Personally controlled Cameras

# Abstract

In the modern world there are Many security cameras, and in recent years these have been developed into an almost household item that people use to check up on their house, providing comforting feeling in the fact that their home is safe and secure. But with these systems how much do we really know about them and is out trust in these devices misplaced? especially when some systems even have control of your own door. This is where my project comes into play, this open-source approach to camera systems offers a new option to people wishing to secure their own home. The report will outline the needs of such a system as well as its benefits and drawbacks.

Contents

[Chapter 1 Abstract 1](#_Toc99199980)

[Chapter 3 Abbreviations 3](#_Toc99199981)

[Chapter 4 Chapter 1. Introduction 3](#_Toc99199982)

[Executive summary 3](#_Toc99199983)

[Aims 3](#_Toc99199984)

[Project overview 4](#_Toc99199985)

[Website 4](#_Toc99199986)

[Discord 4](#_Toc99199987)

[Pi cam 5](#_Toc99199988)

[Chapter 5 Chapter 2. Method 5](#_Toc99199989)

[Risks 5](#_Toc99199990)

[Time 5](#_Toc99199991)

[IoT security 5](#_Toc99199992)

[Methodology 5](#_Toc99199993)

[Project timeline 6](#_Toc99199994)

[Ethical issues 6](#_Toc99199995)

[Versioning strategy 6](#_Toc99199996)

[Chapter 6 Chapter 3. Research 6](#_Toc99199997)

[Selection of camera Hardware 6](#_Toc99199998)

[Cost 7](#_Toc99199999)

[Ease of use 7](#_Toc99200000)

[Support 7](#_Toc99200001)

[Accessibility 7](#_Toc99200002)

[Lifespan 7](#_Toc99200003)

[Pugh matrix 7](#_Toc99200004)

[Summary 7](#_Toc99200005)

[Case Study Ring 6](#_Toc99200006)

[Security 7](#_Toc99200007)

[WIFI Security 7](#_Toc99200008)

[Chapter 7 Chapter 4. Requirements 8](#_Toc99200009)

[Deriving Requirements 8](#_Toc99200010)

[Requirements Description 8](#_Toc99200011)

[Website/ discord (user interface) 8](#_Toc99200012)

[Use case 8](#_Toc99200013)

[User story’s 9](#_Toc99200014)

[User story’s 10](#_Toc99200015)

[Chapter 8 Chapter 5. Design 10](#_Toc99200016)

[What Does the project do? 11](#_Toc99200017)

[Software choices 11](#_Toc99200018)

[Python Discord bot 11](#_Toc99200019)

[Website 11](#_Toc99200020)

[Cameras 11](#_Toc99200021)

[General Design 11](#_Toc99200022)

[Authentication System 11](#_Toc99200023)

[Cameras 12](#_Toc99200024)

[Facial detection 12](#_Toc99200025)

[Movement detection 13](#_Toc99200026)

[Person detection 13](#_Toc99200027)

[Person following 13](#_Toc99200028)

[Car following mode 13](#_Toc99200029)

[Phone/email alerts 13](#_Toc99200030)

[System Diagram 14](#_Toc99200031)

[User Diagram 14](#_Toc99200032)

[Page Wireframes 15](#_Toc99200033)

[Home page 15](#_Toc99200034)

[Log in screen 15](#_Toc99200035)

[View Cameras screen 15](#_Toc99200036)

[Add camera screen 16](#_Toc99200037)

[Sequence Diagrams 17](#_Toc99200038)

[Core Code 18](#_Toc99200039)

[Transferring image 18](#_Toc99200040)

[Face detection 18](#_Toc99200041)

[Movement Detection 18](#_Toc99200042)

[Chapter 9 Chapter 6. Results 18](#_Toc99200043)

[Testing System Test 18](#_Toc99200044)

[Unit tests 18](#_Toc99200045)

[Chapter 10 Chapter 7. Conclusion and next steps 19](#_Toc99200046)

[Chapter 11 References 19](#_Toc99200047)

[Chapter 12 Appendices 19](#_Toc99200048)

* Glossary

# Abbreviations

|  |  |  |
| --- | --- | --- |
| Term | Meaning | Explanation |
| LAN | Local area network | Means that the network is limited to a local geographical range |
| API | application programming interface | A way for computer system to communicate with each other |

# Introduction

## Executive summary

The project is aimed at securing people’s houses, not only form intruders but data invasion from larger companies that wish to invade on out private lives to sell out data to the highest bidder. The system can be running over a local area network (LAN) or set up on the internet depending on the users’ requirements and wants. Giving full control to the users without compromising on the quality of the project.

### Aims

The main aims of this project are to allow people, even those without huge technical skill to be able to set up their own camera system with easy to source parts. Along with protecting their private lives and allowing them to fine tune their system however they wish as is the nature of an open-source project (*see Figure 1.1*).

Figure 4‑1: Overview of project Aims

## Project overview

Be it in the car or house the project will allow users to set up their own custom cameras quickly and easily and have no monitoring or data harvesting performed on them in their own house.

This project will consist of a few devices and software programs:

### Website

The website is the hub for all these cameras and can be streamed too to show all the cameras you want on your own network. This website can easily be turned into either a locally or globally access hub for the cameras, from the website you will also be able to control the settings of each camera, do you wish to turn on settings such as:

* facial detection
* movement detection
* person detection
* person following
* phone/email alerts

Each setting turned on may lower the quality of the stream from the camera, but this customization will easily allow users to set up their home system the way they would want it. Whilst also offering this data as an easy application programming interface (API) that the users can use to control any of their own devices or can be used to connect to any smart device if they bridge the connection.

### Discord

Websites can be tricky things to set up and have constantly running and will constantly cost money, so what alternatives are out there after looking through a few of the options like Facebook or Instagram I decided that discord would be most appropriate as it allows you to add both bots to the server, but also webhooks that can be used to send messages without any hassle. Discord allows users to set up servers stream their cameras and more which is ideal for a camera system.

This set up is perfect for a cam system to stream and update the users to events that are happening such as a person being detected. This could be using pings that could send notifications to the user’s phone too.

### Pi cam

The Pi camera is a small camera that will be powered through a wire in the house and will be able to feed images back to the webpage, on top of this they can come with a movement module that can be used to track people or faces as they walk around the house. This will be a lot more off putting for thieves.

# Method

* identify suitable tools and methodology (don’t just say agile)
* identify risks
* include ethics if needed.
* version/document control strategy

## Risks

There are quite a few risks associated with this project:

### Time

This project has not got a clear indicated end as there are many additions to the base camera system that can be added, solve this I will clearly indicate in this document a cut-off points and talk about what additions I could have added and why I prioritised certain ones over the others.

### IoT security

Internet of things security, if you type this in online you will see a bombardment of articles pointing out that many devices have security issues, and they can be used to collect data on the user. As this is an open-source project this will be a considerable point as if there is a flaw you cannot hide it as they could look up the code itself and find any issues within.

## Methodology

For this I Decided to use Agile scrums and have sprints each 2 weeks at the start of the 2 weeks I would create tickets for each of the parts I am doing giving them a time estimate to make sure its achievable within the two weeks then would go through my tickets and do them one by one. The reason behind using this methodology is it was how my industry experience worked. And I have found it so that it is flexible enough to work around other modules and strictly controls me into making sure the project is completed on time for the due date.

To manage this methodology, I will be using Jira as this will allow me to clearly see what tickets I have, how much time is left on each one and at the end of the sprints allow me to have graphs and diagrams explaining my progress and how much is left, and this will work into the project management side of things.

## Architecture

Due to the project needing to be secure I will be implementing a security architecture for this project with the Architectural Documents contents being embedded within this report covering topics such as:

* Change strategy
* Buy vs build
* Major Data structures
* Key Algorithms
* Error processing
* Fault tolerance

Within this I will be following standards such as:

* Being stingy with privileges
* modularize thoroughly
* don’t rely on obfuscation

that are outlines the book Secure coding(Graff Mark and van wyk Kenneth, 2003) that covers the concepts of producing a secure system.

### Project timeline

## Ethical issues

The object detection has always been an ethical concern, especially the facial recognition. As this system is open source and won't be operated by any company the data from this will safely and securely be in control of the user. Meaning their face, I'd will not be used to track them on other devices of a similar sort.

Another main ethical issue presiding in the Camera market, privacy and there are many concerns about how cameras are used, ranging from countries using them to monitor and punish its Populus down to petty squabbles between neighbours when cameras overlap properties boundaries. In this section we will briefly look into the examples and see what can be implemented in the camera system to make it more ethical.  
  
Camera systems should get consent for all the involved parties when talking about outdoor cameras, neighbours that could be caught by the camera system should be made aware and is the system covers their property consent is needed (Unterfingher Vladimir, 2019) There is a case where a ring user got sued £100,000 for breach of privacy (Wright Jack, 2021) , This is due to invading on a neighbour’s privacy. This case has made a lot of ring users more cautious of the use of their ring doorbells, and ring responded by telling people to use the privacy blocker that locks parts of the camera feed to make sure that the privacy of neighbours is respected.

The things I want to implement is firstly a privacy page that will inform the user how to not have the same fate by talking with their neighbours and having an agreement over email so its traceable. Also have it so that you can block areas of the camera if it is invasive. These areas will be saved onto the device and will require conformation with a password to make any changes. So, any information sent out will also have this blocker in place.

## Versioning strategy

For this I will be using bit bucket a git-based software, as it includes a nice user interface and git works well for the versioning and have multiple versions for the different devices I will be using. For documents I will also be using confluence in a controlled document as this will allow me to view all changes and see when I have made them. Whilst also being able to have clear publishing and drafting documents.

## My role

My role in this project is making the initial system for people to be able to build upon, all the work written in this document will be produced by me. Credit will be given when code from similar projects is used. Although long term it will be opensource for others to contribute too during the development of this project it will remain private, with only me

developing on it.

# Research

* primary research - data you collected yourself
* secondary research - relevant literature/white-papers/standards
* informal sources - user stories (epics)
* case-studies
* technology selection where required - pugh matrix

## Selection of camera Hardware

### Cost

The Cost is a key factor is making this project a success as it must at least be competitive with fully made systems already out there such as ring. Therefore, it has such a high weighting and rightfully so as this will be the main factor if people to install this system.

### Ease of use

The project must be easy to put together and run. Otherwise less technical people would not be able to install the system in their own house, this will cover things such as:

* The options available on each device
* How easy it is to set up in the first place?
* How much specialist software must be installed to make it work?
* How much technical knowledge is needed?

### Support

The support available is still important for the devices, as anyone wishing to run multiple programs or modify the hardware set up in anyway might struggle is no other examples or support exists. And support in adding security to the device.

### Accessibility

Accessibility is referring to how easy it is to get the hardware to make this work. In a local sense of the UK but also in a global market how available is the products.

### Lifespan

How long will the line of products exist and work with the existing code.

### Pugh matrix

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Measurables | weight | Raspberry pi | Arduino | Esp32 | Old mobiles | IP cams |
| Cost | 20% | 3 | 4 | 5 | 2 | 3 |
| Ease of use | 25% | 4 | 2 | 2 | 3 | 4 |
| Support | 15% | 5 | 5 | 4 | 2 | 2 |
| Accessibility | 25% | 3 | 4 | 3 | 3 | 5 |
| Lifespan | 15% | 5 | 4 | 3 | 2 | 3 |
| Total | 100% | 3.85 | 3.65 | 3.3 | 2.5 | 3.6 |

### 

### Summary

From this we can see that in first place is the raspberry pi, mainly due to ease of use and lifespan as they are basically smaller computer the code on them can work on a variety of devices and long-term support is pretty much guaranteed, with many types of Pi available people can pick one that is suitable to their skill level.  
  
The pricing of raspberry pi computers would also be considerably cheaper than a lot of security systems out there an American company that monitors the installation costs of home security installation, and the national average for America is $1,326. And the low end to high end cost is $135 - $3500 (HomeAdvisor, 2022) this shows that even the cheapest and worse solutions come at a high cost. Making these hardware components viable.

In second place the Arduino these don’t come with inbuilt cameras and that where is lost out on as long term there’s no guarantee the camera would connect the same way, and the third being general Ip cams are a great way but lack mostly due to the fact its hard to modify or add security too form this I can say I will be supporting raspberry pi for my secure cameras and Ip cams as a general camera in less key places.

## Case Study Ring

Ring is one of the biggest “smart” camera systems that has hit the consumer market in recent years. Their mission statement in simple “Make neighbourhoods Safer” (Ring, n.d.) without going into detail about weather this is still their goal after being bought out from amazon, they still make a system that has a similar goal but not one I would consider a competitor for this personally controlled camera. As they store most their content remotely on the cloud this makes their users wary and things like facial recognition would get major push back as they do not trust a large company such as amazon to not record/sell this information. This is shown by the clear stance ring have on facial recognition (Ring, 2020).

Unlike ring the personally controlled camera system is ran and maintained by the home/building owner. Meaning that they can put full trust in the system as nothing leaves their own control, thus allowing them to use the abilities of modern technology to its best effect. This trust is majorly important especially considering the allegation of hacks and data breaches ring has had to deal with Some of which could be argued to be the customers fault for not using things such as two factor authentication (Dickson Ben, 2020) but amazon/ring still has responsibility to make sure people are taking appropriate steps to ensure their own security and privacy.

In conclusion I think that ring makes a good example for the security system as they show the flaws in security, and the trust that comes with home security. Although not being a direct competitor with the market personally control cameras aim to operate for.

## Security

The security of the system is vital as this system will be recording people’s personal homes and could hold people’s private information if it got into the wrong hands. The IOT (information of things) market that includes things like cameras, speakers, and smart plugs has been lacking in security with many breaches . To deal with this the government is brining out new guidelines and rules that are aimed at improving the security on these devices such as getting rid of default usernames and passwords. Some could argue this legislation is still lacking and just hitting the bare minimum of what should be expected in modern smart devices.

### WIFI Security

Due to the nature of this project using the local WIFI network it is important to explore how secure peoples private WIFI networks are. Firstly it is important to know that you can read WIFI signals even if your computer is not the intended target this means any signals send out that are not encrypted in some form can be read but luckily with the widespread use of secure protocols such as HTTPS this is mostly not an issue what is an issue is that the handshake devices make when first connecting can be read meaning that people can connect to the network and attempt to access devices on the network. This makes things like IP cameras that broadcast without security on their addresses meaning they are insecure and can be abused, The Pi cam aims to fix this by only transferring data directly to the host server/machine on the network.

<https://www.gov.uk/government/publications/code-of-practice-for-consumer-iot-security/code-of-practice-for-consumer-iot-security>

government IOT code of practise, this will be a key guide for me as I will need to follow this

# Requirements

* Capture user-stories / use-cases (and use-case diagrams)
* Derive (suitably numbered e.g., FR1, FR2,) functional requirements (prioritised).
* Use Quality assurance (ISO/IEC 9126 Software Engineering: Product quality) to develop Non-Functional Requirements  
   e.g., numbered NFRs (e.g., NFR1, NFR2, ...) organised by quality:

1. Usability  
 2. Functionality  
 3. Reliability  
 4. Portability  
 5. Efficiency  
 6. Maintainability

## Deriving Requirements

To derive the projects the following methodology will be used:

Figure 7‑1: Requirement deriving methodology

Along with this method of deriving Requirements will be derived using business rules and other key requirements that become obvious as , although well written use cases describe the requirements, they are not all the requirements. This is due to the fact they do not cover things like data formats business rules or complex formulae (Cockburn Alister, 2000) .

## Requirements Description

The aim for the project is to easily be set up, maintenance of hardware should be easy and keeping things running, and the software will have an easy interface allowing people to make updates/changes easily.

## Website/ discord (user interface)

### Use case

In the use case the admin, viewer and monitor can be the same person but describes the different personas of the persons usage of the system.

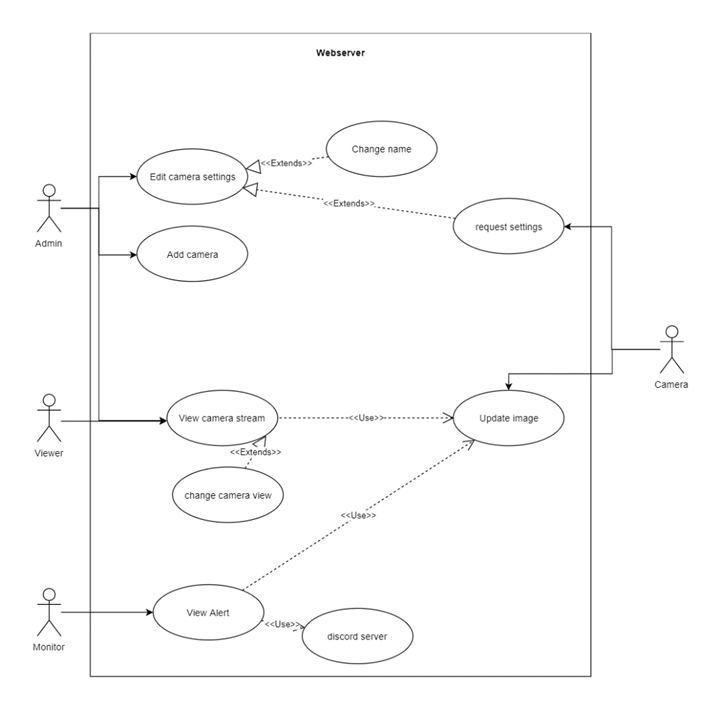


Figure 7‑2: Use case Diagram for Webpage

### User story’s

* As a Monitor I want to receive alerts so that when something suspicious I detected I can check what’s happening and make sure everything is ok
* As an admin I want to be able to change the settings on a camera so that it will only trigger alerts when I need it do
* As a viewer I want to be able to see the cameras and check that nothing is happening on any of the cameras
* As an Admin I would like to add a new camera to the system and have it show up on the website

### 

|  |  |
| --- | --- |
| Requirement ID | Description |
| FR.UI.1 | Will Allow users to view video streams from connected cameras |
| FR.UI.2 | Will be able to Switch between cameras on the same system |
| FR.UI.3 | Should Recognise the type of connected device |
| FR.UI.4 | Will be able Control the camera settings of each device |
| FR.UI.5 | If enabled Should Alert the user if there is a detection |
| NFR.UI.1 | Camera video feed should seem smooth |
| NFR.UI.2 | Should be easy to navigate |
| NFR.UI.3 | Settings should be easy to edit |

Home cam  
 Use case

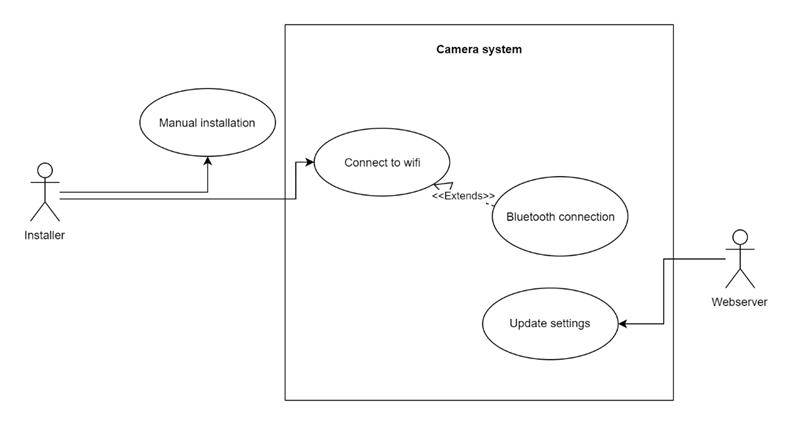


Figure 7‑3: Use Case Diagram for installation

### User story’s

* As an installer I want to connect my camera to my internet so that I can see it on the website
* As an installer I want to be able to set up the camera with clear steps
* As the admin of the webserver, I want to update the cameras settings

## 

|  |  |
| --- | --- |
| Requirement ID | Description |
| FR.HC.1 | Will Capture images from camera and then after processing send to UI |
| FR.HC.2 | Will be able to be powered by a 5v cable by either usb-c or micro usb cables |
| FR.HC.3 | Will take configuration file or input to edit camera settings |
| NFC.HC.1 | should take minimal power to run |

* For a design process: mood board & persona

# Design

**\*\*\* Don't forget to tell us what your project does \*\*\***

* Software architecture
* Relevant UML diagrams (e.g., component diagrams, sequence diagrams)
* Code snippets to highlight core algorithms, or pseudo-code.
* Wireframes for screen design
* UX design map

## What Does the project do?

Simply put it is an open-source project that is meant to allow users to set up their own cameras with a full range of advanced modern options such as facial detection. Following this as an open-source project users can also edit the source code to add new functionality at free will, this will mean that code comments will have to be clear and that there will be extensive tests written both unit tests and system tests to make sure that anything added will not break other parts of the code. This will bring the plug in and play to the open-source market and will also follow the UK governments IOT guidance, meaning that any company can see the security measures in place and hopefully follow suit increasing the standards of IOT security.

