZzxWU/wBhHhtdLs70Wj2uk2w86ykCttSWd4lklJCvlg7qWU8j5RXn9NO4NNbhRRRTEFFFFAF/Sde1fQZpJtC1W+02WRdrvZ3Dwsw64JUjIqWfxR4gudYh1e51zUptSgXbFeyXcjTRjnhXJ3Acnoe5rR8EvdHUp7bSNAh1nVrmLy7T7TEk0Vtzl5WjdShwv8T4VRkn1G3dax4X034mQ3b21rcWcFmYLx7Kximt5LvyWRpooHKxsgkIYD5VO3IABFHVf13/AK9WCV7nH3+v6zqmpRajqerX15fQhRFdXFy8kse05XDEkjBJIx0NLq/iLW/EDRHXtYv9TMOREb26eby84zt3E4zgdPQV0XikQo2i+Io/sWr6bdiWNIH0mPTMtE3zpJHasAfvqQwfJBxxjFM+JItm1rS7mz0+z05bvR7S4e3soRHGrvHk4H9SST3JqW7W83/n/kPdu3Y4+iiiqEFFFFABV/Sde1fQZpJtC1W+02WRdrvZ3Dwsw64JUjIqhXV+D4oLbQ/EeutbW11d6XbRfZo7uBZolaWVYy5jYFWIBONwIyc4OBQJmRP4o8QXOsQ6vc65qU2pQLtivZLuRpoxzwrk7gOT0Pc1Hf6/rOqalFqOp6tfXl9CFEV1cXLySx7TlcMSSMEkjHQ1s+OrW3S50bUILaK1k1TSYby4igjEcYlLOhKooAUN5YbA4BY4wMCuWo2duw9GrrqaOr+Itb8QNEde1i/1Mw5ERvbp5vLzjO3cTjOB09BWdRRQAUUUUAFFFFAFzS9Y1PRLz7Xouo3enXO0p51pO0T7T1G5SDjgcVFe313qd7LealdTXd1Md0k88hkdz6ljya634Z6Fa6vqmqXt9HZTR6RYNeLFfyMtuWDqoaUL8zIoYsVUZbaF74Nic31l4y0+4uNK0jxNLdWe7S00uwjitrhmLKrNAkKGQq4YFGQElRn5eC2tv67/AJ2Do3/XT/M4Oiuv+IBtI5tNtHisF1y2gZdXfTYo44PNLkqgWICPeikKxQAZ45IJrkKlO43oFFFFMQUUUUAFX9J17V9Bmkm0LVb7TZZF2u9ncPCzDrglSMiqFdR8O7u1g8c6VBe6Pp+qJd3kMG2+R3WMM4UsFDBWOD0cMPamtWKTsrmbJ4s8RTazFq8uv6o+pwp5cd615IZkXn5Q+dwHzHjPc+tV5Nd1aXWhrEuqXr6mGDi+a4czbgMA+ZndkAAZz2rSbVj4d8W6vJZ2GnT5lmgjS9s0njhG/hljcFdwxgZBAyeK6+7todS+IHgzRb7SbGe5WKCTUorSyhs/NaU+aUdY1RcLGUB6HhuRmphLnUWutvlfUc1y8yfQ4bVvFfiLXrZLfXNe1PUoEfekV5eSTKrYI3AMSAcEjPvWTXfeNLe3uPBtjqUcujahONSmt3v9FsfscSp5aMsTx+VFubJYhgp4yNx4A4Gkne5UlYKKKKokKKKKAL+k69q+gzSTaFqt9pssi7XezuHhZh1wSpGRUs/ijxBc6xDq1zrmpTalAu2K9ku5GmjHPCuTuA5PQ9zWj4Je6OpT22kaBDrOrXMXl2n2mJJorbnLytG6lDhf4nwqjJPqN6XUPCkHxQt5Zk082kNp5VzcRWu+ya+ERUzCFRhofMwdqgA4yFxwS+q/rv8A16sXRnFajrmravqCX2rape314gCpcXNw8kigHIAZiSME5p2reINZ1+SJ9d1a+1N4QVja8uXmKA9QCxOK63x9ptmPCvh3WobvS7u7vWuYZptKsDZwyrGy7SIykeSN5BYRqDgDkjceCpFeYUUUUxBRRRQAVp6F4gv/AA3fi90r7KtwpBSS4sobjyyDkMvmo21gR1GDWZWtomqabp0V0NQ8PWuszy7BAbqeZEhwTu+WJ0LE5HVuMd6avfQTJn8Y6y2v/wBsrJaRXpjaJzDp9vHHKrAhg8SoEfO453Kc9+gom8Z67Lq1hqSXiWtzpwxafYraK2jh5JOI41VOSTnj5s4ORVr4g2en6b4ul0/TLG3sfskMUV1FbSSPH9oCAy7TIzNgMSuCT92uZqVsU13NnV/Fmr63YQ2N7Lbx2cMhmS1s7OG1i8wgAuUiRVZsDGSCccVjUUUxBRRRQAUUUUAXtI1m+0K/+2aZMIpSjRMHjWRJEYYZHRgVdSDyGBFa9t8QvElnrMmqW15bx3ElmbEqLC38lbc9Y1h2eWqnuAozk+pzS8MtY/2p5d9pUGpySKUt4ru/+yW6uf4pWypKj0Eic457HovE9voPhTxcA/h2C9jn0uGU2L3U/wBmhuHRWLRyKweWMc4Icg7uGIGaG7W/rv8A18wW7t/X9foc3rfifU/EMNpFqT2whs1ZbeK1sobZIwxy2FiRRyeelZNdX44t9NtY9ESx0m00y8m09bu8jtJZnQGUlo1xLI5BEewnn+L2rlKS0uvUbCiiimIKKKKACtrQfF2seGrW+ttJmt1t9QVFuobmyhuUlCElQVlRhwTn8vSsWur+H/g6XxZrMzPa3d1p2mxfab2KxiMs8qA4EcaDks5wuei5LHgU0K9ipJ468QSa1Hqpu4VuY7X7EEjs4UhMGCPKMIQRsmD90qR+VU9b8Sap4g+zLqc8ZitEKW8Fvbx28MIJ3NtjjVUBJOSQMnvXU+MtP0rwR8TdWtLjwqJrERA2dhdzzxpGWVSH3Bg7gHcMbhn14rN8cW+m2seiJY6TaaZeTaet3eR2kszoDKS0a4lkcgiPYTz/ABe1ZxacU0tH+ev/AASrb/12MrUvE+qavo1hpV69qbPTwRbJFZQxMmevzogZs9TknJ5PPNZNFFWIKKKKACiiigDT0LxBf+G78XulfZVuFIKSXFlDceWQchl81G2sCOowann8V6lc67/a88WmPd7SpzpNr5TZJJLReXsZuT8xUn34p3hiTS47qcaho82t3sqLFp9gpcRySswGXMbLIcDoq/eJHIxz0l1p3hLS/iZDa6lHawWC2Z+3Wsks8tva3vktmLfETKUWXaDgsRyMnGaOq/r+v+CgSvc5bxD4o1TxTeLd601rJcAkmWCxgt2cnHLmNF3ngfezjtSal4n1TV9GsNKvXtTZ6eCLZIrKGJkz1+dEDNnqck5PJ55rrD4Qtta8Y+HIII9Jt9I1ZmRbjRJLopJ5ZPmDF0TIrgYHIAwVIBrL1q30jVfBR8QaTo8Oivb6mLJre3mllSRHjZ0YmR2O9djAkYByOBjlfZ8v6QXXNa5yNFFFMAooooAK09C8QX/hu/F7pX2VbhSCklxZQ3HlkHIZfNRtrAjqMGsyuk8BRaJdeMNOsvEOmT6lDeXUVukcd55CqXcLl8KWYc5wrIeOtNb6Clorsqz+K9Sudd/teeLTHu9pU50m18pskklovL2M3J+YqT78Umu+LdX8R6jHqGqS2/2yNt4uLayhtpC3HzM0SKWIwME5x2rV0PQdPuvG2sR3cBl0/SIru8NoJCvnLDkrHv6gHgE9cZwQea1LTwrpXii/8I3FrarpEOtTz291a2ruyIYSpLRmRnYbkcDBLYIJ6HAiDUlFr19Exysm0zmNb8X614hthBqk8DRmY3DiCzhg82UjHmSGNFMjcn5myeT6msSuu1q30jVfBR8QaTo8Oivb6mLJre3mllSRHjZ0YmR2O9djAkYByOBjnkarrqHTQKKKKACiiigDa0HxdrHhq1vrbSZrdbfUFRbqG5soblJQhJUFZUYcE5/L0qaTx14gk1qPVTdwrcx2v2IJHZwpCYMEeUYQgjZMH7pUj8qj8MSaXHdTjUNHm1u9lRYtPsFLiOSVmAy5jZZDgdFX7xI5GOepn8MaD/wn1zClsv2bS9JbUNR0yG5ZkW4jj3SWyy5LbQ+ATliPmG7PNKXRv+rJ/p+duodP68v6+Ryl94t1fUr6yub2W2k+wLttrcWUC28QySQIAgj5Jyfl5PXNO17xhq/iW3gh1c2LrbhViaDTba3dVUYVN0cattAPC5x044rbuvC6eJo/C8/hjTYbG712ae0NjFK5hWSJl+dWkZmAKyDIJOCpI64Gh8UPBVl4W0Xw/Npej6lZrIJoLm6voZYmupEYAPsfhA2GZV4O3Gec0StG1+r/AKf9a6gnd6f1/X6HnFFFFMAooooAKv6RrV7oV1Jcac0IaWMxSJPbxzxyISDtZJFZWGQDyOoB7VQrpPAUWiXXjDTrLxDpk+pQ3l1FbpHHeeQql3C5fClmHOcKyHjrTWrsJuyuY+ratea3qL32pSrJOyqnyRrGqqqhVVUUBVUAAAAADFU66zQtN0RviRPYawIU0+Oa4WKK4uDDC7qG8qOSXOUQsFBbP4jqNfxF4c0bS4PDWt6rZWtnZ3s00V9Z6FqAvEPlFSNjtI4UsHAI8x9vXr8oiLTipLZltPma6o88ors/FthpUfhXTNRTRYvD+p3s7vDYQzTOJLPA2TMJWZlJbcAcgMBkLjk8ZTTuIKKKKYgooooAvaRrN9oV/wDbNMmEUpRomDxrIkiMMMjowKupB5DAite2+IXiSz1mTVLa8t47iSzNiVFhb+Stuesaw7PLVT3AUZyfU5TwFFol14w06y8Q6ZPqUN5dRW6Rx3nkKpdwuXwpZhznCsh461HAND0vxlfDWLGa7sbWWdYbKJyolcEiNHfcGVM4yRlsDA65BfVL1/r8QXVry/r8CrrfifU/EMNpFqT2whs1ZbeK1sobZIwxy2FiRRyeelZNeiXvhnSJfGPhPTbnS5NLvb9k/tbSbJpZDbhpPkADl3RmjwWUsxXOcD7tU/Gmh2ll4bsdRTStO027e9mtmTSNQ+22zoqIwLSedLskyx+XcMjnaMczolfza/EaV3b+v60OHoooqhBRRRQAVp6F4gv/AA3fi90r7KtwpBSS4sobjyyDkMvmo21gR1GDWZW54Yk0uO6nGoaPNrd7KixafYKXEckrMBlzGyyHA6Kv3iRyMctCZS1jWrzXdRN9qAtfPIwxtrOK3VuSclY1VSck5JGTUj+I9WfxMfEDXr/2r5/2j7SAAd+c5wBjHtjGOMYrsp/DGg/8J9cwpbL9m0vSW1DUdMhuWZFuI490lssuS20PgE5Yj5huzzUMPh/R9cvvBt9FprWNtrV5JaXdjYtLIAYpEy0ZdncBlkXOS2CpI64CgrtJf1ra/poEpJJ3f9Wv+Ry+r+J9T1u1htb02kdtC7SJDZ2MFqm9gAWKxIoY4AGTkgVkV3HjTQ7Sy8N2OoppWnabdvezWzJpGofbbZ0VEYFpPOl2SZY/LuGRztGOeHqU09i5KwUUUVRIUUUUAbWg+LtY8NWt9baTNbrb6gqLdQ3NlDcpKEJKgrKjDgnP5elLd+L9Wv8AWrfVbw2U1xbQi3hR9OtzCkYBAXyfL8vAycfLx+FaXw98LR+JdWvZLu1mu7XTLQ3cltFMsPnkMqqjSt8sa5bLOeiq31El9Dp+keK4X8UeF7a0tltPOhsdKupJYL1iD5becZpDsJ6tGx+6QADkhtbN/wBb/wDBBbP+u3/AOe1nXdR8QXiXOq3HmvHGsMSJGsccMajhEjQBUX2UAZJPUms+us8daXYaZ/ZIi05NI1aa2Mmo6XFJI6WpLHy/9YzOrMmGKMxIz2zgcnUpp7DYUUUUxBRRRQAVa0vUH0nWLPUYooppLSdJ1jmBKOVYEBgCCRxzzVWuo8DeG7bxJe6glzb3189pZtcQ6dpzqtxdsGUbULKw4DFjhWOFOAezV90J9mc7eXc1/fT3l05knuJGlkc/xMxyT+ZqGu217wdYeHPFemW+rWutWljqNol0tjsjkvUJJXySflAYspG4rkAjKZBWqnjfwzaeHl0qS3t7/Tp72B5LjStTkV7i0KuVG4hE4YAMMop+owanSKX3fn/kU7tu5ylFFFMQUUUUAFFFFAGno2sppJuFuNJ07VYLhArw30THaQchldGWRD/usAQcHNP8QeIbjxFfW89xbW1rDa26Wtta2qFY4YlzhRkljyWJLMSSx5q/4K8PW/iC61BZ7TUNRktLXzotO0whbi6beqkKSj4Chix+VjgdOpGhdeBIpPiJb+HrSa4so5bZLqdLyMvPYr5PnSRuoVd7qoPAAzwMKSQHrdL+uv8AwQSvdr+tv+Ac1r2tXXiLXbrVb8RrPcvuKRKQiAAAKoJOAAAByeBWfXR+MdJtNFvo7S20DXtGfDN/xO3AknTOFcRiJNnQ5GXHbPGTzlSrdBsKKKKYgooooAKltpUguopZbeO5RHDNDKWCSAH7pKkNg9OCD7ioq2/C3h7/AISDVGF1P9j0y0Tz9QvSuRbwg8n3Y8Kq9SxAprcBnijxHL4q8Qy6xdWNpaTTBRJHa+ZsYqMZ+d2OcADg44qvr2tXXiLXbrVb8RrPcvuKRKQiAAAKoJOAAAByeBXV33gjTIPibq2jxT3g0bSoHvJmLI1w0KRCQqDgLvOcA4wM5wcYON4j0fTrfR9I1rQxdRWWpCaP7PdzLLJDLEwDDeqIGUh0IO0HkjtkxG3Kmv6v/wAMFznaKKKoAooooAKKKKAOj8JeM7jwgL77JplhePexiJprnzkliUZyI5IpEZN2cNg8gY6ZpkniuNtajvo/DehxW62v2VtPW2cwOmCNxLOZA/OfMDhuBzVbQItAP2y48SzXRjhizBZ2bBJbmQnAHmMjKigZJJBPQAHPHS3HgbTYvGhsjPeRadb6WNVvbdijXVsoi8x7cnAUyDgZIGM5K8baUrXTf9b/AKX/AKYdP68v+AY9z43v3vtHn021s9Jh0VzJZWtkr+WjlgzMS7M7FiADuY8ADgVX1nxO2q6ZDptppdjpFjHO1w1vYmbbLKQF3sZZHJIAwACAMnA5Na7eG9BuL7wtfQz3VhomtXRt7lbu5jaS1McirIfN2KpXa6sGKjHII4yYPGPhy10i1trrS9MnhtJJniN1/blrqcTsACF3W6KI2wc4YkkHgcU3ote415f1v/wTk6KKKBBRRRQAVreG9eXw5q8WojSrLUZ4HSWAXhmCxOrBgwEciZOR0OR7Vk1seGbLT9Q1T7PqNrq1/I6kW1jpSL5tzJ2XcQ2wd8hHJxjA6hoTtbUst4vkTxQ2tWekafZmaOSO5s4mnMFysgYSB98rN8wYj5WGMAjB5pbjxpfNqek3em21rpUejtusrW0MhijYvvZj5jszFj1yxyAB0AFaOs+BMeObbQdCMqGe2iuJ4r6RS+m5TdKs7qAB5YyWO1SB1UHiqvj/AMP6P4d1qyh8O3dzeWF1p8V0k9yAGffnkAAbQcZAPIzyTUXUUvW33X/Dfy7FO7bT/rYpaz4nbVdMh0200ux0ixjna4a3sTNtllIC72MsjkkAYABAGTgcmsOiiqC9wooooEFFFFAHR+EvGdx4QF99k0ywvHvYxE01z5ySxKM5EckUiMm7OGweQMdM0n/CYSR+IIdTsNG0uwjjtTZvY20ciwTxFSjCTLl2LKxy27PQ5yM1B4W8Pf8ACQaowup/semWiefqF6VyLeEHk+7HhVXqWIFdBfeCNMg+JuraPFPeDRtKge8mYsjXDQpEJCoOAu85wDjAznBxgp2ur/0l/wAO/wAQvp/W/wDVvwOb13xDLrcdnAlla6dZWMbJb2doZPLTcxZm/eO7FiTySx4AHQCpdX8UNq3hzStHOlWFpFpYYRTW5m8x95y+7fIy8tzwBg9MDipvEej6db6PpGtaGLqKy1ITR/Z7uZZZIZYmAYb1RAykOhB2g8kdsnnaLdwCiiimAUUUUAFa3hvXl8OavFqI0qy1GeB0lgF4ZgsTqwYMBHImTkdDke1ZNdB4J0vQ9a8UWeneIrnUIIrqeOCNbGFGZ2dgoBZ2Gwcg52v9KavfQUrW1IbzxBbX3iP+1ZfDulhG3GWxV7nyZXOSXJ87zAcnOFcDgcdc308e3ieINL1H+ydJe10hStlpLwM1nFkckqW3Mxb5izMWJAycACqEGn6XD4wmsNSOoPZQ3LxBLKNXnmwxCoMkAFum7BxnO09K6PVfA+m23iTwzYub/RP7YYLd2GpuslzY/vSgLEIn3xgruVffjmpg01Fx67Dl9rm6bmL4l8YN4miYTaLptpcSXBuJryFriW4mbbtw0k0sjbcfwggVzldl4y8J2+haPZXy6VrOhTz3MsB0/WW3SyKioRMhEUfy/PtIx1HBPOONpRt0KkmtwoooqiQooooA1vDevL4c1eLURpVlqM8DpLALwzBYnVgwYCORMnI6HI9q19P8fvpfi6XxDY+HNGjuJYnQxEXDIjscmZCZi6SdgysMdgDzUXgbw3beJL3UEube+vntLNriHTtOdVuLtgyjahZWHAYscKxwpwD20Nb+HF7b+LdM0rT7S6sl1OzW98rU2XzLGP5hIZmUAAJsZiSqnGMqDkU9mv67/wCX4egLVO39f1cz5fHNwNd0zVtM0fS9MudOlaUNbJK5uGZssZXlkd3zyOW6E4qnq/ig6no8OlWek2GkWMU7XJgsmmYSSlQu5jLI54AwACByau+P/D+j+HdasofDt3c3lhdafFdJPcgBn355AAG0HGQDyM8k1y1Zx5WrLa/5P/MOtwoooqwCiiigAro/CXjO48IC++yaZYXj3sYiaa585JYlGciOSKRGTdnDYPIGOma5ytvwt4e/4SDVGF1P9j0y0Tz9QvSuRbwg8n3Y8Kq9SxAprXQCf/hMJI/EEOp2GjaXYRx2ps3sbaORYJ4ipRhJly7FlY5bdnoc5GaefHN/FrGkX2mWdnpsejkm0srcSNCpLFnJ8x2Zi2cEls4AAxgVo6j4FtW+LFz4W0q6mhsYmL/aLlfNkjiWHzXYqgG5gobAAGTge9ZnjHSbTRb6O0ttA17Rnwzf8TtwJJ0zhXEYiTZ0ORlx2zxkyvhUu+o7XuiDV/FB1PR4dKs9JsNIsYp2uTBZNMwklKhdzGWRzwBgAEDk1h0UUWEFFFFMAooooA1fD/iG68O3s81tFDcRXVu9rdW1wG8u4icfMjbSrDoDlSCCAQa29P8AiNd6Z4hg1S10TSAtpZmzs7QpN5dopYsXjbzfMEm5mO/eWBY4I4xjaBFoB+2XHiWa6McMWYLOzYJLcyE4A8xkZUUDJJIJ6AA546W48DabF40NkZ7yLTrfSxqt7bsUa6tlEXmPbk4CmQcDJAxnJXjbQ5W3/rf/AIP9MP6/L/gHOeIPEK68bcpo2naYYS5ZrMSl52dtxaR5ZHdznpk8ZrGrqdX0TQ4rTRNYtJdQstI1QzRyxybLq4t3iYBsECJXBDoR93qR2yYvHGiaXoer2cegyXklld6fb3iNe7fM/eLu5CjA+nOPU9anSFkPdnN0UUVQgooooAKvaVLpUN0za5ZXl5BswqWd4luwbI5LNHICMZ4wPrVGt3wx4eg1z+0p7+9ks7LTLQ3Vw8Fv9olI3qgCx7lzywySwAHJNMC1feLbLV9eim1XQ0l0i2tPsVpp0N08bWsQztKy85kBJYsysCScrjAEPiTxJa6vpmkaXpeny2VhpUcqxfabr7TM5kfc25wqDaD0UKAPmPJJqzc+Bbk+JdN03TLnzbfVbVb21u7yE2oEGGLPIpztChHJwWBC5UsCM5WuWmh2cqx6Dq15qe1mWSSewFshx0ZP3jMwPP3lQ9OOwX9f1+I7GVRRRQIKKKKACiiigDe8N+IbbSLPVbDUrKa8sNUgSKZba5FvKuyRXUq5RxjK4IKnPtWtb/EafTfHOma9pFm0EGm2kdjFbS3G95IFTYVeRVXLEE/MFGOOOKyPCHh+z8S+ILfTb/W4NIWeVIkeSCSVpGY7QqKgxnJH3mUe9Lpnhc6j4qu9Ka7EFtY+dJdXhjLeVDFku+wHJOBwueSQMjrSdrpPz/4P5i0s/wCt/wDhhfEHiGz1LStO0vSbG6tLKxeaUfbLwXUrSSldx3BEAX5FwoXrkknPGBXR6n4YsrYaTd2Osg6RqgkEd7fWzQmF42w6yRxmUjGVOV3ZDDvkCLxh4ct/DOrW9rZamNTt7mzhu47kQGEMsi5GFJJx9cH1A6UNpb+hW7MGiiimIKKKKACtXw/4h1Hw9fibTtR1KxjkKi4Gm3rW0kqA5K7wDj2JBA9DWVW74Y8PQa5/aU9/eyWdlplobq4eC3+0Skb1QBY9y55YZJYADkmmrrUTN3WfiR/a/wAQLnxFJZXhtr2zayurOfUBK7RNGUZUlMY2ddw+U4bnnOKwfEGv22p2Om6bpNlNY6bpyyeVFcXAnkaSRsu7OEQHOFAAUABR3yS3xN4f/sC7tPJnlubK/tEvLSea3MDvG2R8yEnBBUjgsDgEEgg1i1KSSsuhQUUUUxBRRRQAUUUUAdR4J8UaX4WuLq6v9Ek1C9YL9juorpInsmByXQPFIhY8YJXK4yMHkPHi7T7bxQ+o6dpN1FZ3NnJaX8FxqPnzXYkVlkkMxTh23bshMAjoeRWVotnoVzDdSa/rF1p/lbPJjtLAXLzkk56yIqgYHVuc8V0SfD62uPiDa+GrTU72YTWP2tm/s4faEPkGYReSJSC+Aoxv6t7Ubtf10YLt/XQzb3xRps8ujWkGhs2iaUXP2C7vDI87SNmRmljWMgkBQMAAbBwecs1bxHpsvhlNB0DSbixtDd/bJ5Ly9FzLJIEKKAVjjVVAZuNpJJ68AVX8VaCnh3VEs1j1iJmiEjJq+mfYZRkkcJ5j5Xjrkd+OKxKW6C1mFFFFMAooooAK09GvdItTcJrukSajFMgCPb3Zt5oGBzlWKupBGQQyN7EHmsytrw7odrqy6hc6lfSWVlp1uJ5ngtxPKwLqgCRl0B5cZJYAD3wC0Be1fxzfXOvWeoaA95on2GxjsLdoL1zcGJBj55htLE57AAAKAMCpPHvjf/hNbjTJfL1JPsFottnUNS+1tJj+PPlphj/Eec8dKP8AhCof+Erj00armwk0/wDtMXfkDzfI8nzseTv/ANZtGNm7Ged235qzvEOhWulQabe6XfyX1hqULSwvPAIJl2yMjB4w7gcrwQxBHuCBMrO1+9/nr/wR8rW39bf8AxKKKKYgooooAKKKKANXw/4h1Hw9fibTtR1KxjkKi4Gm3rW0kqA5K7wDj2JBA9DXS6z8SP7X+IFz4iksrw217ZtZXVnPqAldomjKMqSmMbOu4fKcNzznFYXhDw/Z+JfEFvpt/rcGkLPKkSPJBJK0jMdoVFQYzkj7zKPem2GgWs/ii603UdWh0+zs2l8+8lUE7Y8/cj3Au7EABAep64BITtdX8/8Agguvy/4H5C+INfttTsdN03SbKax03Tlk8qK4uBPI0kjZd2cIgOcKAAoACjvknDrsG8D28+seGIdN1WSXT/EkoiguJ7Typov33lMWiDsODyMOQR6HIqp4x8KJ4Wkt4/L16N5i/wDyF9H+whguOU/evv689McetPpfzf4bjtc5qiiigQUUUUAFbXhTV9N0HX7bVNU0+6vzZzRzwR294tv86MGG4mN8rx0GD71i1raLZ6Fcw3Umv6xdaf5WzyY7SwFy85JOesiKoGB1bnPFF7CeqLlzrXh648UT6g3h+6lsLpZDNaz6lmVZHJPmRypGoUgkYDI44OQc8aa/EGGx1TwzLoukvDZ+HXd4Y7u88+aXe+5wZAiBR/dCoNpJPJJqnq/hTS9L8Vw6VL4hFrbPaxXEt1f2TxtD5iB/LMcRlO8Kw74zwSKzvFmgjwx4s1DRlujdrZy+WJzH5e8YBztycdfU1KajaK/q2g3712/6uW9Z8R6dc+G4NE0PTbuztUvHvZWvb1bmR5GRU4KxRhRgcjBycc8VzlFFNJILhRRRTAKKKKAL2lS6VDdM2uWV5eQbMKlneJbsGyOSzRyAjGeMD61r6l441S412C/0WafQo7K3FnZRWFy6Nb24JOzzAdzE5JZj1JPAGAKOgaTp2o/bJ9a1ddMs7SLeSkSzTTMThUjiLruPUk5AAHJ6Z0NS8I2mmeJLSxu9ft7XT7y0ivYb65tpQRFIoYBoow5D47ZK/wC1g5p3tb+u/wDwfkHf+u3/AACXx743/wCE1uNMl8vUk+wWi22dQ1L7W0mP48+WmGP8R5zx0rk66m78Fi2+KSeD11Aur38dmLwwYOHKjds3dt3Td+NR+MfCieFpLePy9ejeYv8A8hfR/sIYLjlP3r7+vPTHHrURSUVJbP8A4f8AUdnt2/r9DmqKKKoQUUUUAFavh/xDqPh6/E2najqVjHIVFwNNvWtpJUByV3gHHsSCB6Gsqt3wh4fs/EviC302/wBbg0hZ5UiR5IJJWkZjtCoqDGckfeZR701e+gna2p0N78VLuT4qR+NLC3uo3VBG9rdXxnLJt2MgcKu0EEkccNzzWB4g8Q2epaVp2l6TY3VpZWLzSj7ZeC6laSUruO4IgC/IuFC9ckk54TTPDSX/AIrutJmvfIgsxcPNcCLe3lwqzMVjyNzELwuR7kDJq1deGtGtb7R5pNfmTRNUhklF5JYjz4djOhDQLI3VkwCHwc9RggRGyimtnt+f+Zdmmzl6K6XXPDukWPhex1nSNVvrpLy5kgSG905LZiI1Us6lZpMjLgduc+lc1VEhRRRQAUUUUAdR4J8UaX4WuLq6v9Ek1C9YL9juorpInsmByXQPFIhY8YJXK4yMHkPHi7T7bxQ+o6dpN1FZ3NnJaX8FxqPnzXYkVlkkMxTh23bshMAjoeRVHwh4fs/EviC302/1uDSFnlSJHkgklaRmO0KioMZyR95lHvTbDQLWfxRdabqOrQ6fZ2bS+feSqCdsefuR7gXdiAAgPU9cAkJtXV/P7uv5guv9f1sT6p4h0zUF0nT4dMu4NE03eRbG9R55GkbMjGbygAThQPkwAo4Jyal8XeJNG8RRWB07SL6wuLO2hsw8+opcI0UabR8ohQ7jwSc468ekl54NtUutBksdaj/szWw7R3eoxC1aAI5RzIu9gAMEjax3dBzxUOu+GdPs/D0OuaDq02o6fJePZMbqy+zSeYqhsqodwUKsOcgg9QOKTtbXo/x2/Wy6dhrfT+upzVFFFUIKKKKACtjwxqEWmasbqTXNW0R0jIjutJhEk2Tgbf8AWx4BGed34Vj1s+F/DF34r1iPT7K70+0d2VfMvrtIVyxwAATuck8YQMeelNbidranXD4phfiTpmuPBc3mn6dbGwH251muZ4WDh5HZsgyHzGbHQcLkjJOL418UW/iCz0yBNR1PWbm0Mpl1PVoVjndXKlYgBJIdi4JGWPLnAA641roFzd+IJNIW5sYJopGjea6u0t4V2nBO+QqPw6nsKXW/Dl7ofim40CXy7q9gmEA+y7mWRjjAXIBOcjtmpTUrW6/1+pWqvcyqK3Nf8Mf8I6DDd6zpk+oxuEuNPtXlkkt2xkhn2eUSOhCu2Dx2OMOmIKKKKACiiigDe8G3mkaZ4ostT125voYrG4iuUWztEnaUo4bad0ibQcdefpWnB4g0TTvGmoXdlPqFxpWrW1zb3Ty2aRzxCcMDsQSsrbSVPLDOCOOtY/hfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpSaZ4ZvNU8Sy6LFNbxSQGUz3EzkQwpECXkYgEhQFJ6Z9s8UtLq/Z/d1F3+X/AADQ1jVtEu7PQ9Csri//ALJ04zPLeS2aCd3lYFiIhKVwFRABv5OTkZwJfG+q+HdYj0yXQ7zU5Z7Oyt7F47ywjhVliTbvDLM5ySB8uO/X1qt4MuX1jR7LT9T07UItZmEFre27yeV5m8KVcOiupBZSQU6MCMgiqGtaPa6SyLba9p2rOWZXWyS4XysevmxJnPtnpQ1dJvv/AF+ZST1t/X9WMuiiimIKKKKACtjwxqEWmasbqTXNW0R0jIjutJhEk2Tgbf8AWx4BGed34Vj1o6Lo41i4lWTUtP02GGMySXF9NsVR6BVDO5J4wise+MZNNAavjrxYfFusW8qG6e2sbZbS3lvZfNuJlDMxklbu7FiSBwMgZOMnma6K58F31t4ig0lr3TMXMCXUF7JeJBbyQuMhw8u0jj+EgNwRjNZ/iLQ7jw14hvNHvZYZZ7OTy3kgJKMcZyCQDjnuBUprb1/4P4j3M2iiimIKKKKACiiigC3pT2MesWb6ukslgs6NcpCAXaMMNwXJHJGe4rUn1fTvEHjDUdU8T/bY4L+SWTdZbGeBmyU+VsB1Xgbdy5HRhiofC/hi78V6xHp9ld6faO7KvmX12kK5Y4AAJ3OSeMIGPPSq9voOoXviP+wrCH7VfmdrdUjPDMCQTk4wOCcnAA5OKOqXr+gdGanibWtLutC0XRNEa9nttLE7G6vo1ieRpWDFRGrOEUbRj5jksx4ziuarV1zRrfRpVig13TdVk3MsgsDMwiI9WeNVYHnBQsDjrjGbnijwTqvhCz0ubWfJR9ShMyQIxMkOMfLICBtb5hxk474PFLb+vmBz1FFFMAooooAK6nwR4ltvD39qLPdX+mz3tusUGqabGHuLUiRWO0F04ZQVJDg/XkVy1aWg6De+I9UFjpwjDBGllmmkEcUEajLSO54VQOp/AZJApoTOwPjzTf8AhP11gtqDqul/Yf7VaFftvn+TsF3sMhHmA/8ATTOBndmsfxt4ltvEKaVHDe6jqs1lA8c2p6pGEuLgtIzBWAkk+VQcAlj1PAqta+EjqWvJpuk63pt9GIGuJ75PPjt7aNQSzSGSJWAAA6Kc5AGScVW17w5NocVlci8tNQsb+Nntry0L7JNrbWGHVXUgjGGUeoyOahpK1/63/wCD/SK7mPRRRVCCiiigAooooA3vBt5pGmeKLLU9dub6GKxuIrlFs7RJ2lKOG2ndIm0HHXn6VqW934GbxxdX+rvrN/pMqyTpH9ijjfz2YkK6Cf5owDyVdWPT5etY3hfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpUNroUtz4gk0l7yytXikdJbi6uBFCgU4Ztx5PToAWPYE8UacyfXX/AIP6Auvy/wCAb3iTWvDWteItPvJrjWb23x5d6otoLIQxDiOO2jVpFRVXsTzjtkmoNW1nRIPBUfh3QZtRvQ+ofbpbm+t0t9hEZQIkaySdc5LFhnCjHGaqal4PurGfTBb6hp19baqjNaXsVx5ML7WKsGacRlCCOdwA5GM5qHxP4ZufCmqR2N5dWd20tvHcJLZSmSNkcZGGwM/UZHoTUKyjy+f5a/oHUxqKKKsAooooAKt6U9jHrFm+rpLJYLOjXKQgF2jDDcFyRyRnuKqVs+F/DF34r1iPT7K70+0d2VfMvrtIVyxwAATuck8YQMeelON07oTtbUde6naeJPF99qniC5urSG9nkmZ7W3W4dMnKqFZ0GBwPvcAVd+IOraJ4g8VXOsaDPfuL2QvLFe2iQ+VwAApWV93Q9QuOOtZdroFzd+IJNIW5sYJopGjea6u0t4V2nBO+QqPw6nsKl1XwxeaR4un8Ozz2bXUM3kmbzxHCTjOd8m0Ac9WxWcVF8vL20Kk3d3Mait/XPCcmj6XFqdtqunavYvcvatcWDSFY5VAYqRIiHkHIIBU+tYFUmmIKKKKYBRRRQB1Hgm+8KadcXV14rgu7i4jCmwSO1S5gD5+ZpY2ljLgcYXdgn7wI4LdcvPD+teLDeT6vrktvcRh7u9uLGF53n77YhKqqnQAb+BxWboWgza7Ncbbm2sbW0hM1zeXbMIoVyAM7VZiSxACqCST064bruh3GgagltcSQzpLCk9vcwFjHPE4yrqWAOOowQCCCCAQRQ90/6/r/AC8gXW39f1+vmdB4u1jwrr3j5tZik1iewvZi95A1vFbSxLgAeW2+QMep5C9Md8ivq2s6JB4Kj8O6DNqN6H1D7dLc31ulvsIjKBEjWSTrnJYsM4UY4zXK0UrJR5egdbhRRRTAKKKKACt7wbeaRpniiy1PXbm+hisbiK5RbO0SdpSjhtp3SJtBx15+lYNbPhfwxd+K9Yj0+yu9PtHdlXzL67SFcscAAE7nJPGEDHnpTV76Cla2pu6f4k0LRvH91q9hc6lJbXUNwEu2so47mymlDASRoJWDFMgg71PXpgGqfjbxLbeIU0qOG91HVZrKB45tT1SMJcXBaRmCsBJJ8qg4BLHqeBWRa6FLc+IJNJe8srV4pHSW4urgRQoFOGbceT06AFj2BPFXNS8H3VjPpgt9Q06+ttVRmtL2K48mF9rFWDNOIyhBHO4AcjGc1mlHljbbp+P/AASne7b+ZH4j1q31O30ez06OWKz0ywSBVlwC0pJeZ8Anq7tj2C9OlYlbPifwzc+FNUjsby6s7tpbeO4SWylMkbI4yMNgZ+oyPQmsaqTTu15h2CiiimIKKKKAN7wbeaRpniiy1PXbm+hisbiK5RbO0SdpSjhtp3SJtBx15+lalvd+Bm8cXV/q76zf6TKsk6R/Yo4389mJCugn+aMA8lXVj0+XrWN4X8MXfivWI9PsrvT7R3ZV8y+u0hXLHAABO5yTxhAx56UmmeGbzVPEsuixTW8UkBlM9xM5EMKRAl5GIBIUBSemfbPFGnMn11/4P6B0fy/4B0Oraz4P1rxdpl7q11rt5YKGS+SKygtfLjUfuoreJZGVEAwDlvUjk1X8a654f1mxtF0W41Hfat5VvaNYx2lpa2+M4RRNKzOW5Z2bLZ5zWXfeFZrW509bTU9M1C21EssF7DcGKHcpwyuZghjIyCd4HDAjIIp2ueE5NH0uLU7bVdO1exe5e1a4sGkKxyqAxUiREPIOQQCp9aiyUUvP9f6Xz8x9f6/r+vIwKKKKsQUUUUAFdD4G+wQ+MNNv9V1e10y3sLuG5driOZ/MCSBiqiKN/mwO+B71z1FNOzuJq6sdFq+n6beeMLpYPEumG0upJJxfGK6ESbmJCMPJ37unRSOetdF4i1/R7H4xW/i3TdStdbsv7QS7MNvHPG6KhXhvMRBk4OMEjjn387oqYRUHFroVJ8179TvvHeqeH77S5V0640e7uG1AyWJ0zTXtWt7Xa2UnZo08xifLwcuQVb5+eeBoootYG29wooopiCiiigDofA32CHxhpt/qur2umW9hdw3LtcRzP5gSQMVURRv82B3wPerrXCab8Rmv9D8VabGJZZZ01HyLhoYg+7KOjQFmyDgjYynd1xnHI0UdU+1/xDo13PRvEPi2x1N/DGjLrgii0mWSaXWdL00W8cUkhVswwIIiFQqMthWJLHHTNTxbr8d74MttO1LxS3ivVlvzPHeEXDi1g8vaY/MnVXO5tp2gbRsznJrhKKVrqwBRRRTAKKKKACtrwzFYtfPNd6xaaXcQAPbNf2BuraVs4KyAK5HByP3bAkc461i0UCep2vjC70nxP4ttPI121iSPT4YbnUJYJ0tWmRcERRqjOkeNoChFGQcKowKg+Jlxpeo+Nb3VtF1m11O3vpS4EEU6NEAFGHEkacnn7uenOK5GilZXv6/iVcKKKKYgooooAKKKKAOh8DfYIfGGm3+q6va6Zb2F3Dcu1xHM/mBJAxVRFG/zYHfA963dG1nQ/DfxZ/tO6vbTWdJumuBNLbxThY0nDocq6IxIDZIAIIJwc9OBoo6p+v47h0Z3useJdO03UtA1OwXQNY1awmkmney0xrazkXKmJHj2RbmU7yWCjgqMtjiXx/4j0jXvB3h4WcmlnUopLiW9is/tpeNpX3nLTkhsk/MdzHd0OK89opNJpLsO+twooopiCiiigArsPh14g07Q77VYdWS1WPUdPe2iuLuBpoYJQyyRtJGA25NyDI2t24IyDx9FNOwHoFxH4M1zxdajV9bsrG2h04G9u9NsJIIL25DHCxosWYgVKgv5QGVYhDnnM8e3ljeTaf8A2XrFld20MTRRWGnwTpBp8Yb5VDTKrSM2SzMRksTntXJUVLV7eX9f1/w93cKKKKYgooooAKKKKAOh8DfYIfGGm3+q6va6Zb2F3Dcu1xHM/mBJAxVRFG/zYHfA96sXtno03je5Y+JrP7LO8lzDfR2U0sKSFiyRyo6K+OmSqOORw3OOWopW1T7B0a7nc+MtS0zXE8O2K63Yy3NtFLHd3traS29jErSFkCQiMEEAksUiUHI4Y5Jh8fvpF2ukXGkeILHU2tdOtrGWGCG5Rw0ceGf95EilcjjnPI4rjKKGk/vv+f8AmO+oUUUUxBRRRQAV0Pgb7BD4w02/1XV7XTLewu4bl2uI5n8wJIGKqIo3+bA74HvXPUU07O4mrqx0Wr6fpt54wulg8S6YbS6kknF8YroRJuYkIw8nfu6dFI561reOT4f1r4kTahD4lgm0zUpy0k9paTs9quAAXSRY88/3SeAe+AeHoqIwUbW6FNttvud14r1jT5vAthpI1iw1S/gvmlQ6RZPa28cJjCnzFaOIPIWAwwQnAOWPAHC0UVXW4ulgooooAKKKKAOm8KahZLo+vaJqN7DpyarbxCO8nWRo43jlVwGEas2CAwyAcHHameM9Tsr260uz0y4W7g0rTYrL7UisqzsCzsyhgGC7pCoyASFzgZxXOUUeQkknf+un+QUUUUDCiiigAooooAK6HwN9gh8Yabf6rq9rplvYXcNy7XEcz+YEkDFVEUb/ADYHfA9656imnZ3E1dWOpvbPRpvG9yx8TWf2Wd5LmG+jsppYUkLFkjlR0V8dMlUccjhucaHjLUtM1xPDtiut2MtzbRSx3d7a2ktvYxK0hZAkIjBBAJLFIlByOGOSeGoqYxSio9EU222+52fj99Iu10i40jxBY6m1rp1tYywwQ3KOGjjwz/vIkUrkcc55HFcZRRQlYQUUUUwCiiigDofA32CHxhpt/qur2umW9hdw3LtcRzP5gSQMVURRv82B3wPerrXCab8Rmv8AQ/FWmxiWWWdNR8i4aGIPuyjo0BZsg4I2Mp3dcZxyNFHVPtf8Q6Ndz0HxV4k0vX4fDvh251aJrPT2la61Sw0tYYVabaSIrdRH8i7RklVZiWO3pmDxXrGnzeBbDSRrFhql/BfNKh0iye1t44TGFPmK0cQeQsBhghOAcseAOFoo6WHfUKKKKBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUV0fh7wB4m8Vae99oGm/a7aOUws/nxJhwASMMwPRh+dZ1KtOlHmqSSXduxMpKKvJ2OcoruP+FNePf8AoA/+TkH/AMXR/wAKa8e/9AH/AMnIP/i65v7Qwf8Az9j/AOBL/Mj21L+ZfecPRXVaz8M/F3h7SJtT1fSfs9nBt8yX7TE+3cwUcK5PUgdK5WuilWpVo81KSkvJ3LjKMleLuFFFFalBRRRQAUVvaH4K8QeJLF7zRdP+0wJIYmfzo0wwAJGGYHowrR/4VT4z/wCgN/5NQ/8AxdOzOeWKw8Hyymk/VHIUV1//AAqnxn/0Bv8Ayah/+Lqpqvw/8TaJpkuoappnkWsOPMk+0RNjLBRwrE9SKLMUcXh5NJVE2/NHN0UUUjpCiiigAoora0bwhrniCze60ix+0QpIY2bzkXDAA4wzA9CKaTexcKc6j5YJt+Ri0V1X/Cs/F3/QJ/8AJmL/AOKo/wCFZ+Lv+gT/AOTMX/xVPkl2N/qeJ/59y+5nK0Vv6n4G8RaPp0t/qWneTbRY3v58bYyQBwGJ6kVgUmmtzGpSqUnapFp+egUUUUjMKKKKACiun8NfDnxV4v02S/8ADulfbLaOYwvJ9oijw4AYjDsD0Yc+9bH/AAo74if9C9/5O2//AMcrmli8PCXLKok/VFKEnqkcBRXf/wDCjviJ/wBC9/5O2/8A8crP1z4VeM/Deiz6trWjfZrK32+bL9qhfbuYKOFck8sBwKUcZhpNRjUi2/ND5JLochRRRXUQFFFFABRRXQ+H/AXiTxTp73uhab9qt45TCz+fGmHABIwzA9GH51nUq06UeapJJeehMpxgrydkc9RXbf8ACnvHX/QD/wDJuD/4uj/hT3jr/oB/+TcH/wAXXP8AX8J/z9j/AOBL/My+s0P5196OJorqNY+G3izQNJm1PVtK+z2cG3zJPtMTbcsFHCsT1I7Vy9b061OsuanJSXk7mkJwmrwdwooorUsKKKKACirlnpN7fwmW0h8xA20neo5/E+9WP+Eb1X/n1/8AIif410xwmJnFSjTk0/Jmqo1ZK6i/uMuitT/hG9V/59f/ACIn+NRXOiahaW7T3FvsjXG5t6nGTjsacsHiYpylTkkvJjdCqldxf3FCiiiuUxCiiigAoorX0nwrrOuWjXOl2fnwq5jZvNRcMADjDEdiKTaW4GRRXS/8K88Uf9Av/wAmIv8A4qj/AIV54o/6Bf8A5MRf/FVPPDuBzVFbmo+Dde0mwkvdQsPKt4sb386NsZIA4DE9SKw6pNPYAooopgFFFFABRXR+HvAPiXxVp732g6b9qt45TCz+fGmHABIwzA9GH51qf8Kb8ef9AL/ycg/+LrRUqjV1F/cPlfY4iiu3/wCFN+PP+gF/5OQf/F1S1n4aeLfD+kzanq+k/Z7ODb5kv2mJ9u5go4ViepA6UOlUSu4v7h8r7HK0UUVmSFFFFABRRWtpXhfWNbtWudMs/PiVzGW81FwwAOMEjsRQJtLcyaK6P/hX/ib/AKBn/kxF/wDFUf8ACv8AxN/0DP8AyYi/+Kp2ZPPHuc5RW1qHg/XdLsZLy/sfKt48b385GxkgDgMT1IrFpFJp7BRRRQMKKKKACitvRvB2u+IbN7vSLH7RAkhjZvORMMADjDMD0IrQ/wCFY+L/APoEf+TMP/xdc0sXhoS5ZVIp+qLVObV0mcpRXV/8Kx8X/wDQI/8AJmH/AOLqpqfgXxHo2my3+pad5NtDjfJ58bYyQBwGJ6kUo4zDSajGpFt+aG6c0rtM5+iiiuozCiiigAr334LwyS/CfVjFdz2xj1CZyYGClsQR8ZIJH1Ug+9eBV7t8F7zQh8PL2y1zVILQtqcj+W1+bdmUxRjsykr1Hpx7V4mdp/VNFfVbK/4HLiv4fzPZJYXubFY0uZbdmA/exbSw/wC+gRz9KoQSyR+D1lFxIsi2mRMxLsDt4OTkk/UH8apJq/hRNPayXxHa+Uxzk6wTIPpJ5m4DjoDSWmqeELKzktYdesWgkXayTar5oxjGBvc4H0r8/VGSjbllvf4en9dNTxlFpbP7jkfiVvi+GHiGIw39snl2zCC+uBOxP2hQWVt74HQY3dug6n5wr6N+J1/4dHwt1qDStZt7u4m8jCHUjcyNidDgbnY4xk8V85V93kN/q820173XTpH1/M9fB35H6/ogooor6A7AooooA9r+Dy+d4NktmeRI5dTk3GNyjHEMZxuHI/AjpXfG7lsdNuNizXLQzeVGdjStg4wTjlgu7k8khe5riPgvZpe+A7tJVkIGpOQ0bsjKfLj6MpBH4HvXpUFoLaBYYY2CL0ySSc8kknkknnJ5NbRTsfDY+MniZ+63r2/r0MzRXa50qWMXN2zrK6efNGUkznqA6479MYHTHGK4/wCIQaDwHr1vi6jiCW5RLqYysx89QXViW4+7xuyO6rnLd5BpEEFrJbrFK8UpLOJZXkJJ92JNcj8TNMhsvhnrDxJKXYQBpJpXkbHnJxuYk49qbTsThU/rMXyuzkunmj54ooorA+7CiiigAr2D4Vqh8D3RnuGghXUHLlGKlv3ceACORzjpyeleP17B8J7K3vPCExuN+6LUHZCkrIVPlxjOVI7VrRi5StFHqZXJRxGttnu7I7gedHpqqzSL5kqopZsuqMwAyTznB+v406OJ0+12cEkhAjBjaSRmKltw+8cntn8amjtLeK2aBSxRiSxaVmYn13E5z+NEdpbR27wY3xv9/wA2QuW+pYkmu72VS2zPrVUppp88dPP1/wCB9xxnjuOS28A6rDcRskjpEwP2uScECZAfv4weR0rxKvdviHZ29r8PdVaHezsIQWklaRsecnGWJOPavCa468XGSUkfK5tb20VFp6dPV9rBRRRWB5AUUUUAfRnwBHnfDqSzaSWOO51uVZGhkMbEC2jbAZcEdOxBr1izgmms7ywS+uohb3HlR3AZXl2bVbBZw2fvFckE4HXPNeXfs9W1te/DDUILpmUf2vIwMczROp8mLkMpDD04PqK9Z+wWI0z7AkkiQ+sd06yE5yT5gbfknqc5PevgcxUniZ2T37XXr+ljvpyXKtSPSUkm8NWyfaZkkaAKJ9weQHGN2XByfrn3rgfiojx/AzxDHJPNcMlyi+ZM+5m/0tP84GAOgAHFd9ZaVp+n2ctrazXAilXaQ99K5UYx8rM5Kdf4SK4H4vaRYaZ8H9fayluWaTyNyzX0swJNzGScO5GffrWeFi/rMdH8UXt59RzkuS11958q0UUV+hHnhRRRQAV7z8Eh53gWS1aSSOOfVpQ5ikKMQIIzgMOR07EHivBq9++BsNtdfDy9hunKj+1HYFJmjYHyouQykEdxwfUV4eeO2Dv5o8/MNKHzO+leSLSbq2EtzIIblYUKyfvZEJU7A574YruJB4yWBy1SaYsz2V5bq91aEPiNbqQTSwAqOdxZgeckZLY+nyi19lsP7P8Ase4eT1/1x3Zzndvzu3Z53ZznnNRNpmlyaZPYSs0tvcf60S3Tuz/Vy27t618J7SHLZ337fjvb5fifO8ytbz7f1/XU4b4kIg+FuvSWU9xNYMtuI2nnaXe/npllZiTtIwOuDjIHc/OdfSfxTsLKz+F2tvbSyySOsCkzXckxwJ0OBvY4/Cvmyvt8hkpYebX83XfaJ7+Wu9KTXf8ARBRRRX0B6YUUUUAdf4T50t15AM7Zwf8AZWtwbihA5w2OvNZ/gjSb+/0OaSzsbq4jFyyl4YmYA7V4yB15rpP+Ed1jbj+yb/H/AF7v/hX3uX1KawsU5Jad9f6/qx9Dh5wVKN5LbuZaEnevK4/vHJFZniD/AJAF1gkr8nU9fnFdN/wjer7Sv9kX+D1/0d/8Kx/FOiajZ+Gbue4068hjXYGklhcKPnUDkj1q8VUh9XkueL92XXXZ6W2t91/kFWcfZNcy2fU85ooor8/PngooooAK9V+GyM/gi92TSRbbuQkxkAn92nGcZH4YNeVV6r8MltpfCNzFcy7Ab1zgTFCf3aehHFZVU3HQqO53E7MLVAGI3sqlgeRkgdaZDGUee2SWUKFUq7NvZc57tnPTPOetCCyS3MAnBQ/3pyxH0JORSx/Y4oWiScYbO4mclj/wInP61x8srbMdmc341DL8PNTVneQrIo3Ock/vlrxivZfHMVpB4G1L7NMzM3l/K1wz5/eqehJrxquuirRJe4UUUVsIKKKKAPe/gvDJL8KdVMV1PbGPUJnJgIUtiCPjJBI+qkH3r1LU5GXRhtabc5jXELbZHyRlVbjBIyM5GM5yOo8t+CK6dcfDq9tdSuvJB1ORtq3bQFh5UY52sCR146V6Yh0RNPNn/aCNCTnMl+zuD2IcsWGMcYPHavZoSXs7NrZdTshGTimkLpCyPa3dvm8tdr4RLiUSzQgqOd5Lg85IyW/oOE+Jqvb/AA58RW+LyKLZbsiXlwZmci5QF1Ys2F+7xuyOMquee7hbRIbOS2+2QyxS/f8APvDKzfVnYn9a4r4pR6Rb/C3WhY3SzTyCAZkvGnkIE6HALMTjqcDirqSjyPVbPr5BKEuTY+bKKKK8M4wooooAK9R+Go3+GZIizKsl84YoxU8RocZHI/CvLq9W+GFt9p8J3KsrkfbW5QlSDsTuORVwi5OyRjW0gdS0zW9nKA7Hy5BGrn5mAJH5kZ/SiKQW9rcPsnWRE3ss8m4ng4PBIA4PSrq2YWDyfKYpjBByc/Unk/WkhshArBEkO7qXZnJ/E5NdHsqn8r+44uZHI+MyP+EL1EuLnzGWMhpX4ceanIUHC9uwNeRV7N46sUtvA+osiSDIiHzszBR5q8DJ4HsK8ZrCpFxdmrHZQd4sKKKKzNwooooA9i+E3z+D5ICzos2pyKxRirYEKHAI5HTtXch3jtZoBJIVS4WFZGbLbW2/xHnI3Yz149ea434P2q3fgi7R1cr/AGg5zGzKQfLj6MuCK9AWwRbX7OIpPLx3Zi3rnd1znnOc1+eZlUisXNPv/TPYoxbpqxWt4jFNcWkc02wIrI7vvZC24HBbOfu55z19OK47x+Gh8E61Di5RNkJVbmYyFyJ1BZSScDpxn04HfuY9Njjt3gELvHJ9/wA1mct25LEk1yXxG06Kz+HeqvGkpYiEF5ZHkOPOTjLEkD2rPBVYPEwV95R/Na7/AOY6sX7N+jPBKKKK/RzxgooooAK3NE/4834z+8OB+ArDrc0Rttm/AP7w9foKANE4DdPwzSkAMMgD1wabnnOB9KC2ccAe1AFXVsf2bJjb26Z9R61ztdDqrZ02XAAHHT6iueoAKKKKACiiigD3P4Om6X4Z6k9lcJbul/KxZot5wIY+nOAfcgj2r06/1KLTdKN5dMoUBQNzBQWOAAT0HJ69BXmvwWs2vvh1fQLdTWwbUpAzQhCWBijBHzKR/WvULS3e2txFJcy3JB4klCBsenyqB+lejSvyEvczNL1cSaLdXUt7BfNbNIXeBl28c4GO3pnnFch8R7k3Pwz1ppNQmnkKwkwmDy4h+/j+aMlQzD33MOfcV3lppwt7eeGa4lu1nZmfzwnfqPlUDFcX8UNO+yfDHV3a7uLnasKRibbiNfPj4G1QT0HLZPHXrTlfl17foI+cqKKK80sKKKKACvXPhWzt4TlhikaIyX8mXUAkARoeM5H6GvI69e+FMHn+D7gCR4nW/crImMr+7T1BHT2r1cqTeJ07HNif4Z2bXb29jKZXVnik8sSOMA5IwTj684x0PSi3lka0naG4muJgMhJohGVOOMLtU4+v51P9jjNoYHLOGOWdsbi2c7uO+aIrVo0kzczSSOMeawXco7YAUDjJ7V9byzvr2/rqeZdHHeObpm8D6nCZbmYFInDXEHlkETICPurkcjt+Pp4xXuPxAtfI8Aao7yyTyMIgZJMZx5qcYAAH4CvDq+VzdSVaKl2/VnpYW3I7dwooorxzqCiiigD3/wCCZvF+FWqSWFyls8eozMztFvOBBH93JABz3II9q9V1I3jaOxsPN+0EIR5OzfjcN23f8ucZxnivLvgXYtqHwy1C3W7ntA+qSB2gCEsDDECPnVhjntzXqS6dINP+zPqN27g5W4JRZF9PuqFI9ipB75rkn8TOOp8RBpcl1JZTwvPdC9U5H9oxxM0eR8pxDhWXg9DnqM+nG/E97h/gvrgvJvPlSZELhAoOLpAMAdB+Z9Setd1baabaGcfbbmW4nGGupNhcYGBgBdgx6bcdSQSTXCfFTS5NO+Euu7tSu7tZDC2ydYgAxuIySNiKf6UR+ImO69T5kooorrO4KKKKACvavg+0h8FzQQytC02pSAyKASoESHjIIzx3BrxWvbfg5bfafA10BK8LpqTskkYXcp8qMcbgR0JHI714+ctLC690ceM/hHexLc3FvLbm8kjlhl2GdETc4wCOCCucEA8djgDsy3nktbG9uJ7iW6jhZyjSBAxCjkfKoH3gw/Crttbi2h2B2kJJLO+Nzk9ScYH5cUkdtHHZi2I8yPbtbfyW9c/Wvh+eOqtpfseJzI4T4gXBuPh3rDSX0szlYT5Rh8uL/XJ80ZKgsPfcRz7ivB6+gPiTYfZvhzqrtczz7VhSMS7f3a+dHwMAE9Bycnj618/19pkji8PLl/m/ReSPZwVvZu3f9EFFFFe4dwUUUUAe7fBs3a/DDU5LG4S3eO/mYs0W84EMf3ecA+5BHtXq0ouJbMfZZY4pmA+eSMuB68Aj+deW/BOya/8AhxfwLdTWobUpAzQhCWBhjBHzKw79ua9NSymSwNv/AGldF88XBWLeo9MbNv8A47XkVvjfqeNXt7R+pHbX4t/Dsd9qExIjt/MmlKjJwMk4A/kK4D4gat/afwv8R7r62uWVrd1jt5FcQqZo8LlevufXOOOK9D02wbTrfyTeXF0igBPPCfIB2G1V/XNcZ8VbFrb4a+ILhruebzzAdkgTamJ0wF2qD045J6Uqbjz/ADX5k0nHnXqvzPmuiiivYPbCiiigAr0DwIW/sGRFYqWumG4DkfItef16D4DTf4fmwxUi6YhhjI+RfWtaXxGlL4jpN7iNl3ZYOE3Y9cc/rSgyBZYwxdlXKsQM85/DtTvJHlbNzE5zu4zn1oWLCMC7MW6sTg/piuzU6tTB8Us//CK3qymXdiMgSBf+ei9Ntea16b4ti2eFb1mkeRsIMtjgeYvoBXmVclb4kc1XcKKKKxMgooooA9N+Hfm/8IjdGCQRkXbkkru48tOnv+f0rtDve3Gx9jED5tucfhXG/DiEz+FLlBK8WbxslAMkbE45BrsFt2Fv5RuJWOeH4DD8gB+Yrlnuz6DDX9lH0IrSSSWOVVlZypwjzR4Ycd1GP6f1rC8ZGQ+BdREz72V0G7GP+Wq9q6KO38tX/fSPI4wZGxkenGMfpXO+NLZoPBeok3EsobyzhwvXzV54AojbmHVUlSd+zPIqKKK6j54KKKKACvXPhWzt4TlhikaIyX8mXUAkARoeM5H6GvI69e+FMHn+D7gCR4nW/crImMr+7T1BHT2r1cqTeJ07HNif4Z2bXb29jKZXVnik8sSOMA5IwTj684x0PSi3lka0naG4muJgMhJohGVOOMLtU4+v51P9jjNoYHLOGOWdsbi2c7uO+aIrVo0kzczSSOMeawXco7YAUDjJ7V9byzvr2/rqeZdHHeObpm8D6nCZbmYFInDXEHlkETICPurkcjt+Pp4xXuPxAtfI8Aao7yyTyMIgZJMZx5qcYAAH4CvDq+VzdSVaKl2/VnpYW3I7dwooorxzqCiiigD2z4RfaR8OtQaznWB1v5WLNHvOPKj6c4B9yCPY16VJHLc2aCK5e3dgpMkaqW98bgR+lecfBy1a88AXsK3MtuG1GQM0QUkjyoxj5lIr0m0t3toBG9zLckHh5QoIHp8oA/SvzXNZJYqburqXb/gant0P4cfQpQSXEFjfSG7a48osIpLgIACq852hRjdkfh1rj/iBcvL8OdbQ3NzcIFgYG6t/JcEzrwBtXK8enXue3eCziFgbRtzRshViT8zZ6nI7nrXG/Euya3+G2sSTXc107CFQ0wQbR5ycDaq/rUYGpTeJh35o20815fqvmOqpKm/Rnz1RRRX6aeGFFFFABX0v+zudQPwxvI9K8hJX1mTdNcKXSJfJi52BlLE8DGR1znjB+aK+jPgLpd9qvwuuobLUIrSJdZlM8ctu0izr5MOFO10IGeSAeehyMggHrj6rf/8ACMSXkSxvdRyeWJIreSZHUSBTIsancRjLbQT7E9TLpGqmTS57nUr6F/IJMj/YpLPylAz80crFh3OTgEVLFZanHpPkHUYBdq2UlitNsSjPCeWWJ244+8D6EUlppLmO6Osyw6hJdqElUW+yLYAQECEtxySck5JPbAAB558XNRvL/wCDfin7bbrbqr2pgjwd4jM8RG/P8R647ZxzjJ+Ua+qPiz4bi0T4T+LLi2i06GG6Nrsis7EQFALiPAZgx3dfQc5NfK9AtQooooGFFFFAFi28vaTLuIHRVOCfxqZkjSbB3bcZx3Ht/n8qZZSpEGLxlz/CQ2Nvv0NOLxmXd5bbO4L5P1zj+lADpYkjlQEPECMsr8sv8v6VHcrH5AeMMoJxhiD+PQVIZo/MjzETGn8Jfk/jimXcqSplEZT3LMDx6AADFAFOiiigAooooAK+hPgbcXtt8K9Tm06O3eRNSmYmd2AUCCM5wB830yv1FfPdfQ3wKtru8+FupW9lcQ27SanKrvNAZRtMMQOAGXB98/hXHjf4XzLh8Wp6tqF5Ja6Q1yjRRthSZJv9XGCQC7eygk9R06jqK2m6v52mXV1cXVreRWxJ+1WQ/dyKF3HA3NgjkfePT8BKdPvZtKFvdXdu9yjq8cqWxVAVIK5QuSeRz8w/Clg02R7W7j1SWK5e7G2UwxGJSu3bjBZjnHfNeJ7vK0Wr6XOA+Kd/Pf8Awp8QmS90+QR+Qr2lt88lu32iPh33YJ4PG0fpz8y19OfFfS7i0+E+rvdXMEywQwQW4itvKKp9oi+8dx3H5V6BR1454+Y69rBW9m7d/wDIyd76hRRRXaIKKKKANzRMfY3z08w/yFaIALe2OOcVnaIQLN8jI8w/yFaGRnpx6Zr2qF/Zr0Pfw/N7JegrABh2H1zVTVgBpshAIzjg/UVaJHYcfWquqkf