## Software choices

### Python Discord bot

The discord bot will be written in python this can be added to the cameras themselves they will need to be given a token id for their bot, and each camera will have to have their own bot in the server for full operation.

### Website

For the website I will be writing it in pythons Django. This is due to it coming with with fully connected database and as its written in python, meaning the server can also manage the image and run detections on the serve, this is due to the hardware limitations on the cameras. The cameras will only be able to run one or two options before their streams are slowed significantly, so to compensate there will also be APIs for managing this on the website. And users can choose to assign tasks to the server instead of the cameras.

#### Django

Django is a good choice as it has access to all the python libraries and comes with a database management system installed with an authentication table already made. Most communication will happen through API endpoints and use json for the communication.

## Cameras

### Pi cameras

The cameras will be written in python as python has some of the best libraries for image detection and management and will be hosted on a Linux system either Raspbian or a ubuntu LTS version. And the programs will be run as a service so that it automatically starts on power up, and if it closes for any reason will automatically restart.

As installation of the cameras manually would be difficult, I will make a sim image file that will easily allow installation onto a new sim card and then it’s just plug in and play. Power will be needed the options for this are either a battery pack or any micro-USB cable that can be plugged in anywhere.

#### Security

The pi cameras unlike IP cameras , will not host a server itself instead directly posting to the target destination using HTTPS this means that they will be secured in the sense that any HTTPS communication is. Meaning people who are listening to the network traffic can’t see the communications as they are all encrypted.

### IP cameras

Ip cameras are cheap easily available and already have all needed software preinstalled. These cameras are added to the system as it is very easy to turn any device into an IP camera and use it. The reason I would not consider this to be the main camera is that they usually don’t have any options such as doing facial recognition and that they are usually not secure as anyone who can access to the network can access them and watch the live streams, making them a bad decision for anywhere on the properties that could be considered private, there are some cameras out there that have extra authentication (Lee et al., 2019) but connecting this to the project would mean working with each brand of Ip cam separately.

## General Design

### Authentication System

An authentication system will be needed on the server that manages the cameras this is to stop people who have access to the internet being able to see all the cameras that could be recording private areas. The authentication system that I will be using is Django’s built-in security system that uses a cookie to authenticate a devices access after logging into an account.

#### Forgot password

In the case that a user forgot their password there must be something in place to reset their password for this we will be using “email” but without paying for a email service the emails will be stored in local memory although this can be changed in the Django settings if someone has a server to connect it too.

### Cameras

For the cameras apart from streaming the video in a few ways possible they still have some CPU available for use to compete with the likes of ring etc I looked at a few of the options that could be achieved within a decent time scale these options include:

### Facial detection

This will detect a person’s face and draw a box around it shown in figure 1 below:

A picture containing wall, person, indoor, purple

Description automatically generated

Figure 8‑1: Example of facial detection being used

This can be used to do facial recognition for a person or just be used to alert peoples phones that someone has entered the property.

#### How does it work?

The facial detection will be done by using a haarcasade xml file, this is compared to the image to find similar patterns and if one is detected the object in this case a face would then be returned as a detected object.

### Movement detection

movement detection, this will take a image use it as a reference frame then take another photo what this will do is compare the two and see what pixels have dramatically changed colour by first changing them to greyscale for easy comparisons then you look for changes bigger than a certain size this allows you to clearly see any movement and you can also draw a box around the area this can also be passed in an alert but can also save a video of the full length of time that the movement was detected.

Grey scale example image

A picture containing text, wall, indoor, bed

Description automatically generated

Figure 8‑2: Example of grey scaling an image

Detection example image

A picture containing text, indoor

Description automatically generated

Figure 8‑3: Example of a movement detection

### Person detection

This is the same as facial detection using a haarcascade xml file to look for patterns in the image, the difference with this one is that it looks for people’s bodies from a distance instead of a face

Example image here

### Person following

The camera will have a few mounting options some of which will have servos installed inside them these servos can be controlled to follow certain movement or detections, this would allow less cameras to cover more ground and allow for a greater focus on suspicious behaviour, this would also scare a lot of people as they would feel like someone is watching them directly regardless is someone is watching the stream or not.

### Phone/email alerts

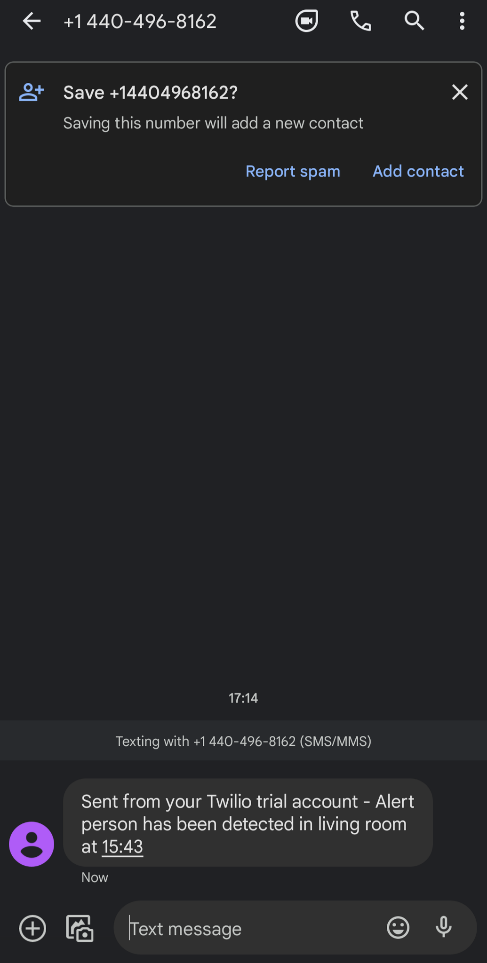
For users it is imperative they get notifications when something is up in their property, these notifications will be chosen by the user in the settings ranging from being notified anytime there is movement from only when faces are detected, this will be chosen individually for each camera as some cameras will be facing into your back yard where you wouldn’t expect to see someone, as to your front where people will constantly be walking past. It will also allow the user to create a time schedule or a mute if they are at home and they will trigger them.

Figure 8‑4: Example of SMS notification using Twilio API

## System Diagram

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGNhbGx1bSB0ZXJyaWxsAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDAAAJKSAAIAAAADNDAAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjE6MTA6MTMgMTk6MzI6MTQAMjAyMToxMDoxMyAxOTozMjoxNAAAAGMAYQBsAGwAdQBtACAAdABlAHIAcgBpAGwAbAAAAP/hCyFodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIxLTEwLTEzVDE5OjMyOjE0LjM5NjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5jYWxsdW0gdGVycmlsbDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAEbAngDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6NdAFHLdR/EfWneWPVv8Avo0SfdH+8P506gCNkG5OW6/3j6GneWPVv++jQ33k/wB7+hp1AELIPtSct9xv4j6rUnlj1b/vo01v+PpP9xv5rUlAEYQeYeW6D+I+9O8serf99Ggf61v90f1p1AEaoNz8t1/vH0FO8serf99GhfvP/vf0FOoAjRAVPLdT/EfWneWPVv8Avo0R/dP+8f506gCONAY15boP4jTbhALWXlvuH+I+lSR/6pP90U25/wCPWX/cP8qAHeWPVv8Avo010AUct1H8R9akpsn3R/vD+dAB5Y9W/wC+jTXQBRy3UfxH1qSmyfdH+8P50AHlj1b/AL6NNZBuTluv94+hqSmt95P97+hoAPLHq3/fRppQeYOW6H+I+1SU0/61f90/0oAPLHq3/fRqNUH2p+W+4v8AEfVqmqNf+Pp/9xf5tQA7yx6t/wB9Gmqg3Py3X+8fQVJTV+8/+9/QUAHlj1b/AL6NNRAVPLdT/EfWpKbH90/7x/nQAeWPVv8Avo02NAY15boP4jUlNj/1Sf7ooAbIgEbct0P8Rp3lj1b/AL6NEn+qf/dNOoAhnQCMct99f4j/AHhUnlj1b/vo02f/AFY/30/9CFSUARsg3Jy3X+8fQ07yx6t/30aG+8n+9/Q06gCMoPMHLdD/ABH2p3lj1b/vo0H/AFq/7p/pTqAIwg8w8t0H8R96d5Y9W/76NA/1rf7o/rTqAI1Qbn5br/ePoKd5Y9W/76NC/ef/AHv6CnUAQwIDGeW++38R/vGpPLHq3/fRpsH+rP8Avv8A+hGpKAI40BjXlug/iNEiARty3Q/xGnR/6pP90USf6p/900AHlj1b/vo010AUct1H8R9akpsn3R/vD+dAB5Y9W/76NNZBuTluv94+hqSmt95P97+hoAPLHq3/AH0ajlQeZDy33/7x/umpqjl/1kP++f8A0E0AO8serf8AfRppQeYOW6H+I+1SU0/61f8AdP8ASgA8serf99GmhB5h5boP4j71JTR/rW/3R/WgA8serf8AfRpqoNz8t1/vH0FSU1fvP/vf0FAB5Y9W/wC+jTUQFTy3U/xH1qSmx/dP+8f50AHlj1b/AL6NR26A2sXLfcH8R9KmqO2/49Yv9wfyoAJEAjbluh/iNO8serf99GiT/VP/ALpp1AEboAo5bqP4j607yx6t/wB9GiT7o/3h/OnUARsg3Jy3X+8fQ07yx6t/30aG+8n+9/Q06gCMoPMHLdD/ABH2p3lj1b/vo0H/AFq/7p/pTqAIVQfan5b7i/xH1apPLHq3/fRpq/8AH0/+4v8ANqkoAjVBufluv94+gp3lj1b/AL6NC/ef/e/oKdQBGiAqeW6n+I+tO8serf8AfRoj+6f94/zp1AEcaAxry3QfxGiRAI25bof4jTo/9Un+6KJP9U/+6aADyx6t/wB9GinUUAZWvzS22mKtltjuLieK3jl2BvL3uFL4PBwCTjuQKYnhTRPLAudNt72TOWmvIxM7HABJLA9cdBgVPqUI1BbZLeaLdFdRTEFuoVsnGO+K0aAKtlplhpsbR6dY21ojHcywQqgJ9SAKiu9B0jUJ/Ov9KsrqXG3zJrZHbHpkir9FAGT/AMIn4d/6AGl/+Acf+FaUUEMEKQwRJHFGoVERQFUDgAAdBUlFAGU3hXw8zFm0HTCSckmzj5/SnQeGtCtp0mttF0+GWM7kkjtUVlPqCBxWnRQBBd2Npf25gvrWG5hJBMc0YdTj2PFUP+ET8O/9ADS//AOP/CtaigCnZaPpmms7adp1paFwA5ggVN31wOaS90bTNSZG1HTrS7ZBhTPAr7fpkcVdooAyf+ET8O/9ADS//AOP/CtC2srWytlt7O2ht4EztiijCquTk4A46k1NRQBmT+GtCuZ3mudF0+aWQ7nkktUZmPqSRzWffadFoMthc6Qi2tqbqOC5tUGInWRtoKr0Vg7qcjGRkHsR0dZ+tWr3mnxxxFQUuraYljgbUnR2/RTQBe8tP7i/lTXjQKMIvUdvej7TB/z2j/76FNe4hKjE0fUfxD1oAk8tP7i/lTWjTcnyL19PY0faYP8AntH/AN9CmtcQ7k/fR9f7w9DQBJ5af3F/KmmNPMHyL0Pb6UfaYP8AntH/AN9Cmm4h8wfvo+h/iHtQBJ5af3F/Ko1jT7U/yL9xe3u1O+0wf89o/wDvoVGLiH7S581MbF53D1NAE3lp/cX8qasabn+Revp7Cj7TB/z2j/76FNW4h3P++j6/3h6CgCTy0/uL+VNSNCpyi9T296PtMH/PaP8A76FNS4hCnM0fU/xD1oAk8tP7i/lTY40Ma5Reg7UfaYP+e0f/AH0KbHcQiNczR9B/EKAHSRoI2wi9D2p3lp/cX8qjkuITG2Jo+h/iFO+0wf8APaP/AL6FADZ40EYwi/fXt/tCpPLT+4v5VDNcQmMYlQ/OvRh/eFSfaYP+e0f/AH0KABo03J8i9fT2NO8tP7i/lUbXEO5P30fX+8PQ077TB/z2j/76FAAY08wfIvQ9vpTvLT+4v5VGbiHzB++j6H+Ie1O+0wf89o/++hQACNPMPyL0Hb607y0/uL+VRi4h8w/vo+g/iHvTvtMH/PaP/voUACxpuf5F6+nsKd5af3F/Ko1uIdz/AL6Pr/eHoKd9pg/57R/99CgBsEaGM5Rfvt2/2jUnlp/cX8qhhuIRGcyoPnbqw/vGpPtMH/PaP/voUAEcaGNcovQdqJI0EbYReh7U2O4hEa5mj6D+IUSXEJjbE0fQ/wAQoAk8tP7i/lTXjQKMIvUdvej7TB/z2j/76FNe4hKjE0fUfxD1oAk8tP7i/lTWjTcnyL19PY0faYP+e0f/AH0Ka1xDuT99H1/vD0NAEnlp/cX8qjljTzIfkX7/AKf7Jp32mD/ntH/30KjkuITJFiVDh+fmHHymgCby0/uL+VNMaeYPkXoe30o+0wf89o/++hTTcQ+YP30fQ/xD2oAk8tP7i/lTRGnmH5F6Dt9aPtMH/PaP/voU0XEPmH99H0H8Q96AJPLT+4v5U1Y03P8AIvX09hR9pg/57R/99CmrcQ7n/fR9f7w9BQBJ5af3F/KmpGhU5Rep7e9H2mD/AJ7R/wDfQpqXEIU5mj6n+IetAEnlp/cX8qjt40NrFlF+4O3tTvtMH/PaP/voVHb3EItogZUBCDILD0oAkkjQRthF6HtTvLT+4v5VHJcQmNsTR9D/ABCnfaYP+e0f/fQoAHjQKMIvUdveneWn9xfyqN7iEqMTR9R/EPWnfaYP+e0f/fQoAGjTcnyL19PY07y0/uL+VRtcQ7k/fR9f7w9DTvtMH/PaP/voUABjTzB8i9D2+lO8tP7i/lUZuIfMH76Pof4h7U77TB/z2j/76FADVjT7U/yL9xe3u1SeWn9xfyqEXEP2lz5qY2LzuHqak+0wf89o/wDvoUACxpuf5F6+nsKd5af3F/Ko1uIdz/vo+v8AeHoKd9pg/wCe0f8A30KABI0KnKL1Pb3p3lp/cX8qjS4hCnM0fU/xD1p32mD/AJ7R/wDfQoAI40Ma5Reg7USRoI2wi9D2psdxCI1zNH0H8QokuITG2Jo+h/iFAEnlp/cX8qKb9pg/57R/99CigCvqV8bGOBlQOZriOHk4xuYDNXKyNfcGGxAz/wAf8HVT/fFa9ABRRRQAVR1TV7TR4YnvGkLTyCKGKKMyPK5BOFUcngE/QGr1YniDSry9utL1DSzCbvTbhpViuHKRyq0bIylgrFThsg4PT3oAJfFmnJawzRpeXBlDnyYLV3kj2HD7lAypB4weSemagu/HOjWsMUqNc3STWi3qG1tnl/cNn5yAOBwc56cDqQDQ1Pw5r+pXdtcXF3aT/upY5IGkkSKAs+5HVV/1pVRtw2M9cjJFQ6J4M1LTbVYbiW0by9DGloyOx3MGYhjlRgEEeuDnrQBsReNNFf7WXmmgjtYftBkmgdFliztDxkj51JGAR1yMZBBMsvivTLaC4kvmmtPsxg81J4WVlEzBY2x3BY4yOhDA4waxNV8EXWqRxRm5hhWPSY7QMMnEySxyKcY5TMfPf2qIeCbufT5w1ppmn3Ektqyrb3E03yxXCStudwM52cDZwT1OaANmfxtpdrHvuor+FFRZJ2eyk/0ZWYhTJx8mcZweQCCQBXQ1w3ivwZqniC41dIri3EN/bCKGWeaQm2whBVYgNpDE8tnIyeDxjtoTKbeM3CosxUeYsbFlDY5AJAyM98CgB9FFFABVLVb02FnHMqBy1zBDgnH+smRM/huz+FXaxvFaeZoaIHePdfWY3p95f9Ji5HvQBs02T7o/3h/Os2DS2hnSRtU1KUKc7JGG1vY4UVbvY/tNq0