2bIACBx1PuKqrf2b9GVW5vZP0f9bnO0UUV4Z88FFFFABXuPwdmu7f4cahLYpCzpqErEzMQFAhjOcAfN9Mj614dXufwat7i6+HN/DaTxQNJqMis0sRkG0xRg4AZefekxrfU9OmuktrP7RN0wOB1YnoAO5JOAKqW95evpNzNNDGLqLzNsUYLDI5C+pPbjGfapksjPYfZtWFtejPI+z4QgdMqzNz+NV9M0htNs7iGJ7aFpnLq1paiILn/ZJYGn1ZKvZHHfEO9muvhfrYubhJHUQEJ9hltmA85OcSMSR7j0r58r6J+J9pdL8N9YuL+5jnkCQoghhMaqDPGTwWYknA79unXPztQAUUUUDCiiigD3n4IzTr4DuIbNo0nm1SQK8qllUCGMk7QRn0xkda9Liub2SykCR273kMnlvl2SM9PmHDEcEHHPPGe9ea/BC2ln8A3L2sqQzxapIyPJGXXmGMEFQQTwfUc4r0xLS6hsXWC4h+1yNveaSEshY9fkDA4xwPm4wOT39SjfkR8JmHL9Zn6/18hbS93aLDfXrxx5gEsrj5VXjJPJOB+NcP8S7y6u/hZ4h+1wrBtkg8uMZ3BDLGRu/2u+B0zjnGT2lhp00OmfYdTktr2IIIwq25QFcYwwLNn9K4b4k6ImlfDXxJLDHZRx3DW5RLa08kqBOmATuO78hzn1p1OblfoRhPZ/WI668yt96PnWiiivKPvgooooAK9p+D8sy+C54rYxrLLqMgVpFLKoEUZJwCM/TIrxavavg/BJN4JuGt5Eimj1JyjOhdf9VGCCARng+vpXVhf4hx4z+Ed+kt7PaskTwR3McmyR2jZkOOchcg8gjjPGepxyWlzMkFzJqE8LJC5HmpGY1wAM8Fm6HI69qntYGghIkcSSuxaRwu0Mx9Bk4HQde1JFaRrYi2mCzKVIk3rw5PJJHuSa9ez3PDutjjPiFdXFz8N9c+0xLEFeDy053BTLGRu9/5dO2a8Dr3j4gaSmnfD/XpIktY0mMG1Le28sqBMnBOTn8h3rwevJxd+dX7fqz2sFb2bt3/AEQUUUVyHcFFFFAHvfwUnvLb4Y6jLYRwO6ajKxM7EBQIYznAHzfTI+tepX129tpTXKNEjYXMkv3IwSMs3sAc9R06jrXl/wAEre6u/hnqEFncQwNJqUqs0sJkG0wxg4AZeffP4V6YbG7l0wQXN1A1wjq8cqW5VAVIK5QuSeR/eH4V1wvynbC/KrEenajPeafPJDJa6g8bFYprVtsUxwD6tjBODyen4DjfinPe/wDCstetb6S3naNLZ/Mt42jCkzp8pBZueM5z36Dv2n2DUPsN0BfxR31x0uIrYhUwAAdjOcnHvXE/EvT7vT/hLrSXF1byxYg2rDbshLefHlmZncsT6k1Ur2foEr8h83UUUVxHEFFFFABXfeBmYaDKseAzXTYLDIHyLXA133gZGbQZSjBWW6YgkZH3Frhx1vY69zixtvY6nSB5WjIAXzFbaT2+v5c4/DPehZJBHKWCu0ecFcgNxn3+nf8ApSNDIYSqS7XZss23r7dePzpVhbyWjdlIIwNqYAH0ya8H3LHh+7YxPE8pk8L3w8yOUAR/PH0++OOp/wAmvOK9K8Vo48L3rSMrMRGPlXH/AC0Hua81r3MBb2bt3/RHtYG3s3bv+iCiiivQO8KKKKAPZvhFLKvgyeK2KLLLqLhWkUsq4ijJOARn8xXfJJeT2zJG8EdzHJsd2Qsh75C5B5BHGeM9TjngvhDBJN4LuGt5Fjmj1FyjOhZf9VGCCARng+vpXoltA0EREjiSV2LO4XaCfYZOB0HXtXVDY8HENe0fqQWkt40Nx5rQTSRuVjKIYlbAHXlj1yM+3SuQ8f3ks/w/1qKWe3uRH5OZbdSqq3nKChyW5GM9e/Qd+0jtmishCkpWTHMoUcseScH1Oa4/4jWk6eAdXuLueOWVkhQeVD5YwJkPOWYk8nvx6cmnLYVFr2i9V+Z4NRRRXIe+FFFFABXp3w31nVNO8MzxaZe3UKteMxSKdo1zsTk4+g/SvMa9A8DCdvDsog24+1NuyxU42L0ODQB3yeKtbMJeTWdQTbkN/pbkDH40kXirXpIWc6rqQIJ+T7W+f51liHzLcRzoqgHgRueMdOeDSW8UkMcmVG4sSAZWb9SKAKvjXX9X1DwPfxXuo3kkTFA0UtyzqcSrjIJx2BryGvTvFYmXwlfiVEAJQgq5PWRfYV5jQAUUUUAFFFFAHs3wm03TZ/h/fXt54ftNVnjv5FDTQxkooijPLPyFznoCeelelP4X8LQ2puJvD+kpGqb2Jso+Bj/drhPg0l3L8NdRisYoZJJdQlQ+dKYwoMMYzkK2fp+tek/Y21DTRb6tAiEMp229y55UgqQ4CkHIrvpr3CXuZNloHhq4sJLq58L6XaiNm3I9nESoHc4Xg46jt71yfxG0PT4Phzqt5b+GtM07aITDNHEizjMyDkKny5BPRjXc6dpEsel3tpeDyxcs+Ct3JOQGGPvOAQa434jaZLZ/DXWpJLa1t/khVmt3ZjcN58fzvlRzx6sfmPPrUl7u3T9BHz5RRRXnFhRRRQAV6v8AC/U9QsvCdxHp80y7r5jtSZkXPlpySPp6V5RXpnw8W6fwtMtrswb1t+5ypxsTocHFJpPcD0GPxBqRt2kl1C6j2Eh/9IYgY64OeaSDxBqs1u0hu71WBI8v7Q2T+uM1RW2820EN1GqAEELFI3GDkfNwc0y0t5reCUEKrsxZcytKPxJwaXJDsF2ZfjvWdSuvBOp2t9cTEbYmKfaWkUjzVxnOO49K8Yr1vxnBJH4P1KR4ooAwjykTEhj5q/MeBz+FeSU0ktgCiiimAUUUUAej/D62t5vDcxks4LiY3bKvmqOmxD1IPH+NdYLLThbtJJptsGU7WQQqefQcd65n4cJIfDUrwhWdLx8KzYByid8Gute1eW0dHIWR23naTgH0z6cYr77L4v6rFpX07GEpyTsmQpptr5bNLpNmCOVVEVifzAANc/4wtbaPwnqH+gWtvOgiYNCoOAZFHXAI7101vBJDHJsihgLfdjjJKD36Dr9K57xjA8fg7UnaOKEN5eUiYkE+avzHgc/hWmLi/q8tPsyvp5PyX6eglUm3ueTUUUV+enQFFFFABXp3w31C7tPDM8dnNIpe8YhFlKLnYmScfT0rzGvR/h8rnw7K8QUul43DNgEbE74Na0viODHtqjp3O3Gs6k0JZbi5MgO0p55wD9fTv647dqRNb1AxymW6uFeI4YLOzA8A8Hj1HXFVQkqwsQIzIzbmUk7T7Z+nfH4UyK1ZbeVCEiD/AHUjOVT+X16D+tddkeBzuz1/EzPG2p39x4N1CC8ml5EZ2+cXVh5i+uOQfb0ryKvVfGSyt4SvpJ1RTiNVVGLf8tFzzgV5VXLW+I93Lm3Sd+/6IKKKKxPRCiiigD2D4UX1za+D7hLR23vfuFQSlFJ8tOSR7D0NdyNW1KS3JiZzOr7Hja4IVT/vYPGMEcdx0rgPhbHK3hKaSAK0kd+5Cu20NmNB1wcdc9O1d3bRPGjNLtEkjb3CnIBwBgH6AV8Zjq04152l17v/AD2PJrQg5ttIfDrF/wCVO11K8ZhOCI52cHgHqQPWuY+IWpXs/gPU7e+LKSsTKonLqw85PUDkHH5jk9uhW1Y6e0LsA8gYsw5AY8nHtk1zHj9Lh/A+pTXaRxsqxoqxuX4MyEkkgeg7VGGrylXj732l1fdefUmnTpqaaS3PFKKKK+2PYCiiigAr6H+BUotPhXqV0mljUJE1OXglFCgQRHLM3IX6Bjz0NfPFfRfwIjvp/hLqsGmw28ss2pzRn7RO0SqDBEM5CNk9OMD615uZycaF0+q62MK6ThqeqarJZ6bor3/2KzO3ZxMRGg3MFyz7TgDOScHpVe0vLafw/dam1npUwhR3X7DcCeNwq5xv2Lg5yMYOKvxHVhpYzBZRXiEARid3jdR237FKk+u049DUdna6kPtl1P8AZILu4ChIoy0kabQQCzEKWJzycDAwOcZPyqr1FF3k73/mf3f8E8yKjbVHnXxNvYdU+DXiGeOLR8RG2Cvpt4LnBM8eQx8tdvGPXOa+Yq+pfjDb6hJ8LdevdTitbdlighSK2laXcPtMRLMxVfTAGOOeTnA+Wq+nyubnRk2+ve/RdT0MMkoO3cKKKK9U6gooooA9p+D97cWvgm5S1LGSTUXCJ5hRSfKjPJGccD0Nd+usXX2V3kaRZkfy2iExI3nGAG9DkHOOh6dq87+EkUr+DZpLcI0sWpOyq7FVbMSDBIBx1z07V3n2SZrWRn2C4eUTFQx2BhjC5xnGFAzj3x2r4LMK0liprm693/nsevRT9mrFmDVb5llWfzFuIhuMcU5YMD02k7euCOccj05rkfiPqV7P8P8AV7W+GxwkDhUuDICpmUc5Awcj0x79a6eGK6/fTyiGK4kUKqqxdFAzjJwpPJPpXH/EC0mi8B6xNJBb2okEW6O3csHbzkO85Vee3TJ7ngYzwdaTxEU5faj1fdX66r7x1b+zfzPDaKKK/QTxwooooAK63wrNLHpMgjZxmc8K2P4Vrkq6vwtkaXJj/nsf5LWlOKlKzR62UwjPE2kr6Ppf/M3RdTFA3mycjONxpRczlsGVwf8AfNQqGEYHGQMDmhQwz0+vXmut0qd9Ir7j6/2FJyVoLb+Vf5FHX7mWXQbgNIzD5cjeT/EK4quy18E6LOTgYCjr/tCuNrmqxUWkkfJZvBQrxSX2e1r6voFFFFYnjhRRRQB3ngfULu00OWO1uJo91yx2pKVGdq88V0v9taj5efttznO3Hnt1+tcn4NUnR5GXBZbhuCcfwrXQhCIyCqsWOSCeP5V+m5XSTwUHb7Pb/gb79/Q9yhSg6UW4rbsW11nUjuBvbnevVRcMf61jeK9Tvrjwzew3NzM6nYSrTMwPzr1zV2OJo1YqEVm6ADgVk+JI2Xw7eEqqA7PlU/7a81rjqVsJNuP2ZX0XZ26b7dvTs6tKKpN8qvZ9F/l/kcBRRRX5aeEFFFFABXp3w4WIeF52eJpXN4yqqHk/InuB+deY16h8Ng6+GZJY42lKXr5RSASDGnTJArWkk5anBj5SjRvF219DrglqbfzfJfOdvl87t2cY6+v4d845pYo7aRGLQtEUPzrIeV79iR09DR5Uv2cyeWfMMvm+VkZ+mc4zgeuM96DDJcw3JdDA0ybFVsEgYPJwSO5712ckex899Yq2+N/eznfGoifwXqDx20qKBGVkfgN+8XtnP5gV5FXrnjJJV8F6iXSZBtj3edIH3N5qcrgnA6+nUcV5HXJWSUlY9/L5SlSbk76979EFFFFYnohRRRQB7T8IdVfTPAt44ErL9vkO2KLcSfKj/AdOpIFejS6tPFB5pdm6YVUBLE9AK8x+FjS/8IBfpBbyXDyXsiBYyoxmJOTuI4rvW86exR/s0sckbq3lOU3Ng9iGI57c19bg4QdBXj0XT7/U55N3Li69ObWaWQSxNCCXidV3DjPbIOR6GuV+JGqXd58NdWW4t5oF/c8S+X8375Om1jW9GssqXE8lrtaVQot5WXkDPUjI5yfWuQ8eWwi8A6s8OnjT4SsIMXyDe3nJ82EJHA4znJ/AVeIpxVKXu/ZfTyfl+qBPU8Qooor486AooooAK73wPfz2mhTJCxAa5Y7QoOTtX1rgq7TwgzjRZfLUnNw2SMcfKvrQB1w1i8KbvMb0xsGc/lQNYuyrFpSu3qCi1SXIj4jOfQkZNJGpCvlDg/wsck0AVPFepXVz4XvI5mYKdmQVXn519K82rvfEcePD1021l4QAM2T99a4KgAooooAKKKKAPVPhm6R+FJyY3ldr5lVE6t8iepA/OuzWSFrcymN1KnayH7wPpx3+lcT8N5LmPwjOLSAys18wYgrlB5ac4JGfz/wrs1jd7HHkPGyyB9rspZ8EHJIOMnHrXy2LzLHUq0oQryik9EptWXpfRH3WX4XDzw8G6Sb5esVv621fz/EcksLRyNLE8JjGXR+oHrwSD+Fc545lWTwRqKtBJA4ETASY5HmrzwSP610QacCe6W2bzCgVIGdQWxk9QSBnd+lc140M7eCdSa5t5EciLLuUx/rU+VQrHj61GHzTH1KsYzxEmm0rc7e9rq19V99/vNMXhMNHDycaST5Za8i7OzvbR/ceP0UUV9YfAhRRRQAV3Xgm9ltdCmEbNg3LHAXP8K1wtdr4PJGhzYUsTO3TH91a9XKoqWI1V9H0v+B6GXUadaty1IqSs9Gr/gdUdSuAoPmdeg2ikGp3BUkuVI6gqtVNziIbYzu6YJH+NIA5jYbSrerEc/lX2UqFHntGmtv5f+Bv/W59H/Z+CclahHb+Rf5b/wBdin4pvp5/DN3HIxAOzIIHPzr6V5zXe+I1I8O3fysown32z/GPc1wVfI5xBQrRSVvd7W6vyX5Hz2Y0adGqo04KKt0Vur8l+QUUUV4x5oUUUUAe/wDwQg0uP4Z397qVlcXTrqcqqtujsSBDG2DtOFHXliB716vdaHolrZfaTp8kmdoSON2LOzEAKPmxySOSQB1JA5rzL4FPcD4RatHaWU17JNqU0YSFo1K5gi5O9lGPpz7V6nci7v8Aw9tOn3VvIrJutzLGsrqpBO1lchSQODuBB7jrXPLDUJtylBN+iJcIN3aKcGm6HJZXE9xpk9o1sCZoZXZnTjd/AzBsjptJ9OoIriPirZ6cPhTrrJpNzp13CLdlS4kDEq06DcCrsp7jGcjuBkZ76ysbkaLqEUNtc2rTg+VFfTLNJnaBy+98g9sk4+nFcJ8ULWSD4S+I5PsWoWcTJart1C6Fw7EXKchvMcgc9Mj6daI4XDxldQS+SFyQWqR8x0UUV0FhRRRQAV9G/ALU49K+Fuo3EsNxMBqsuEt4S5OIIjzjhRx1Yge9fOVfRPwKe4Hwi1aO0spr2SbUpowkLRqVzBFyd7KMfTn2rOpCM42krrzDlUtJHsl1era2X2kxySZ2hI4wCzsxACjtySOSQB1JA5qGDV45LK4nuIJ7RrUEzQyqGdON38BYNkdNpPp1BFVLkXd/4e2nT7q3kVk3W5ljWV1UgnayuQpIHB3Ag9x1qKysbkaLqEUNtc2rTg+VFfTLNJnaBy+98g9sk4+nFZPB4bX93H7kZqnDS8Tk/jBqRvPhBr8M9lc2UyC2byrjYSym4jAYFGYdQeM5HccjPypX058ULWSD4S+I5PsWoWcTJart1C6Fw7EXKchvMcgc9Mj6da+Y62hThTVoJJeRUUlokFFFFWUFFFFAHpfw51a70/w1OltIQGu2OxVUknYnr9K64eI9Q8sv57DHBXy1zn06VwvgUMNBkdVLlbtvlGMn5F9a6bYxjLbSGLh9nGeMcenaqWCwtT3p0otvq4r/ACO2E5KKszTHiPUTGzNMylBkqY0z/hWD401q/vfBl/FclxG3l5DKnP7xT2q4oZvMcx4LAAI5HOPXGfWsLxTHt8L3pSDyEwgK8cnzF5wOKPqOFh70aUU1/dX+Q5zly7nm1FFFScIUUUUAFe7/AAY8PeGr34bX+qeINJub+aPUpIk+z+aW2iGNsHYQqjk/M2Bzya8Ir6Q+Ar3C/B3V47OxnvZZtTmiCQtGpXNvFyS7KMfQ59q83M6k6dDmg2ndbO34lwqTpy5oSafdOx3V38OfBNpYG6bQ5JB8oSNLmXc7MQFUZcDJJA5IHqQKht/h/wCC5bSaa58NXdo8AzJbyTSvIBjIIEcjBs9tpPp1GK6hnkvPDri80a93YCGz82IStjHzKyybRjqDuBGOOcVW0TTn04Xt+LK6R50UJay3PnzsE3EbndyNxLEAbyAAOeuPlfruJUHetK9/5n/n+hSx2Lsv3sv/AAJ/5nl/xN8IeFrf4PaxrGj6PNZ3ELxohnlk3L/pCISVLnqCeCMjPIBr5sr6p+Ks943wX8SxXmk3diGmjlV53hYMGu4yB8kjHOD6Y96+Vq+myqpUqUpOpJy97q76WXUiVWpVd6knJ+buFFFFesSFFFFAHoXgNIR4bnkmjdyLpgAgJP3F9On1NdY1tbCLf5THjIAJJNcv4ALDwvc7I2kJumGFI/uL6kV1aPJ9mB8hgy4GxmGT9MEivAxOaZhSqOFKvOKTtZTaX3X0PpsK/wBzH07EUcNs6uXgaIp95XPQevBIrD8XRw/8InekQPE4CFd56jzF56mtyKBjDOuxoxIMKJG3NnGMk5PHTvWN4y3yeFb2R4miCqigMQc5kT0J9KVLNsfUqqEsRNptJpzk1Z20tfVPZ7jrOXsZadGeWUUUV9AfMBRRRQAV7d8HbLSm8A3d7q929uBqMkahWHz4ijOAMEsevA5rxGvfPgvcLb/CnVQ0c8hk1CaNVggeUkmCPHCAkfU8V04b47+QeyhW9yoro76fwxpNtam4mubpYwAcggk56AALkkkgADkk1FBoOiXFpJcrd3UcUWfMM37ox4GfmDKCvGDyOhBrSubn7XoAktluo9rJuJtXWVACMsqMuSR1HBB9D0o0mV47W7uP9MuxvBV57fyppMKONpVBx24GfevYcY3at/X9f8OSsDhXb3EeefEnTtJ/4VnrM9hNdmaAQEx3EbRnDTIAdrKpI64I44r57r6N+JztP8O/EU6teTQtHbgSXlu0BjP2lDsVSq5GD1259WPQfOVeVi7c69P1Y1Sp0vdpqyCiiiuMYUUUUAerfDDVn07wncqApU3rHlSxJ2J0A69K7ZfEErReYBDsxkkgjHrnJ4rzv4enZ4dkkIYqt4+4KpY8xp2HNdU6SPaSNGpBZw4Vl5xkdvw6V9jgptYePkjnl8RsJ4jkdGcKgVeSzRsox689RXN+O9ce/wDAuoxbVAPlZBRlb/Wr2P0q2kxW3ldxNcIuCA0OHJ9MYHt2rC8XSeb4Q1F3Vw5EWcxsqgeYvAyBn61eIqN0ZK+8X+T8xR3PK6KKK+LOkKKKKACui8PancWdi8UCRsDIWJcHjgD19q52tfSE32z5YAB+hIGeBQB0H9vXu7b5UOfof8aRtfvFPMcH4An+tZjKTJglenHPH50rkBkyFwOqqePzoAl1nV7m50mWGaONVkCnKg5+8D6+1ctW7qmDYEjqevzA9xWFQAUUUUAFFFFAHtfwft9MXwHd3eqXTW4GoyIoDDLYijOAMEsevA5r0m40PSrW3NxdXckMIx88kiqOenUVwHwduFg+Fuqho5pDJfzRqsMDykkwx44UEj6nivUYtRh/s0XPl3QRMKVNpKHz0+5t3H64rwMRhaM6spON3cylm2Povkp1GktLGfb6Bp11bRzwTXDRyKGUnCkg+xXI/GuN+Jen6aPhxrkljcSSyWrxRuCRtDecgIzjnGe3Q8dq7fTJJL3w79ntWuLO4WHyxJNauhjbHUBwN2PauF8fpPB8NvEtvMVKRfZlQpYywKcTICQzsQ31BPr3pUcHQjVTUdU1+YLN8fUfJOq2no15PQ+fqKKK+gNQooooAK9h+FOgaHfeB7rUdbvprUrfvEgjdRvxEjYC7SWbk8D06V49XvXwZuFg+FGrBo55Glv5o0WCB5SWMEeOEBIHueK6MPWnRnz03ZmdSvVoLnpNp+R1dx8PPDtpbG4utQu4YRj55Jo1HPTqtOtvhzoN3ax3EF3qDRSqHQllUkH2KZH411MWpQf2YLry7oRrhSptJRJnp9zbuP1xVCxd7/wo9rbJPDcLbGLFxbyQ4Yrj+IDP1Ga9N5jil9tnGs3zBrWqzzP4heGNCtPAGrXel3N/PJbiIq7ofJbMyKcPsCt17GvCq+jPiTPcP8LdbR5LuSMRweYtxaeSsL/aI8LGdo3L97u3QfNzz85152KrVK01Ko7ux10sRWxCcq0m3tqFFFFcpqFFFFAH0V8A9Vi0v4bXrzk7W1Z1VUjaR3byYuFVQSTgE8DoCe1epnxBbjTTfbt0AODticsGzt27AN27PG3Gc9q8b+Cuotp3w7naKymuJpNWlVJEt3lWH9zFlm2Atj2A5PGQMkenJ9mm8POZrfUJYmk3SnypIpmbdkyBRhxyMgDnA4FAGvDr0M1nJdHdBBFne91A8G0AZJxIBx79K4n4uatFqfwY1qW1dZIWaFQ4UjOLiMcZ7cdeh7V0WkyiGC6kjW/+wpgxfalleUkA7sK+ZCOmARnOccYriPiTfR3Hwj8QxrDdxt5ySDz7SWIFTdIRguoB69OtPqLpc+bKKKKQwooooAK9Q+GnxF1bwj4auLDTbeyliku2mJuEctuKIOzDj5RXl9dJ4d/5B0n/AF1P8hTQmeuf8Lu8Sf8APlpf/fqT/wCOUf8AC7vEn/Plpf8A36k/+OV5zRTJuzpvHXxS1vxH4LvtKvrWwjguPL3NDG4YbZFYYJcjqo7V4/XV61/yB5/+A/8AoQrlKTKQUUUUhhRRRQB6P8PhEPDU7ylh/pbABRkn5E6AcmutWKBovMDnZjJJ4x65z0rk/h6dnh2SQhiq3j7gqljzGnYc11TpI9pI0akFnDhWXnGR2/DpX1OEo03QTcU9DN1Jp2TBBbujOGkCryWZSox68jkVheMPJfwfftEX3L5eVdSp/wBYvYgGtxJitvK7ia4RcEBocOT6YwPbtWF4uk83whqLurhyIs5jZVA8xeBkDP1q69KiqUrJX5W/wfmJVZvdnldFFFfJmoUUUUAFe/8AwM8TDw/8O73zXgjjbU5CDICWZvKj4UA5JwOgGa8Ar2z4RzrB8N9R3JK5e+lRRFC0hyYY+ygn8a8XOlfC281sdGHhGdS0j2W48Zz21uJpY4yhIA8uF3Y56YVcn9KZB44kuIZZVSONIeZDPBJFtGM5+fHGO9Y9jcJc2iMiyqFAUiWJozkD0YA/jVYRytpF1IIszXAd9jAgnIwoI452hR2r4FPdSunf+tLHorD0nZqKMv4reLG1n4U63bBFUfuNyvBJE4HnoQcPg4OOuMcGvmaveviAWk+HmtP515cKEgHmXlsYWB89OANi5H4fjXgtfdZFHlw81/e/ReS/I87ERjGSUVbQKKKK945wooooA9H+H0yw+G5y/T7WwAAJJ+ROgFdV9qj8nzd3yeuDnOcYx1znjHXNcj4BOzQHkIYqt2+dqknlF7CunaUxQtL5LuXkyi7DkdsnjI/LPNcc8HQnJylG7Z5NbMMXTqOEJtJP+kWEuUeNnDYC/e3Agr9QelYPjC4SbwffbNwI8vIZCp/1i9jWvEVkt5TIJDuzvJjZc8dh1rB8WK7eF72QyTOgVFBlXaSfMXtgenp3pRweHjJSUFdCp5jjJzUJVHa6X9aHmVFFFdp64UUUUAFfRv7P5gg+Gmo3N5cx20MeqSb5JWCqo8qLkknA6185V9C/AieG0+HzXN7LHDaRa3KZJZWCoh+zxhSSeBzxn1Iqo1JU3zReo02tUevqlu9oLpLuNrcp5gmBBQrjO7dnGMd6ijmsJdPN/FqVs9mASblZFMYA6ndnHFUvMhbSbi7jaM6e98s4cEeWYtyl39Nu7c2eh5NW9MltdQvb66snhubKby8SREMkkig7iCODgbBn/Zx2rb63X/m/BD9pI4T4tX2mah8I9dOmapaXpiFuXW3mV9ubiPGcE4r5dr6n+L5Nx8KvFF0Tld9vBHz/AApcR5/8fLD8BXyxWU6k6j5pMTk29QoooqBBRRRQB6t8MYI28I3U89wsEaXjAs+AB8idyfeu1+wRfZ/P+1p5O3f5mBt29c5z0rjPhfJHB4WaW4dEhTUZNzuQFU+UmCSenp+NdtHJbLZyTSmMWzTF43ZcoOc7vpuyc/jmvboYutCmop6L0Pl8XisRCtJRlpfsvu23IVtbZrY3C30RgHWUEbfzziub8cJayeBtSe1vobjy/K3CNg2Myr6Guq0xlnNy5eK4DyhjLEv7tyFA469Mep+vYc/4+PmeBdZm7Foo1+iyqD/49u/Sqq4uvKm05aNPoiKOMruvGEpdV26teX+R4jRRRXhH1YUUUUAFej+APAMPiXwrdatda1HpsUF00LeZCGUYVDksXGPvYrzivc/gvPDa+CGuLySOK2j1eXfJKwVUJgQAkngc8fUj1rkxdSdOneD1PNzKtUo4fnpOzuv61HxfBOOeFJYfEqyRuoZHSzyGB6EHzORUZ+DdqttJcHxVCIIyQ8ptRtQg4IJ8zAweDXoyrc3Gk3baK0O24uC8LFyilCRvZWAOCTvIbB5IPNM8LSwXOlSxwrY+TFOyolpP5yKAQRztH4fga8j63iFFy5tvJf5HzDzPHKLl7TZ9o/5Hjfir4fWGl+D9Q1Ww8TW2pm08vdDBGv8AFIqjJDnHXPTtXl1fSPxRPn/DTxFc5ypeCGP/AHUnQH8d5f8AIV83V6uDqzq025Pr+iPo8qxFTEUZSqO7vbp2XZIKKKK7T1gooooA+gPgXcQWnw7v57ueO3hXU33SSuFUfu4upNenNd2qWX2x7qFbXaG88yAJg9Du6YryL4O6pp+l+AZJb8x+cdWlFsJZAi7/ACY8kseFwCeT64GScH0iN9Pl8OySf2iggeYyPd22CiSb9xIJBXaG7nj1rCVCnJttGEsPSk7tbmpaXlpqEJlsLuG6jDbS8MgcA+mQevNcX8Vry1vfhNrT2V1DcKjQqxikDhT58fBx3roIbl7zSdQS2vG1OFExHc4U+YSDuUFAFbHqB3x1BrkvipdWl98PtYn0ueGeFLeGOWSBgy5+0xlVJHcDdx2z701h6aldISw9KPvJHznRRRWx0BRRRQAV7d8GfEi6L4JvI5LcOv295C7S7Qo8uMentXiNel/D826+DbproxAC8fYZMcN5a4xnvXFja1SjS5qbs7rpf8xOlCr7s1oeznxwApY2ICgZJM/GP++abF47jnjDw2ayIejJcZB/HbXGNPFNYrJFIkkasu9lYEAAjOaaWWdLuS1ZZEeMAMhyGYA5+vGB+HtXgrM8dbWf4L/In6jhv5fxf+ZY+Jni+LWPhrq1tDAmGMQLpOH2kTIcdPavnyvXPG8sM/hO/e1eORFjjV2jII/1qbRx/wAC+mfevI69vAV6tem5VXd38uy7WKVKFL3YKyCiiivQGFFFFAHu3wS1+LR/AV6J0QR/2i7GR5QgGY4x3HtXpS+Lo3hEyW6NERuDiYFSPXOK8X+GV7aWXg+SS7Kb/wC0X8kOwUbvKTnJ4HGeT+HNdujwvpZlimiljM4eZ0IKfeBbB9B61F3c+rweCwdSjFyim7Xerv8An+HzOwh8XxXMQkt4EljPR45wwP4gVyHxV8RJqHwz1i1SFVbMIbEu4r++Q8jFPilNw93NprxSBkURvuyjSAHqR/wEH6e1cd4wfb4J12Bvs+9BBv8AKuPMYt5q5LfKOc0Xdy8TgcHTouUYa2lrd9E7dfI8doooqz5EKKKKACvYfhR8NYfFvgm91m511NLhtrx4n8y3DKAsaMWLF1AHzfpXj1fRXwRfSYvgrq0utNZIF1Wc273ZQYl+zR42Fv4uuMc1x4ypOnSvB2d0J66GnL8BIYLd7ifxWkcKKXeR7IBVUDJJJlwB71HZ/Auz1G1Fzp/jGC6t2JAlgtA6HHXkS4r1K5v9L1LwqbmLWLJLaPYfthlR4Y5FZSoY5AI3YBGR1xkVm217ANP1rU9dv7W70h4kElxb25jhlxuDbQGYuCCi53NnBHbFeMsZirP3tfRf5GCk2keK+OfhhYaV8ONU17TPFVtq8dm0SMlvCpBZpUXBYSNgjdnpXiFfUfxV1XT9a+E/ia8tbqzecwWifZ7aZJTFELpCvmMhI3ZJ4BIHbPJPy5XsYOpUqQbqPW/6I1g7hRRRXaWFFFFAHoXgHUBaeH51Kbh9pY5LYx8q11B1kAZMPHrv/wDrVxHhHy/7DmMm3i4bG7/dWt8yxiEMWBA44PevvMvdNYWPNbRJ7+p9NhsBg50YyqRV7X3f+ZrjWlZcrECPUP8A/WrF8Xaot14TvI1Qc7OQ+cfOtODho3ZSGPfaelZXiJt3h67+dXwE5ToPnHvV4pxdCSS3jL8n5+Xn/mVsBg4UnKENbN7vpfz/AM/M4OiiivgD5kKKKKACvbvg3fRWXgW9e4ZI411Byzu4UD93GOprxGvXfhdfWdj4LkkvCm/+0n8kOwUbvKTnJ4HGeT+HOBXi53B1MJypX1Wx6WWqDr+/tZnqqalE8AmQo0RXcHDgqR659KSDVIbqES2zRzRno8cgYH8RWKkkEmktLDNFNGZw8zxkGMfOC+D0IAzk/WlaWG5i1Ca1K3Fu8AGYmBEjANnBGcnG0Z56Y7V8F9XWu+9v68z6lUaN1p07vz8/L8TJ+JOqW9/8M9W+yyxTKDCGaOQMAfOTjivn2vbfHc4ufAuruLu0vCI4FMlqMBR5y4B+ZueuOfWvEq+4yGmqeHnFfzfovT8j5jNFFVo8q6fq/N/mFFFFe+eWFFFFAHpXw72L4ZuJJJFRRdNkscAfIldcsauoZHDKRkEcg1x3w+dY/DzySsqxrevlmOAD5a4rqXObGVogGjZ9wAPBXIz+B5r6PDYPDToqU43dr7v/ADPPqYWlObk1qyWMxS7vKmR9pw20g4+tYPjJopfBl88MySqDGCUIP/LRa2VuYjaSmeWGSBAMvEMLj0xk/wA+9YXi2eK48JajIjxl9sQ2IwbavmLjJHfrTrYPCxptxir2b3fZ+fl5/gTDC0YyUktn5nllFFFfNnpBRRRQAV7p8EvHGm+GfBV3Z38F1JI+oPKDCikYMcY7sOflNeF12ng8btJZWGUNw2Qen3Vr1cpwtPF4n2VRXVu9jpw1ONSpyyPob/hbWhf8+mo/9+0/+Lo/4W1oX/PpqP8A37T/AOLrxgIXiZRjAbgHoR6UkWB5isFRAcYU8D8a+u/sDAcyXK9V3f8Al/XY9H6nRulb8Tufin8Q9J134aarp1pb3qTTeTtaVECjEyMc4YnoPSvnSu98RgJoF4u1UOEO1en315rgq+UzfCUsJWjCkrJq+99bteXY87E04058sQooorxzmCiiigD3b4IaDdap4JvJreSFVXUXQhyQc+XGewPrXo//AAh9/wD89rb/AL6b/wCJrhvgPBFd+AWtbuJZrabWZhJG4yrkW8ZAI6EcZweOK9JmhRdDubOCFZLYXqw28DNtjZd65jJ5wm7cpGCABtwR8tdEKskrHxOOjfFS16mf/wAIff8A/Pa2/wC+m/8Aia5D4q+G7yw+Geq3M0kDInk5CMc8zIPT3r0CyWfS9E1YW9nDaTQBnitbUl4oz5YI2fKvU8kBRyTwc5PC/E6GCD4U62x0y3t5rmGCVLtZhNNOn2iH/WuVB3fMvGWHoeBTdaTTRGFp2rwd/tL815/lc+a6KKK5j7kKKKKACvevgbfxWvge8SRXJOouflA/55x14LXr3wpjSfwm0E6CSGTUpAyMMhsQoQCO/TP4V5eatrDXXc8nN4KeFafdHsv9sW/9yT8h/jR/bFv/AHJPyH+Ncipnt9PuE06EyBJikKqR8q5G7G44+UlsDgcY4FRWRMGh3SpDNb+W0n+tcFvUnKk89ec9a+U5p2vfrY+Q+qxte474r6lDcfDDVokVwzeTjIH/AD2T3r5tr3D4iW0Nn4M1SKziSKNoomkSMYGfPQKcep+bnvj2rw+vp8nk5UG/P9EfV5LCMMO1Hv8Aogooor2D2gooooA97+BeoxWnge8jkVyTqLt8oH/POP3r0r+27b+5L+Q/xrxj4Wi1bwTOt4PMU6i+2DG7zT5acbe/r6cZPSu4EXlaYIsKEaZVaJDkRqWGU47AH/IrojTi0fUYXLsNUoxnJa2vudf/AG3bf3JfyH+Ncd8WdUhufhfq0SLIGbycZAx/rkPrTxBBAt7bReXbWvljoAEjYg546DjBx7+9cn46tlsPAuq2wjswzxwuWtYPK4EyD5hk568H2NN04pFYjLcPToymovRPrs1t63Z4pRRRXMfKhRRRQAV6r8L/APkWLj/r8b/0BK8qr034cIsvhtopVDxvfOGUjIb92pAP5fpXmZpFSw9n3OXFVp0KfPDc7yiqUccJt5YHx5HmlEUtgEf3fpnIx0xx04qO13wR3aQwIJUO5YI2+QfKMAHtk+w+nc/K+xVnqeT/AGnibPVfcZ3j7/kR7/8A7Z/+jFrxivV/FYZfBmsB4pUYtEzNIVJYl09Cf/rDAryivp8qgoUZRXf9EerhK860HKbu0/0QUUUV6x1hRRRQB7P8HlJ8IXWP+f8Af/0XHXfbD7V5x8KY0n8JtBOgkhk1KQMjDIbEKEAjv0z+Fdupnt9PuE06EyBJikKqR8q5G7G44+UlsDgcY4FfL4rH4inXlCDW/VfqcM+JsxwsvYUpKy0V109TQ2H2rlviUhHw81M/9cv/AEalalkTBod0qQzW/ltJ/rXBb1JypPPXnPWuf+IltDZ+DNUis4kijaKJpEjGBnz0CnHqfm5749qmjmGIlXjCTW6W3mvMI8UZlWn7GclaTtstnv18zw+iiivqjuCiiigAr6O/Z68SWej/AA+vre5jnZ21SRwY1BGPKiHcj0r5xr134YW8dx4AvxLuIW8kOA5AP7pOuDyPY8VhiKUasOWexpTgqkuVn0N/wnWmf88Lv/vhf/iqP+E60z/nhd/98L/8VXnUiRSWax3BGxwq4LbQx9PfPp3rPgUW1nqERjS2KDPlWzZVAV6qeOT16L/U8H9m0PM2+rUtDc+M3iux1L4R61aQRXCySeRguqgcTxnsfavlWvavHMBtvAurobWC03JCfLt2yh/fLyflXn8Px9PFa7sPQhQhyw2MJwjB2QUUUV0EBRRRQB3nge3aXRJmUgD7Qw5/3Vro/scnqv51z/gYB9BdGGUa8YMD0PyLXSiPdDLFHgKGwo7Y4yPpnIrCXEmYYV+xpySitNuh9FhsbWp0YxjsiL7HJ6r+dZHiu2ePwxdsxXA2dP8AfWtqHfH5wSKMbQCI4243c8Z49u1YnibcPDGo70dWIiLFiOTvHoTTXEuZVm6U5Rs7J6K9no+vmOtmFadKUX1TPOKKKK2PnAooooAK9y+Clq8/gu7ZCoA1Bxyf+mcdeG17f8Goo7nwU1tcxrLBLq0oeNxlXxAhAI7jjOD6V4meRUsG0+6OfE4+vl9P29B2l5q56R/Z0v8AeT8z/hR/Z0v95PzP+FQKbm10u6j0mAyiO4MduiMvyLkbtu4gfKS+FyB8oXgVDpjy2fhy/wDstpPDJAZjGs7K7s3JySrHJz155Oa+F+rLlbT62/r+u55v+t2bWupR37L/ADOe+KVlJF8NdVdipA8nof8ApslfO1e+/EKOGH4b6sTYQwy3EMMiXCy+bLKnnxf6xsA55XjLD0PFeBV9tkMFTw0kv5n+S9T0cPmOIzGLq4hptO2itpv0b7sKKKK986QooooA9M+G7hfDk4P/AD9t/wCgJXXeaPeuI8B+UfDcwm+YG7bEeM7zsTt3rqNu21C8YLgMoPCjPSv0DLYReFhp07/npofb4HI8DXw0atSLbcbv3v0t+vyL/mj3rB8byA+Db4DP/LP/ANGLWlHEqvLEg2R4GAny465xjpWH4rRY/BmoKgwA645/6aLXRi6Ufq9TT7MuvVG2J4fwNLDzqxi7pSfxdYp+Wq0PLaKKK/Nz4IKKKKACu98D2clzoMxWMOv2lgckddq+tcFXpPw8+bw5JHllV71wSrYP+rU9RXfgMVPC1vaQSejWu2p0YebhO6Nj+y5yu0wLt9MjFKNMuAu0QgL6ZGK0sSG2ljjLMUfaPm+Yjg4z684zTIZmijuMxyKI03hZX3t375Pp6mvov9YsSnfkjt2f+Z6P1qSeyOX8VafLbeFrxzCqKNmcEf319K82r1TxcR/wiF+X8/eyxkNI3yuPMTkKDgduwNeV14GY4yeMqxnNJWVtNt3/AJnn4ip7SSdraBRRRXmnMFFFFAH0F8Cr7R1+HF/Y60IpUk1N3MM0JkVh5cWCRgjqP0r1A614bNh9iLQm02bPs/2ZvL2/3du3GPavAvhsjP4Ivdk0kW27kJMZAJ/dpxnGR+GDXcTswtUAYjeyqWB5GSB1rmlXlF8qseXWyqjVm6kpS113X+R6LZ614c0638jT2htYck+XBbMi59cBcVw3xWvPDy/CvXo9Hjt4bi6MDP5Nt5ZkInQ5Y7Rnv19aoQxlHntkllChVKuzb2XOe7Zz0zznrXOeNQy/DzU1Z3kKyKNznJP75aFiJt2FTyijTmqilK6d910110PGKKKK6T1QooooAK9b+Fl3pyeDru21LYyvfMxjkjLgjZHjjBHUV5JXeeCOdBkXJAe7YEg4P3Af6Vw4+kqtHlbtqdmDy2jmdX6vWbS391pO/TdP8j1qPWtKhjWOKZURRhVWJgAPQDFR2+paJaRlLQxQIxyVigKgn6AVxu4ojqCfldVBJycHHf8AGlQFHeNGPCgqWJbBOfX6V89/Z9Oz95ntLgTK2+Xnqa7+9HfX+55Mt+PLvSV+H2pW2miKIuYjsihKAnzU9gOgrxOvRfFBZfDd2pSRQyqTvfdkiRenJ9favOq9/L6Ko0mk73d9fRHi4zK6GV1PY0HJpq75t77do6WS6BRRRXoHGFFFFAHs3wi06G/8GXP2m1iuFXUHwJUDYPlx+tehR6ZHFbm3itYkhOQY1VQpz146VwPwfXzfBsluzyIkupSbjG5RjiGM43DkfgR0r0GG2+020lrLNcFIZiquszK7DAIBYEE4zjrk45zzXv4bCU6lJPW7X9dB/wCsWJwv7uEI2Wl2ne33obDpy28Pk29tHFFz8iKFX8hXJfEbTYrH4b6qLa1it0JiLCJAoJ81PSurtrVzpt4lpLMDKXWFpZ3crgbQdzEkcgnj1rkfiBG9r8OdYguImjkdYXH+myXKkCZB1fBB57DuPwqrhKcabeuz/L0H/rJiqy9k4Qs9NE7pPR297/M8Gooor54kKKKKACvRPAOq6XaeG7i21ORcvdM+x4i4I2pg9COorzutzRDiybH/AD0PUewrkxdNVKXK3Y3oYKnjp+xqNpeW9/uZ6l/wkegmHyftCeVjGzyG249MbaWLxJoUEeyC4SNP7qQMB/6DXnoPzE8D69qU48wdOmT6GvG+oQtbmZ2/6q4G9nKf3r/5E6Pxfq+jXHhTUIrB4/tExQnbCVLnzFJycfWvLq6LVv8AkGv0JOOQMZ5Fc7Xr4OkqVNxTvr+iOKvgKWAkqdJtp6679uy7dgooortMAooooA9W+GOq6Ta+ELq01Z0O+9Z/LkiLgjYmD0I6iu4j8U6DDGscV0qIowqrC4AHoBtrxzwuM6XIMkfvz0+i1sLkxLzzgc1x1Mjw+IbqTlLXXdW/I9SlwpgsZTVapKd5K+jjb5Xiz0e38Q+G7SMpaSxQIxyVitmUE/QLXN+ONW0J/AOo2mlNEjyGMiOKAoGIkQ+gHQVzqdSRyvb3rM13I0ScHrhec5/iFKOR4enL2ilK611a3XfQKnCmCw8PbxnO6V9WrXW32dV80cdRRRXaeWFFFFABXsXwmtbe78GXKXUEcyDUHIWRAwB8uPnBrx2vXvhSPM8JSQFnRJdRkDFHKk4iQ4yOR07VjWk4wuiKlaVGPNE9BSytY7ZreO2hSFs7oljAU59R0p0NtBbw+VbwxxR/3EQKPyFVooPPgltpJZikUu1WWVlYjAIBYHPGcdcnHOeaLKDFvOIpplV5GCM0hkZQPlyC+e4J9K4vrEjn/tKqui+5/wCZzvxCs7az+HeqC0t4oA3lbhEgXP71PSvCa9y8dBl+Geqq8jyFZVG5zkn9+teG12UJucW2bU60qybklppoFFFFbmoUUUUAep/DPw/f6v4WuZLS0E8IvGRsuoGdiHGCfcV2P/CF6wY/LOnLs6bfMjx+Wap/BdIm+G94bq7ktrddVcyGNyjP+6iAUMpDDJI6cngd8H0y0triTSfKa5ubcsxMbkhpUTOQCWByccc5Pvnmvk8Zf20nfqfQYelF0ot9jgE8G61GoVNPCqOgEsYA/Wuc8deF9R03wXqN5cWKxIPL3yB0J5kUdjk8mvYbNJpvDSRxSv5zW5VJHclt2MAluv49a4T4kRS2Xwx1u3u4njlkSB1P9oS3SsFuIweZANpyw6Dn8KjDRftlr1X5jr0oqk35P8vQ+d6KKK+vPngooooAK9/+Bml/2n8O7+Oa1juYDqbhklCspIjiPQ/hXgFfQvwPgkm+EWrmK8uLUx6jO5NuwUviCPjJBIHupB964cdQjXo8km1qtjnxGFjioezk2vQ9Li0iaCFYoLZY40GFRCoCj0AHSo7Tw/8AYIzHY2ENsjHJWFUQE+uBWjqsjroQKtNvcxriFtskmWAKq3GCRkZyMZzkdRX0mBrmxvbOb+0LVN4CxT3JaeJSoP8ArQzHk5I+YkZ6jgDwf7GoWfvS+9f5HlrIsM18UtfNf5HAfFbQ0034W65NBYwW3mGAytEiqXPnpgnHXqfzr5pr6d+K1lHa/DDxT9nlunhj+yxYuLuWb5/PjYkb2OOGUcehr5ir3MBho4ek4xbd3fX0R6WFwsMLBwg27u+v3foFFFFegdQUUUUAet/CvwnqOv8AhO4ns7BLqFL50Jd0GG2IejH0IruV+H2vpH5aaUip/dEsQH5bqqfA2CWb4Oay0N5cWhj1GdybdgpfFvFwSQSB7qQfevY79Vk0k+detZwhQ004fYQg5b58/LkfxdQM4wcEe1h86rYemqcYR0VrtO9vPU2jxdjcFajTpwaWl3F3t52kjydfh9r6R+WmlIqf3RLEB+W6uX8f+CtU0bwJqV7caZHbwxiIPIrx8ZlQDoc9SK910y3nbS7pbe5uoLeVj9kkuWaSWNMAFsyZbruI3k4yO3yjz/4pRoPg/wCI5NPuLmfTWW1ET3Fw83mP9oTc6M5J2kbR12nGQO5urnlerBwcI6q2zuk1bvoOXGGNxK9hOnTs/d0i7pPTT3tHr+B8vUUUV4RgFFFFABXqnwy0y5v/AArcmG1uJkF6w3Qq3B2J3Xoea8rr3v4LG8T4WapJYXKW7x6hM7M0W84EEZ+XJwDnuQR7VpTdmZ1KzormSLf9g34h8oafehfaNwfz60sehX8SbU027weTmFyT9SRk16fMLmWzH2WaOKZgPnkjLgevAI/n+dVba+eHwyl9dMZnjtvNdjgFyFyegwM11N2OVZrN6qKPFvHOi3Nj4J1CZ7K6iQCMFpFfao81eBngD6V45X0f8S7o3Pwt11pNSmuJCsBMJt/KhH+kR/NGSoZ1/wBrcw59xXzhXNV3R00q7rrmatbQKKKKyNQooooA9i+E2h3mr+C7ryLK8uIRfupa3WTGfLTglfY9K71PCuqJbmAaTqRQ/wB6OViPoTyKi/Z9OoJ8FdZl0u8jtJItUndnaDzGwLeI/LkgA5xyQw9jXteqz3UegvLaGQTbULPDH5kiKSN7KmDuYLkgYOSOh6HN0FK7uYSrOMrWPGo/C2qRQtEmk6jhs7iYpSx/4Eef1rk/iF4bvdL+H2qTyafqEMf7re84lKjMyf3uBzXvmm6neXen6raWU99dXUFv5ltPfWi28rs4cKChVBwyHkooxjr1PA/Fue7HwV8SwapLq32hltXSLU1tc7RcxAshtxg8kAgnI44GeRYdJ3uJVm9LHybRRRWh0BRRRQAV6D4DhaXw/OAjEfaW5XP91e4rz6vSvh2XPhyWONzGXvHywAJACJ0zxVRw6xD5G7GtLMpZZL6xGKl0s9tTeFq6x7BFJj3BJ/OkS1dFIWOTnqTkn8zWipleB083DoxUyBckj1x0zj8M9u1MtZJJYpQspYq2EeVMN0B+ZRj19uMfU6/2LT253+B2f6911r7CGmnXb7jlvFlqYfCt63luM+XlnyT99e5rzOvWfF7O3gW/81t7B1UnGM4mAryas5YVYZ8qd766nJVzaWay9tKCjy+7Zbd/1CiiioMQooooA9p+EElg3ge7gvrlIT/aDsP3/lOP3cfIIII7jj3r0OC/0u3hWKK+tgi9M3AJPqSSck+5rw7wVv8A+Efn8tgp+0NkkZ/hWukaQpAG4zgdfWvtcDSg8NGT7f5ntUeF6GLpKvOpJXV9lY9M+2aR9kFsbu0MIUJsMynj864/4inS4vhzqy2V1HLNJ5IJa6MzsBMhxlmJwOTjp1rAjlVUdnlZtoy25duPwx0rF8ST+d4ZvvnVv9WQFIOPnWqxVOkqMu/K7bdmTU4YwtCHtFWbdm0tPs662fkee0UUV8QeOFFFFABXR+HrS6nsJHt7aWVfNIJSMsM4HFc5XpPw8LHw5LGjmMveP8wAJGETpmt8Pho4qfs5O3odGHxLws/aJX9TN/szUM5+w3Of+uLf4Uf2ZqG7P2G4z/1xb/Cu9M7RWzl2BZG2b2GAemCfzogZnify53kk/wCmse3b+GAcf5zXo/2DRvZVH36Hof27Pf2aPNNasbyLSppJ7SaNF25ZoioHzD2rlq9W8YF/+ER1JTK0yL5Y3sACG8xcjgCvKa4MRhI4SShFt3V9fu/Q4MRinipqbilZW0+/9QooormOYKKKKAOw8JWs8+kytDBLIvnkZRSedq+lbn9m3e3b9kuMf9c2pfh35v8AwiN0YJBGRduSSu7jy06e/wCf0rtDve3Gx9jED5tucfhT+tOHu2PrsHilGhGLgnp95xX9m3fP+hznIwcxsazPEVlcQ6BcySW8yKNuWdDgfOPWvQbSSSWOVVlZypwjzR4Ycd1GP6f1rC8ZGQ+BdREz72V0G7GP+Wq9qbxTfu2Kr41ToSSglo/lozyKiiipPjwooooAK9m+EVib3wVdKY5WX+0H+aMspB8uPoy8ivGa9z+Dpul+GepPZXCW7pfysWaLecCGPpzgH3II9q48ZJxpXXdHNiVeFkdpDp8kEQjit5Qq+oYk+5J5J96QadItt5CwTLGF2DaGBA+vX8a6CUXElmPs0scUrAHfJGXA9eAR/OorB7ifRYHMwNw8I/eyJkFsdSox+Qx+FeF7eVrnk20uea/EPSRYfDzVXjjuVB8rd5ssjjmZOfmJGc14RX0J8R7iU/DvxBbPd3F0kS253XMKxOGNwoOAFXK8cHGOuGPQfPde5gpSlTfN3/RHq4VNQd+/6IKKKK7TqCiiigD234OPoT+CZk1q/htpodTklhBvTbuuYo13DDA+o/OvSU1LwzHYtaJrlsI3bczf2ofMJznPmb936182+Hf+QdJ/11P8hWtXm1cvVWbk5s7qeOdOKjyrQ96tr7wra2kltHrFnJBIMNHPqXmjHoN7nH4VyPxLufD6/DPWY9N1O3ubqYQDm++0SMBMhwCzFsDk4HHU15nVDWv+QPP/AMB/9CFKGWqE1Pnb1v8AcOWPcouPIjlKKKK9M4AooooAK+hPgSNLuPhrfWmq3ggDarI2xbxrdmHkxDkqykjrx0r57r034d+b/wAIjdGCQRkXbkkru48tOnv+f0rKqrxOjD0/aT5T6JR9ATTmsf7TjeFjnMmos7qexDlywxgYweO1SWV3omnwtHb6nCQzbmaa+MrE/wC87E/rXkx3vbjY+xiB823OPwqC0kkljlVZWcqcI80eGHHdRj+n9a5eR66nf9RhornW/GC90w/CDW4LK8tneR4n2JOGZibhGJ659a+WK9d8ZGQ+BdREz72V0G7GP+Wq9q8irpoq0ThxFJUpJIKKKK2OYKKKKAPpP9nzSodX+FuoW90Lgxf2vLkQTyRZ/cxDBKEEjnoeK9Vm8MWVxpqWE8d5JBHKsyF7ycurg5BD7t3B5AzgV5Z8ATfp8GtYk0y7jtJI9UndnaDzGwLeI/LkgA5xyQw9jXs2pzXSaC0toZBNtUs8Ue91Ukb2VcHcwXJAwckdD0Pn1MVKE3FLqeRWwfPU5uZq7Mw+F7BtMurCWG6mt7v/AF4muppGfpxvZiwHHQGuF+MWh2+l/B/xBNALtndbZWa5upZ8AXMeAPMY469q77Q9RuLxb2ziuruaWFFeG61Ky8lzv3AbowIyQCh/hTI/76Pnvxbu7hvhT4rspL+7vo4EtGL3tssEiubpQQoCpuT5eG24znDNyFIYmbnytE08HyyUud6NfofKtFFFegeyFFFFABX0B8DrJtQ+Gl/brdz2qvqcgdoAhLKYYwR86sMc9ua+f6KqLszGtTdSPKnY+0UsZ008239p3RkzxclYvMUemNm3/wAdptjpQs7BrOa7nvYWXYFuFj4XGMfIq5H1zXxhRWntb9Di+oP+b8D6Y+K2m/Y/hXrMj3lxdbVgSITbMRL58fA2qCeg5bJ469c/M9FFRKXM7nZQpeyjy3uFFFFQbhRRRQB9Qfs5aa+q/CDU7Rb+5sVk1iUO9sIyzKYIQV+dGGOewB969mi0y5i0lrP+2b5pSflvGSDzUHHAAj2dscqetfnzRVKVjnlR5ne5+g1vo8cFlPC11dTTXHM128m2VzjAOVAC47BQB7cnPnHxs0c2XwX8RXNzqF5qNyyW0YlujGNifaojtVY1VRk8k4yeMnAGPkCinzCjQs73CiiioOkKKKKACvTPh1F5vhmfDtGy3jEOuMj5E9QRXmdFbUansp81rnPiaPt6fJex719nxD5aySKc58wEbifX0/DGKEt9iP8AvpGd+shxn27Y/SvBaK7fr6/l/H/gHmf2U/5/w/4J6z4xtzb+C9Q/fySAlDhwvBMqk9AK8moorjr1fayTSsejhqDoQcW73d9rBRRRWB1BRRRQB3nghC+gTAOyf6S3K4/ur610Yh/cmN2Zwe5wCPyryCivew+bxo0lTdO9lbf9LH0uFzyNClGm6V7K3xfpax7AibMkuzk92x/SsbxVHt8N3z72O7y+DjA+da84oq62dKrSdP2drpr4u6t21Lr5/GrRlS9la6a+Lumu2u4UUUV88fLhRRRQAV6X8OovN8Mz4dkYXjEMuMj5E9QRXmlFdWFrrD1Odq/4EyV1Y94+zqYDExLZ5LHqT6/Wmm1LQujXExZxgyZAYD2wMfpXhNFeq83i/wDl3+P/AACPZ+Z6x4xt/s/gy+HnSOuIwFYKAo8xegAFeT0UV5eLxCxE1JK1lbe/f/MuMeVBRRRXIUFFFFAHp/w4hM/hS5QSvFm8bJQDJGxOOQa7Bbdhb+UbiVjnh+Aw/IAfmK8AorJ07u9z0KeMUIqPLt5nv8dv5av++keRxgyNjI9OMY/Sud8aWzQeC9RJuJZQ3lnDhevmrzwBXkVFCp2d7jnjVKDjy/iFFFFannBRRRQAV7v8FrNr74dX0C3U1sG1KQM0IQlgYowR8ykd/rXhFFYYij7aHLexnUhzxtex9hJZTJYG3/tG5L54uCsW9R6Y2bf/AB2mWmmG1sWtWvrqdCu1WcorRj2KKv65r5Aorzv7Nf8AP+H/AATl+qP+b8D6O+KOnm3+GWszTXdxdylYUDz7BtXz4zgBFUde+M1840UV34ei6EHFu/4HTSp+zja9wooorpNQooooA6Tw7/yDpP8Arqf5CtauFop3FY7qqGtf8gef/gP/AKEK5Sii4WCiiikMKKKKACvT/hxCZ/ClygleLN42SgGSNiccg15hRUyjzKxtRq+ynzWue/rbsLfyjcSsc8PwGH5AD8xRHb+Wr/vpHkcYMjYyPTjGP0rwCis/ZeZ3fX1/J+J6740tmg8F6iTcSyhvLOHC9fNXngCvIqKK0jHlVjir1VVlzJW/EKKKKowCiiigD6a/Z3059U+Emp2q31zZK+ryh3txGWZTBECvzowxz2GfevYotNuItKaz/ti9aUn5btkh81BxwAI9nbHKnrXwHRXDUwjnJvm38jKVO7vc+/LfSI4LOeF7m6mmuP8AW3TybZXOMA5UALjsFAHtyc+d/GnSDZ/BvxBc3OoXeoXBS3jWS58sbF+0xEgCNFXkgc4zwOeK+R6KUMI4yUub8BKlZ7hRRRXebBRRRQB//9k=)

1. Aggiungere all’inizio del valore stampato:
   1. Uno ‘0’ se il valore della cella è maggiore di 10 e minore di 100
   2. Due ‘0’ se il valore della cella è minore di 10
2. Colorare il testo della matrice seguendo i colori utilizzati dall’[Immagine 1.1](#_Colori_nella_console)

# Fonti

* [Stack Overflow 1](https://stackoverflow.com/questions/4842424/list-of-ansi-color-escape-sequences#:~:text=to%20the%20show.-,8%2Dbit%20(256)%20colours,-Technology%20advanced%2C%20and)
* [Stack Overflow 2](https://stackoverflow.com/questions/7414983/how-to-use-the-ansi-escape-code-for-outputting-colored-text-on-console#:~:text=Add%20a%20comment-,0,This%20will%20work%20in%20any%20OS%20that%20support%20ANSI%20escape%20sequence,-%23include%20%3Ciostream)
* [Wikipedia ANSI 8 bit](https://en.wikipedia.org/wiki/ANSI_escape_code#:~:text=255%2C%E2%80%AF255%2C%E2%80%AF255-,8%2Dbit,-%5Bedit%5D)
* [Article](https://medium.com/@vitorcosta.matias/print-coloured-texts-in-console-a0db6f589138)
* [Solution](https://onlinegdb.com/_7Nu4xuFJ)

Consideriamo la matrice generata come un insieme di pixel ad [8bpp](https://it.wikipedia.org/wiki/Pixel#:~:text=un%20colore%20specifico.-,Bit%20per%20pixel,-Lo%20stesso%20argomento). Quindi, ogni valore salvato in questa tabella rappresenta un pixel con un valore che va da 0 a 255 secondo la seguente codifica:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | 7° | 6° | 5° | 4° | 3° | 2° | 1° | 0° |
| Colore | R | R | R | G | G | G | B | B |

Dove la riga Bit indica il bit preso in considerazione e la colonna Colore il colore corrispondente.

Nel caso del valore 212 abbiamo quindi che:

|  |  |
| --- | --- |
| Decimale | Binario |
| 212 | 11010100 |

Quindi secondo la tabella descritta precedentemente:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bit | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| Colore | R | R | R | G | G | G | B | B |

Avendo quindi che il rosso è presente nella quantità 6, il verde nella quantità 5 e il blu nella quantità 0.

Notare che:

* il rosso può assumere valori compresi nel range [0, 7]
* il verde può assumere valori compresi nel range [0, 7]
* il blu può assumere valori compresi nel range [0, 3]

A fianco si può vedere una tabella che riassume tutte le combinazioni possibili.