SzTQFiv7yIYZeQeMg0AWaa33k/3v6Gsn+xn/6DOq/99L/8RVi0s2s5MtfXl0GPS4wccHphRQBoU0/61f8AdP8ASqd9Zm8ZCt9eWoUHi3wN31ypqmdGfzB/xOdV6H+Jfb/YoA2qjX/j6f8A3F/m1R2kf2W3ETT3FwQT88wy36AVQn017jUJpRqmoQhlX5IioVevAGygDXpq/ef/AHv6CsSaDWNNzcWV/LqcSDL2l3CodgO0boq4bHZgc8cjrWnY31vf2q3Vo5lhlAZGCnkYHbGQfY8igC1TY/un/eP86PMHo3/fJpqOAp4bqf4T60ASU2P/AFSf7oo8wejf98mmxuBGvDdB/CaAHSf6p/8AdNOqORwY24bof4TTvMHo3/fJoAbP/qx/vp/6EKkqGdwYxw331/hP94VJ5g9G/wC+TQAN95P97+hp1Rs43Jw3X+6fQ07zB6N/3yaAA/61f90/0p1Rlx5g4bof4T7U7zB6N/3yaAAf61v90f1p1Rhx5h4boP4T707zB6N/3yaABfvP/vf0FOqNXG5+G6/3T6CneYPRv++TQA2D/Vn/AH3/APQjUlQwOBGeG++38J/vGpPMHo3/AHyaACP/AFSf7ook/wBU/wDummxuBGvDdB/CaJHBjbhuh/hNAElNk+6P94fzo8wejf8AfJpruCo4bqP4T60ASU1vvJ/vf0NHmD0b/vk01nG5OG6/3T6GgCSo5f8AWQ/75/8AQTTvMHo3/fJqOVx5kPDff/un+6aAJqaf9av+6f6UeYPRv++TTS48wcN0P8J9qAJKaP8AWt/uj+tHmD0b/vk00OPMPDdB/CfegCSmr95/97+go8wejf8AfJpquNz8N1/un0FAElNj+6f94/zo8wejf98mmo4Cnhup/hPrQBJUdt/x6xf7g/lTvMHo3/fJqO3cC1i4b7g/hPpQBJJ/qn/3TTqjkcGNuG6H+E07zB6N/wB8mgAk+6P94fzp1Ru4Kjhuo/hPrTvMHo3/AHyaABvvJ/vf0NOqNnG5OG6/3T6GneYPRv8Avk0AB/1q/wC6f6U6oy48wcN0P8J9qd5g9G/75NADV/4+n/3F/m1SVCrj7U/DfcX+E+rVJ5g9G/75NAAv3n/3v6CnVGrjc/Ddf7p9BTvMHo3/AHyaACP7p/3j/OnVGjgKeG6n+E+tO8wejf8AfJoAI/8AVJ/uiiT/AFT/AO6abG4Ea8N0H8JokcGNuG6H+E0ASUU3zB6N/wB8migBs7QKENwYwN4CeYR97tjPepKyNfY/Z7IlSFF/b5JxgZkAH6kD8a16ACiiigAooooAKKKKACiiigAooooAKKKKACorjyvLH2jZs3pjfjG7cNvXvnGPfFS1keJf+QXAByTqFngDqcXMZ/kCfwoA16bJ90f7w/nRuP8Acb9P8aa7HaPkbqPT1oAkprfeT/e/oaNx/uN+n+NNZjuT5G6+3oaAJKaf9av+6f6Ubj/cb9P8aaWPmD5G6H09qAJKjX/j6f8A3F/m1O3H+436f41GrH7U/wAjfcX09WoAmrH8M5/sy5yWb/iY3nLEn/l5k9a1tx/uN+n+NV7K2jso5IreNgrTPKQSD8zsXbv6saALVNj+6f8AeP8AOjcf7jfp/jTUY7T8jdT6etAElNj/ANUn+6KNx/uN+n+NNjY+WvyMeB6UAOk/1T/7pp1RyMfLb5GHB9KduP8Acb9P8aAGz/6sf76f+hCpKhnY+WPkb76+n94VJuP9xv0/xoAG+8n+9/Q06o2Y7k+Ruvt6Gnbj/cb9P8aAA/61f90/0p1Rlj5g+Ruh9Panbj/cb9P8aAAf61v90f1p1Rhj5h+Rug9Penbj/cb9P8aABfvP/vf0FOqNWO5/kbr7egp24/3G/T/GgBsH+rP++/8A6EakqGBj5Z+Rvvt6f3jUm4/3G/T/ABoAI/8AVJ/uiiT/AFT/AO6abGx8tfkY8D0okY+W3yMOD6UASU2T7o/3h/Ojcf7jfp/jTXY7R8jdR6etAElNb7yf739DRuP9xv0/xprMdyfI3X29DQBJUcv+sh/3z/6CaduP9xv0/wAajlY+ZD8jff8Ab+6aAJqaf9av+6f6Ubj/AHG/T/Gmlj5g+Ruh9PagCSmj/Wt/uj+tG4/3G/T/ABpoY+YfkboPT3oAkpq/ef8A3v6Cjcf7jfp/jTVY7n+Ruvt6CgCSmx/dP+8f50bj/cb9P8aajHafkbqfT1oAkqO2/wCPWL/cH8qduP8Acb9P8ajt2P2WL5GPyD09KAJJP9U/+6adUcjHy2+RhwfSnbj/AHG/T/GgAk+6P94fzp1Rux2j5G6j09aduP8Acb9P8aABvvJ/vf0NOqtLeRx3lvbvuEs25o1x94KOeencVPuP9xv0/wAaAA/61f8AdP8ASnVGWPmD5G6H09qduP8Acb9P8aAGr/x9P/uL/NqkrCPijTjcyfYhcagduM2MDTruUnKl1BQH2JHQ1MdfZEZ5dH1RFUZJEAcn6BWJP5UAaq/ef/e/oKdWdYa1ZX8zRW0h8/Bc28qmOUKDtJMbYYDPGcYq/uP9xv0/xoAI/un/AHj/ADp1Rox2n5G6n09aduP9xv0/xoAI/wDVJ/uiiT/VP/ummxsfLX5GPA9KJGPlt8jDg+lAElFN3H+436f40UAQ39pFfWMltcAmOUBTg4I56g9iOoPY1R+z69CoSLULK4UZAee1ZXxnjJVwCcY6Ko46c4Gk5faMqvUfxe/0p2X/ALq/99f/AFqAILP7asWNRaB5S/BgUqu3HuTz1qG7XWDcH7DJYrDgYE0bs3v0IFW2L7k+Vev972PtTsv/AHV/76/+tQBkn/hIRKqedpnIJz5MnbH+171qxeZ5KeeVMu0bygwpPfGe1MYv9qT5V+438XuvtUmX/ur/AN9f/WoAyseIdxHnaZwM/wCpk/8Aiqmt11r7Qn2uawMOfnEUThj9MtiroL+YflXoP4vr7U7L/wB1f++v/rUARXX2poHFi0KTAjBmUsuO/Qg1Q2eIf+e+mf8AfmT/AOKrSUvuf5V6/wB72HtTsv8A3V/76/8ArUAVdP8A7QxIdSe1bnCfZ0Zcdc5yT7Ul6NTMi/2c9oiY+bz0ZiT7YIqyhfacKvU/xe/0p2X/ALq/99f/AFqAMpR4hZQfO0zkZ/1Mn/xVX4muIrHdeGJ51UlvKBCnrjGST0xUkZfy1wq9B/F/9am3Bf7LLlV+4f4vb6UAUpV13zn8ibThFuOwPE5YDtnDdajTS7qe8hu9Zuoblrdg1vDBCY442PBY5ZizYJAPAAJ45rVy/wDdX/vr/wCtTXL7RlV6j+L3+lAElNk+6P8AeH86Mv8A3V/76/8ArU1y+0ZVeo/i9/pQBJTW+8n+9/Q0Zf8Aur/31/8AWprF9yfKvX+97H2oAkpp/wBav+6f6UZf+6v/AH1/9amkv5g+Veh/i+ntQBJUa/8AH0/+4v8ANqdl/wC6v/fX/wBao1L/AGp/lX7i/wAXu3tQBNWX4fnluLC4ed2dhfXSAseirO6qPwAA/CtLL/3V/wC+v/rVk+HElj064V49pN/dthsjg3EhB6dCCDQBsU2P7p/3j/OjL/3V/wC+v/rU1C+04Vep/i9/pQBJTY/9Un+6KMv/AHV/76/+tTYy/lrhV6D+L/61ADpP9U/+6adUchfy2yq9D/F/9anZf+6v/fX/ANagBs/+rH++n/oQqSoZy/ljKr99f4v9oe1SZf8Aur/31/8AWoAG+8n+9/Q06o2L7k+Vev8Ae9j7U7L/AN1f++v/AK1AAf8AWr/un+lOqMl/MHyr0P8AF9PanZf+6v8A31/9agAH+tb/AHR/WnVGC/mH5V6D+L6+1Oy/91f++v8A61AAv3n/AN7+gp1RqX3P8q9f73sPanZf+6v/AH1/9agBsH+rP++//oRqSoYC/lnCr99v4v8AaPtUmX/ur/31/wDWoAI/9Un+6KJP9U/+6abGX8tcKvQfxf8A1qJC/ltlV6H+L/61AElNk+6P94fzoy/91f8Avr/61NcvtGVXqP4vf6UASU1vvJ/vf0NGX/ur/wB9f/WprF9yfKvX+97H2oAkqOX/AFkP++f/AEE07L/3V/76/wDrVHKX8yH5V+//AHv9k+1AE1NP+tX/AHT/AEoy/wDdX/vr/wCtTSX8wfKvQ/xfT2oAkpo/1rf7o/rRl/7q/wDfX/1qaC/mH5V6D+L6+1AElNX7z/739BRl/wC6v/fX/wBamqX3P8q9f73sPagCSmx/dP8AvH+dGX/ur/31/wDWpqF9pwq9T/F7/SgCSo7b/j1i/wBwfyp2X/ur/wB9f/WqO3L/AGWLCr9wfxe30oAkk/1T/wC6adUchfy2yq9D/F/9anZf+6v/AH1/9agAk+6P94fzp1RuX2jKr1H8Xv8ASnZf+6v/AH1/9agCnc2Rm1ixvN4C26yqVx97cB/8TV6s26vJ4tc0+1VU8udJWbJ5yoXH8zWhl/7q/wDfX/1qAIrm5htEM91KsUSKSzucAcip6xdRVb7xHpljOhKQrJfHBOCyFVQHj1csPeMVtUANjjSKNY4lVEQBVVRgKB0AFOoooATaNwbA3AYBx0/zimyzxQbPPlSPzHCJvYDcx6AZ6n2p9V7+zj1DT57SYDZMhUkjOPQ/UHn8KAJo/un/AHj/ADp1ZuhXs9/oVpc3CIs8kf75Q3AkHDAcf3gfT6CtDL/3V/76/wDrUAEf+qT/AHRRJ/qn/wB002Mv5a4Veg/i/wDrUSF/LbKr0P8AF/8AWoAkopuX/ur/AN9f/WooAJPuj/eH86dUbh9oyy9R/D7/AFp2H/vL/wB8/wD16ABvvJ/vf0NOqNg+5PmXr/d9j707D/3l/wC+f/r0ANb/AI+k/wBxv5rUlQsH+1J8y/cb+H3X3qTD/wB5f++f/r0AA/1rf7o/rTqjAfzD8y9B/D9fenYf+8v/AHz/APXoAF+8/wDvf0FOqNQ+5/mXr/d9h707D/3l/wC+f/r0AEf3T/vH+dOqNA+04Zep/h9/rTsP/eX/AL5/+vQAR/6pP90U25/49Zf9w/yojD+WuGXoP4f/AK9NuA/2WXLL9w/w+31oAmpsn3R/vD+dGH/vL/3z/wDXprh9oyy9R/D7/WgCSmyfdH+8P50Yf+8v/fP/ANemuH2jLL1H8Pv9aAJKa33k/wB7+how/wDeX/vn/wCvTWD7k+Zev932PvQBJTT/AK1f90/0ow/95f8Avn/69NIfzB8y9D/D9PegCSo1/wCPp/8AcX+bU7D/AN5f++f/AK9RqH+1P8y/cX+H3b3oAmqC1uIrpZJIHDqJWjJH95TtYfgQR+FS4f8AvL/3z/8AXrH8Mh/7MucFf+Qjedv+nmT3oA2qbH90/wC8f50Yf+8v/fP/ANemoH2nDL1P8Pv9aAJKbH/qk/3RRh/7y/8AfP8A9emxh/LXDL0H8P8A9egB0n+qf/dNOqOQP5bZZeh/h/8Ar07D/wB5f++f/r0ANn/1Y/30/wDQhUlQzh/LGWX76/w/7Q96kw/95f8Avn/69AA33k/3v6GnVGwfcnzL1/u+x96dh/7y/wDfP/16AA/61f8AdP8ASnVGQ/mD5l6H+H6e9Ow/95f++f8A69AAP9a3+6P606owH8w/MvQfw/X3p2H/ALy/98//AF6ABfvP/vf0FOqNQ+5/mXr/AHfYe9Ow/wDeX/vn/wCvQA2D/Vn/AH3/APQjUlQwB/LOGX77fw/7R96kw/8AeX/vn/69ABH/AKpP90USf6p/9002MP5a4Zeg/h/+vRIH8tssvQ/w/wD16AJKbJ90f7w/nRh/7y/98/8A16a4faMsvUfw+/1oAkprfeT/AHv6GjD/AN5f++f/AK9NYPuT5l6/3fY+9AElRy/6yH/fP/oJp2H/ALy/98//AF6jlD+ZD8y/f/u/7J96AJqaf9av+6f6UYf+8v8A3z/9emkP5g+Zeh/h+nvQBJTR/rW/3R/WjD/3l/75/wDr00B/MPzL0H8P196AJKav3n/3v6CjD/3l/wC+f/r01Q+5/mXr/d9h70ASU2P7p/3j/OjD/wB5f++f/r01A+04Zep/h9/rQBlz6peXV7JaaFDDKYH2XNzcMyxxN12qAP3jeoBAHc54pIbfXzbx7NT00LtGAdOkJAx6+fR4SjKeDtJKFQZLSOVyQSWd1DMxOeSWJJPqa07cP9liwy/cH8Pt9aAM2S38Q+W3/E00zof+YbJ/8fp32fxD/wBBTTP/AAWyf/H60pA/ltll6H+H/wCvTsP/AHl/75/+vQBkvb+Ido/4mmmdR/zDZPX/AK7077P4h/6Cmmf+C2T/AOP1pOH2jLL1H8Pv9adh/wC8v/fP/wBegDk9S0rU73xJo6apd2c9uBMSILSWE9F43CY4JGf/AK9bH/CM6X/zym/8Cpf/AIqrstykd5b27yKJZtzRrsPIUc/zFT4f+8v/AHz/APXoAwotMs9I8VWklskqi6tpYSzyPINylGUc5xkbz1H3a36pX9guoJHHK+xkcSxyIo3IysCCM5Ge30Jq7QAUUUUAFMnnitreSe4dY4okLu7HAVQMkn8KfVTUrEalZm1kkZInYeaqgHzEB5Q/7J6H1GR3oAq+GUZPDdoZEKNKpmZDn5S7F8cgHjdjoK1ajQPtOGXqf4ff607D/wB5f++f/r0AEf8Aqk/3RRJ/qn/3TTYw/lrhl6D+H/69Egfy2yy9D/D/APXoAkopuH/vL/3z/wDXooAJPuj/AHh/OnVC8T7R+/k6jsvr9Kd5T/8APeT8l/woAc33k/3v6GnVC0T7k/fydfRfQ+1O8p/+e8n5L/hQAN/x9J/uN/NakquY2+0oPOf7jc4X1HtUnlP/AM95PyX/AAoAcP8AWt/uj+tOqERP5h/fydB2X39qd5T/APPeT8l/woAcv3n/AN7+gp1QrE+5/wB/J19F9B7U7yn/AOe8n5L/AIUAOj+6f94/zp1QpE+0/v5Op7L6/SneU/8Az3k/Jf8ACgB0f+qT/dFNuf8Aj1l/3D/KmxxP5a/v5BwOy/4U24jYW0pMzn5DwQvPH0oAsU2T7o/3h/Om+U//AD3k/Jf8Ka8T7R+/k6jsvr9KAJqbJ90f7w/nTfKf/nvJ+S/4U14n2j9/J1HZfX6UATU1vvJ/vf0NN8p/+e8n5L/hTWifcn7+Tr6L6H2oAmpp/wBav+6f6U3yn/57yfkv+FNMT+YP38nQ9l9vagCao1/4+n/3F/m1HlP/AM95PyX/AAqMRt9pcec/3F5wvqfagCxVHSbI6fbTQs4ctdTzZAx/rJGkx+G7H4Va8p/+e8n5L/hVDSLmXULWaaSRkK3U8OFA5EcrID06kKKANOmx/dP+8f503yn/AOe8n5L/AIU1In2n9/J1PZfX6UATU2P/AFSf7opvlP8A895PyX/CmxxP5a/v5BwOy/4UASSf6p/9006oZIn8tv38h4PZf8Kd5T/895PyX/CgAn/1Y/30/wDQhUlV5o2EY/fOfnXqF/vD2qTyn/57yfkv+FADm+8n+9/Q06svV7m4s4rdLRmmu7qYQwK+0Lu2sxZjjoFVmPc4wOSKiXS9bYZn8QsHwMiCzjROnOA249cnknrQBrn/AFq/7p/pTqqWtpcwxYudQluZATiQxopx6YAxUF1p+oTTl7fWp7ePAxGsETY/ErQBoD/Wt/uj+tOrG/snVc5/4SK4z/17Q/8AxNaNvbzxwKk95JNIBzIURd34AUATL95/97+gp1ZUumak87vFrs8SM2Qgt4iF9slc0z+ytW/6GK4/8Bof/iaANSD/AFZ/33/9CNSVXgtpIoERrqR2A+Zyqjce5xjuaoNpeqliR4huFBPQW0PH/jtAGrH/AKpP90USf6p/901kDSdVAAHiK4wP+naH/wCJrTeB3Rl+0SDIxkBeP0oAmpsn3R/vD+dZP9lat/0MVx/4DQ//ABNOj0vU1lRpdeuJEVgWQ28Q3AHpkLQBrU1vvJ/vf0NQzW80kLpFeSxORhXCoSp9cFcVnHSdVOM+Irjjp/o0P/xNAGzUcv8ArIf98/8AoJqhbadqMVwrz63PPGM5jMES7uPULmrF3Zzzw7YL6a3kBysiojY/ArjpQBbpp/1q/wC6f6Vk/wBmawikx6+7Pj5fOtIyv4hQpP5ipbG4nmnktbx2S7twPM2L8jA/dZSV6HB47EEZOMkA06aP9a3+6P603yn/AOe8n5L/AIU0RP5h/fydB2X39qAJqav3n/3v6Cm+U/8Az3k/Jf8ACmrE+5/38nX0X0HtQBNTY/un/eP86b5T/wDPeT8l/wAKakT7T+/k6nsvr9KAM/wr/wAibov/AF4Qf+i1rStv+PWL/cH8qyfCsbHwdo376Qf6BBxhf+ea+1aVvGxtoiJnHyDgBeOPpQBNJ/qn/wB006oZIn8tv38h4PZf8Kd5T/8APeT8l/woAdJ90f7w/nTqheJ9o/fydR2X1+lO8p/+e8n5L/hQBVubIzaxY3m8BbdZVK4+9uA/+Jot9Xt7nWr3S0Ei3Nmkcjh1wGWTdtKnuMqw+oqw0T7k/fydfRfQ+1c34os9RsbyDXdESW6vY4JbSSJVB3q43RnAHaVU57K7mgDVsdettS1SW2tI5mWAzI85ACbo3VWA5yfmyM4x8jZI4zfjvLaZA8NxFIpfYGVwQW9Pr7V51rvhXUbVLex0pLi7EGgXELuAB57meBnUt03SBZD+JqudDuHsdRv9Jj1Az2cUNxFEdJFksssL71VUwCzABlyFwQ4GTwKAOzgfUI55I7DXbO9gtWWKf7XGGkV+cqXjKgNgrwVzyPWrCSeIJJ/LP9kxYILEPJIwXHXbhe/vXDeHNC1aHxFax3UV2lvqnl65fM8fEVxmUmI5GFIJg4/6Zn046bxTZ6naXkGraEstxevBJYsoUEAON0btgdFkUZ9A7GgDQ065uG1C8a+1Eyx26oS0cccdscg528s+QRk5bHIx0NXINas7i4vow+xbFkWWVyAh3Irgg56YYdcV59d+Fp9N1G5gtrS5uNKtU0pJEWHzDcxxNNvAXB3kFkYjkn3qrc6HdXNzfz2On3VrpK6vb3RhfTyxaMQFS6wFMtiQhtgGe+MjFAHqa3duLM3JniEGSfNLjbjPr0qZHWRA6MGVhkMDkEV5la6RLbpYXk8GoXWjrqU809q2mBCpaPasgt1BYruBOCu4MxbHeup8G2M9vpNySs1nbTXs01pbvEI2jhZsqChGVycnbgYz0FAHRx/6pP8AdFEn+qf/AHTUccT+Wv7+QcDsv+FEkT+W37+Q8Hsv+FAE1FR+U/8Az3k/Jf8ACigB0n3R/vD+dZVz4q0S0fZLqMLNkg+VmTBBwQdoODnsab4lj83SUtQ8iLd3MMEjK5B2NIAw/FcjPbOa1440ijWOJVREAVVUYCgdABQBTsNVstXj83Tp/ORH2sdpXBx6EA96hv8AxJpWmXRt7668qUAEr5btwfcCtSigDnj4z0H7Qjfb+AjAnyZPUf7Nb0E8dzbxzwNujlQOjYxkEZB5p9FAGCfGWhJMwa+KkAAgwScHn/Zqa18VaNe3UdvbXm+WQ4VfKcZP1IrYooAq3l9b6bbS3V65jhVhl9hbGcAdAe9Zn/CaaB/z/wD/AJBk/wDia3aKAM7Stb07VvMXT7gStGcsNjKQCTjqBml1LXdN0iRE1C58lpBlR5bNkfgDWhRQBgJ400ARqDf84H/LGT/4mtSG8g1LSjc2T+bFIjbGCkZxkdDz1FW6KAMe58WaLaXMlvcXhjljYq6mF+CP+A1btNVsNUiZtOvIbkRuFfynDFDnoR26d6u1ieIYEhkstUiGy6iuoLcyLwXilmRGQ+o+YH2I4xQBt02T7o/3h/Ojyx6t/wB9GmugCjluo/iPrQBJTW+8n+9/Q0eWPVv++jTWQbk5br/ePoaAJKaf9av+6f6UeWPVv++jTSg8wct0P8R9qAJKjX/j6f8A3F/m1O8serf99Go1Qfan5b7i/wAR9WoAmrH8M/8AIMuf+wjef+lMla3lj1b/AL6NRW9rDbrIkKeWpkZyFJGWY7mP1JJP40AT02P7p/3j/OuW0nxfBcTNBqKTJI2pXNlFJFDJ5WY5ZFRCxyN5VM+mT2JxTNK8b2+pT6XElheJ/aM1yiMQ2FWJiN3TnPGfTnrigDrqbH/qk/3RXO2PjbQtQWGSOa5it7iBp4LieGSOOVUXc+1iOoGSR7HGcGnx+KrB9Gur9YrxEtbM3n76CSISRhSQVJGDnHTqMjjmgDfk/wBU/wDumnVybeNLCxtXh1kzreWaQx6i8FvKYbeWRFYDPPBLgDknnn1q5/wl2lC3mdxeJNDcLbG1eBxM0jjcoCdTlec+gOcYOADcn/1Y/wB9P/QhUlchdeOdPLWkdpaX0xm1QadKDE6tDII/NOQRknGBj6kcCtbw1rcfiPS3vY7a4tlW4mhCSlgT5cjJnt125I7HI5xmgB+p/wDIe0X/AK6y/wDopq1qjLxRSIjSBXkJCKz8tgZOAevFSUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVjW6j/AITnUGwNx061BOOv7y4/xrZqEyRPd+SJFMqJvZA3zKCcAkehwfyPpQBNTR/rW/3R/Wjyx6t/30aaEHmHlug/iPvQBJTV+8/+9/QUeWPVv++jTVQbn5br/ePoKAJKbH90/wC8f50eWPVv++jTUQFTy3U/xH1oAzfCv/Im6L/14Qf+i1rStv8Aj1i/3B/Ksvwqg/4Q3RuW/wCPCD+I/wDPNa0rdAbWLlvuD+I+lAEkn+qf/dNOqORAI25bof4jTvLHq3/fRoAJPuj/AHh/OnVG6AKOW6j+I+tO8serf99GgAb7yf739DTqy7ieVPE9haK7CCW1uJHXPVlaEKc9eA7fnWl5Y9W/76NAAf8AWr/un+lOqMoPMHLdD/EfalZPlO3JbHALkZoARf8Aj6f/AHF/m1SViDSNVuXWW91uW2baA0WnxIqHrkFpA7Hr1BXp05qT+wpx/q9e1VD674m/RoyKANVfvP8A739BTqzdPtNTt52S+vIry32fLIIzHLu/2sHa2R3AX6VoeWPVv++jQAR/dP8AvH+dOqNEBU8t1P8AEfWneWPVv++jQAR/6pP90USf6p/9002NAY15boP4jRIgEbct0P8AEaAJKKb5Y9W/76NFAEF9ZJfRwq7MvlTJMMdyrZxVms3V53s47RrYhGkvIY2IUHKswBH5VpUAFFFFABRRWbrGtJpP2SNbeW7ur2bybe3iIDOQpYnLEAAKpOSf50AaVFc/eeKJbWyhl/sa785w/mRTPHD5ZQ4I3swVif4cEg9cgc1Sm8fRPbwTaVpV3qAm01NSwjIhSE5zncRyNuMDJyR2yQAdbRXK/wDCe2sK3Ml/p93axR2q3lszbGN1EzhFKgN8rFiuFbB+YZwcgOk8dWVvBdNcQOZLY226O3lSbes0gjUqVOCQxII68cZBBIB1FFcrqXjZ9HgM2p6JdQJDEJbkmaL90pJ+7837whRuO3IGcZJGK6qgAooooAKqalZC/tUhZygW4hmyBn/Vyq+Px24/GrdZ2u3Mtpp0ckDbWa8tYicA5V540Yc+qsR+NAGjTZPuj/eH86PLT+4v5U140CjCL1Hb3oAkprfeT/e/oaPLT+4v5U1o03J8i9fT2NAElNP+tX/dP9KPLT+4v5U0xp5g+Reh7fSgCSo1/wCPp/8AcX+bU7y0/uL+VRrGn2p/kX7i9vdqAJqyfDm/+zrjzN2f7Qu8bvT7RJj9MVqeWn9xfyrEilttE1O6huo/JtbuYzRXDcxo5UbkYn7mSCwzgHdgc8EApjwtd/2bBbGaDdFrr6nkZ5ja4eUL0+9h8enFU9J8L6vp0+jP/oUi6Zc3an9+4MkMz7t/3OHX+7yD/eFdkqxMoZVQqRkEAc0iRoVOUXqe3vQB554P0XWNS8J+FZLgWMMGm2RkgLl5Gld4GjUSR4UBQHOcMS2P4atWng7VinkbbPT9Ol8hZrG3vZponVZVd2VXQCMlV2bV4wxyeBXd+Wn9xfypscaGNcovQdqAOZ1DwvdTx+ISk0GdTvba6iDZwqxLCCG47+UenqKi1HwpqEmu3Or2Uts0638F7bwzMyq+yBoWV2AJXIckEA9BxXVyRoI2wi9D2p3lp/cX8qAPOtP0nVr+6vrlxai7sfFa3kkZdljZTaRxlVbaScCTrtGdvQZ463wtpd3oulzWN55DKt5cSwyROTvSSVpBuBUbSN5GASOM55wNSeNBGMIv317f7Qrh9G+MPgvVpzbz3n9mXAcoUvkCLkdTvGVx9SD7UAdRqf8AyHtF/wCusv8A6Katasx4YtRvdNv7Ca3lggZ3Z42B3BoyBgjg9QfpWnQAUUUUAFFY/i66nsfBOuXdpI0U8GnXEsUi9UZY2II+hFUdfvp4NL8PyW9y6NPqNpG7K/8ArFY/MD6gigDpqK4q38dzLNetqVtaW6WkNxM9p57C6jWLPzFHUbgQM5XIGRyQahHxDkisLma4treWWLTJ70JA74SSJSxiZmUZyvRh/dbjpkA7uisC7v8AU/8AhA7/AFC7jis70WMsyJbyFxEfLJX5iBkj6YrJk8VavDY3H2OxguP7N0qC/uJbiZkMu5HJRcKfm/dnk8DI9aAO1orhJ/HN5ZS61dyxRS2cDWcVnGWKndOFwWIUkD58nqRjgU+Px7dvbukVjb3N0t5b2yNHI6QyedkBtzJkYKnIweMHnOKAO4orgo9b1Sw17xFd6nLa/wChi1t4o5L144IzIqknBGDySc4LHhR1q1a+OZ7mFrdLOGTUDqSafGVd0hdmh87edy7gAm7jByRwec0AdnRXH6p4xvtJuLKwv7O1tr64Ezs7zO0PlxlQGXapbLF14IGOcngZ3vD2rnXdBt9RMBt2l3BoznhlYqcEgEjKkg4GRg0AaVFFFABWPb/8jvf/APYOtf8A0ZPWxWPN9nsPEc99f3VtDFc2kUMayyBSWjeQsee2JF/WgDYpo/1rf7o/rVD+2NG/6CNh/wB/0/xpBrGjeYf+JjY4wP8Alunv70AaVNX7z/739BVD+2NG/wCgjYf9/wBP8aRdY0bc2dRsevH79PQe9AGlTY/un/eP86of2xo3/QRsP+/6f41j634j0xrVtM07U7A6jdqyp++QiFCcGVuegHQHqcD6AGn4V/5E3Rf+vCD/ANFrWlbf8esX+4P5Vnwalodvbxwx6hYhI0CL+/ToBj1ot9Y0b7NFnUbHOwZzOnp9aANKT/VP/umnVmvrGjeW2NRsc4P/AC3T/Gl/tjRv+gjYf9/0/wAaAL8n3R/vD+dOrNfWNG28ajY9R/y3T1+tL/bGjf8AQRsP+/6f40AWpJYReQRMyidlZkU/eKjAYj2yy/mKnrlNR1e1/wCEu0o6b9nv3a1uUMcNxGDktCR1OOx46/lWn9v1H/oXpP8AwIi/xoAm1O/kt72ws7TYbq8kKrvUsqRrhnYgEdhtH+0y1pVz+nTTXfi64N5YtZNb2MYiV3VtwkkfeQVP/TJM/hXQUAFFFFABVLVbqexsTdwKrpAQ8yFcs0Y+9tOQAQOec5xjHORdpskaSxtHKqujgqysMhgeoIoAI/un/eP86dWN4SQN4O0nf+8P2SMeYwGXAUYY/Uc/jWv5af3F/KgAj/1Sf7ook/1T/wC6abHGhjXKL0HaiSNBG2EXoe1AElFN8tP7i/lRQBma2rTxWSwgyFb2FiEGcAOCT9BWrUNzdxWixtOSBJKsS4GcsxwKmoAKKKKACsnXNFk1SSwurO6Fpe6fOZoJXi8xDlCjKy7lyCG9QeBWtRQByd54LnvL22vJdX8y5SKWGaSe1WT5XffmIE4iZegPzcAZBIzRpPgdtMt/JOoiVV0n+y4z5G0hAzEMfmOThsds4zxXWUUAcrqHgeHU1RLm8YImmLYjZHghlkSRZQc9mQfLj8aQ+DJbiwlhvr2082SS3cNZ6ckCL5Uyy9NzMdxQA5bHoBXV0UAcfr/gJddvNVc36W8WqQLFKRahpk2oVG2Qnheclcc88jJrrYVkW3jW4dZJQoDuq7QzY5IGTgZ7ZNPooAKKKKACsjxRZrf6KtvJbi5ja8tDJEybwUFxGWyPQAEn2Fa9QXl3FZwLLOSFaWOIYGfmd1Rf1YUAZ6+G/DisGXRdLDA5BFrHx+laUrRvGVYqwJAIJzkZqWmyfdH+8P50AZP/AAjPhv8A6Amlf+Akf+FNbwz4b3LjRNK68/6JH6H2raprfeT/AHv6GgBFaJVCqyBQMAAjisqTw54eluDJJo2mOzZZma1jJJJ6k461sU0/61f90/0oAyf+EZ8N/wDQE0r/AMBI/wDCr1ulvat5NssUMKRqqJGAqqMtwAOBVqo1/wCPp/8AcX+bUAULjQtBvLh57vStOnmc5eSW3jZm+pIyawD4W0HWNWuoJNHsINPtHEZEdvGpunKAnkDIVdwHBGWyDwMHsqxvDA/4l923JLajeEknPSdwP0AFADYPCXhe2gSGHQtKVEGFH2WM/qRz9aVPDPhvbzomldT/AMukfr9K2qbH90/7x/nQBk/8Iz4b/wCgJpX/AICR/wCFNTwz4b8tc6JpWcDObSP/AArapsf+qT/dFAGO/hnw35bY0TSs4OMWkf8AhWha2en2Nsbeyt7a3gJJMUKKinPXgcVYk/1T/wC6adQBhzeGfDnljGiaX99elpH/AHh7V5xpP7PuhxTvNrmrTXe52Kw2wEKKD0B6k49sf4+vz/6sf76f+hCpKAOe0nSdE8Iy2um+H9MgtY75yHaNst8iEgsTkt0xye5NdDWTqf8AyHtF/wCusv8A6KatagAooooAjubeK7tZba5jEkMyGORG6MpGCD+Fc/Z+CLK1uNPea/1C9h0xt1jbXMqtHbkKVBGFDMQCQNxbFdJRQBgHwhaTXsc1/e31/FCJBDbXUqukYkUo3O3c2VYj5mPFMj8HQDTbnT7nVdUu7Se0eyWGaddsUTjaQoVRkgcBn3EevWuiooAq3Onw3ejzabKX8iaBoGIOG2ldp59cVQXwvYLHfIGmxfWMdjL844jRXUY44OJG5+lbNFAHOSeCdOka4H2i7WO4jgVo1dQFkh2+VMp27g67R32nuKsjw1HLFGNQ1K/v5I7uO7WW4dAQ0f3QFRVUD1woJ7mtqigDDv8AwnY38t5MZrmC4uriG586Jl3RSRABGUFSO3Qgg1B/whVnvuJTf35uJ5ork3BkTek6LtEq/LjJX5SuNuOAoro6KAMA+EoQsEsWqajFfwmUjUBIjTMJCC6kMhTaSq/LtwNoxitiytRZWcVuss0wjXHmTyF3f3JPU1PRQAUUUUAFYeoWeka5rrWGtaRZXos7ZJo5LuFJceazqQAwOP8AVD659q3Kx7f/AJHe/wD+wda/+jJ6AIP+EL8H/wDQtaJ/4AQ//E00eC/CHmH/AIprRMYH/LhD7/7NdDTR/rW/3R/WgDC/4Qvwf/0LWif+AEP/AMTTV8F+ENzZ8NaJ14/0CH0/3a6Gmr95/wDe/oKAML/hC/B//QtaJ/4AQ/8AxNU5fD2m+Ho5NQ0S3htoY2MlzYqq+TImfmKoeEcKMjbgEjB65HV0xVDRsrAFSWBBHXk0AV0g06WNZI4rV0YAqyqpBB7g023tbH7NFmC3zsH8C+lQeGHaXwjo7ucs1jCSfUmMVoW3/HrF/uD+VAEElrYmNsQW+cH+Bad9lsf+eFv/AN8LU8n+qf8A3TTqAKj2tjt4gt+o/gX1p32Wx/54W/8A3wtTyfdH+8P506gDNbTLQa1a6hF5UbQRSxbVUDO8oc59tmP+BGtDzE/vr+dZ9zdTJ4o0+0V8QS2txI6YHLK0QU568B2/OtKgDE1VlstbsdWQlo8GzuFRA3yyOuxz3AVwM9grMT0yNumn/Wr/ALp/pRI4jjZ2DEKCSFUsfwA5P0FADqKz7fX9KuZmhiv4ROgy8EjeXKg4+8jYYdR1FXLi5gtYvNupo4Y843yOFH5mgCSqGs3UttprLaqTczkQwcEhXbgM2Oiryx9ge+KfZ6tZahLIljOLgRkhpIlLRgjGRvA2k8jjOauUAVbCC30/T4LO3IWG3QRRgtkhV4HP0FWPMT++v50R/dP+8f506gCOORBGuWXoO9EkiGNsMvQ96dH/AKpP90USf6p/900AHmJ/fX86KdRQBj+I5Y47C2nlbZHDfW7OzKcAGVVz04HPJPAGTWxUc8aSwtHKquj4VlYZDAnkEVmL4eSFQlnqOo20KjCxJcblX6bwxA9s4HagDXoqraWr2SbGu7i63NnM5UkcdBgCo7zTXu5/MXUr23GMbIHUL9eVNAF6isY6LMJ1X+2tTwVJP7xOxH+x71rRIYoUjLtIUULvc/M2O596AH0VknRZGmbGsako6gCROOv+zUkGkPDOkjarqEoU52SSLtb2OFFAGlRUFxC11bywieWAkjEkRAZeh4yDVD+w5f8AoNan/wB/E/8AiKANaiqWn2L2hdnvrq63cYnZSFwe2FFLfWD3jIVvrq1Cg8W7KN31ypoAuUVkJokrRqTrWp5I/wCeif8AxFX44ms9PKefLO0asRJMQWPU84AFAFisbxLIDa2VsvzTT6hbeWg6kJMsjH8FRj+FTz6Q807yLquoRBjnZHIu1fYZU0lrodpZ3H2tjJdXn3BdXLb5FUtkqp/hXPYYzgelAGj5g9G/75NNdwVHDdR/CfWpKbJ90f7w/nQAeYPRv++TTWcbk4br/dPoakprfeT/AHv6GgA8wejf98mmlx5g4bof4T7VJTT/AK1f90/0oAPMHo3/AHyajVx9qfhvuL/CfVqmqNf+Pp/9xf5tQA7zB6N/3yaigMShxCoClyTsXjPfp3znPvU9Y/hn/kGXP/YRvP8A0pkoA1vMHo3/AHyaajgKeG6n+E+tSU2P7p/3j/OgA8wejf8AfJpsbgRrw3QfwmpKbH/qk/3RQA2RwY24bof4TTvMHo3/AHyaJP8AVP8A7pp1AEM7gxjhvvr/AAn+8Kk8wejf98mmz/6sf76f+hCpKAIHt4J7iGaRCZICWjY5G0kYP14NT1mahLImt6QiSMqSSyh1DYDYjYjI781p0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVW+zQx6m94FbzpYVic8nKozFePq7VZrLhnlbxdewM7GJLG3dUzwGaSYE/iFX8hQBpeYPRv++TTQ48w8N0H8J96kpo/1rf7o/rQAeYPRv++TTVcbn4br/dPoKkpq/ef/AHv6CgA8wejf98mmo4Cnhup/hPrUlNj+6f8AeP8AOgDJ8KuP+EN0bhv+PCD+E/8APNa0rdwLWLhvuD+E+lZ/hX/kTdF/68IP/Ra1pW3/AB6xf7g/lQASODG3DdD/AAmneYPRv++TRJ/qn/3TTqAI3cFRw3Ufwn1rnby4utW8YT6PFf3Fja2dlFcP9mULJM8jyKBuIOFAj7Y5brxXSSfdH+8P51mapoEeo30V9De3en3sUZiFxaMoZkJztYOrKwyMjI45xjJoAwdSj1jTNU0GKLUX1GR7+YR/aAYd0ZgkOyQoMOFPzfdGdo780xvHN2mmwedBp9vfG9ns5hNcsIwYs5KALvfOBwBxk56c7Np4UsLGexmSS4luLa5e4M8sm555GjZCXOOflbgDAGBULeCrIXn2u2vr61uPOuJTLC6BiJyrOnKn5couO4x1oAzLLxpqWryaXFpmmW4ub6ynnYTzMEhaKVY2GQpLAk8cCktPHN/qsds2mabDuGmLqF2ssjfLlmUJHhfmOY35OBwPXjZ0fwlYaHfwTWktwwghnihjkZdsSSyJIyjCg43LxkkjJHpjC1PwhcadFaQeH7W4uEWxks5ZVvUieVdxZEkBT7mXY7kIYZOM0AVZ/HNrqVmjXOm2krTaTb3Zgugzq8ko3+UPlPG3PzHAyV98a+oLo2l+G49b0fw1aSPIIWUCyCmNHZcu21C2FB3EAE/L+NFj4HitLe2hg1O+sp4dNt7G4lsnVPtCxqVBO5SQeuGXaeetdHfaf9tsRbJd3VoylSk9vLiRSOnJyG9wwIPcGgDkJvH5t9OtWU6bNPe3bwRzw3DvAFSMMzsApYMD8uzGc9wKW18Yapquq6PFZQQQrcPdJOrFyrmIDBUlAdpDBhwD2Nasfgy0XfKL++/tH7Wbr+0QYxN5hiEZOAnl42ADbsxxnGeasnwzEZtNuG1G/e60+V5FuHkVmlD/AH0fKkbTwMKFxgYxQBx9l45vLfw/Y6xqNuZ7ltAuNRIjnZY32vFwUxt3Hf8AexxyB1NbV94z1DSJby31PToDdJBBNbpDMxVjNN5IRyV4wxGWAOQenFSw/D7SxpRsJLm9lgFlPp8YZ0BjgkZSUBCjp5YwTk9c5q54i8Mw6rHeXUcTTXstqkCI0/lL8knmIQwBKsG5BwRkDigDKl8Y6rYPqVrdaRE8+npaMZIJHdCkzOrSEBNwVNhJABP4c1u6FrP9taQ9wZLSXDtGJLKYyxtgdc4BU84KnkYrE0XwxfS3Wp6hqF1f2Nxei2WORLpGmHlB8M21fLwfMI2bSuFyeTW/pWixaNa3gS4nupruU3FxcXBXfI+1VyQqqo+VFGAB0oA0vMHo3/fJop1FAELyvtH7iTqO6+v1p3mv/wA8JPzX/GnSfdH+8P506gCFpX3J+4k6+q+h96d5r/8APCT81/xpzfeT/e/oadQBXMjfaUPkv9xuMr6j3qTzX/54Sfmv+NDf8fSf7jfzWpKAIRK/mH9xJ0Hdff3p3mv/AM8JPzX/ABpw/wBa3+6P606gCFZX3P8AuJOvqvoPenea/wDzwk/Nf8acv3n/AN7+gp1AEKSvtP7iTqe6+v1p3mv/AM8JPzX/ABp0f3T/ALx/nTqAIY5X8tf3Eh4Hdf8AGm3EjG2lBhcfIeSV44+tTR/6pP8AdFNuf+PWX/cP8qADzX/54Sfmv+NNeV9o/cSdR3X1+tTU2T7o/wB4fzoAb5r/APPCT81/xpryvtH7iTqO6+v1qamyfdH+8P50AN81/wDnhJ+a/wCNNaV9yfuJOvqvofepqa33k/3v6GgBvmv/AM8JPzX/ABpplfzB+4k6Huvt71NTT/rV/wB0/wBKAG+a/wDzwk/Nf8ajEjfaXPkv9xeMr6n3qxUa/wDH0/8AuL/NqADzX/54Sfmv+NZ2iQXFlZTxT27hmvLiUAMp+V5nde/owrVqpp16l/DLNGrKFuJYSG9Y3KE/iVJoAn81/wDnhJ+a/wCNNSV9p/cSdT3X1+tTU2P7p/3j/OgBvmv/AM8JPzX/ABpscr+Wv7iQ8Duv+NTU2P8A1Sf7ooAjklfy2/cSDg91/wAad5r/APPCT81/xp0n+qf/AHTTqAK80jGMfuXHzr1K/wB4e9Sea/8Azwk/Nf8AGif/AFY/30/9CFSUAZOsRXkv2O5sICbiznMoicqBMpRlKbs/LkNkH1UZ4zSL4gXaPM0vVI2xyhtS2PxXI/I1qt95P97+hp1AFayvVvYi6wzw4YjbPEY2PTnB7c1FeaslnP5TWl7McZ3QWzOv0yBVw/61f90/0p1AGT/wkMWcf2fqef8Aryf/AArRtbgXVssyxyxBs/JKhRhzjkHpTx/rW/3R/WnUAZtxrUdvcPD9jv5ChwWitXZT9Djmo/8AhIIv+gfqf/gE/wDhWov3n/3v6CnUARwTLcQJKgZQ4ztddrD2I7Gs+TXokkZPsGpNtJG5bNyD7jitCD/Vn/ff/wBCNSUAY0Hie2uraO4t7LUpIpUDxutm5DKRkEcelbJOASegrJ8J/wDImaL/ANg+D/0Wtakn+qf/AHTQBl/8JBF/0D9T/wDAJ/8ACnxa7HLMkf2HUU3sFDPaOFGTjk44FadNk+6P94fzoASWTyYXkKswRS21Fyxx2A7msz/hIYhj/iX6nz/05P8A4VrU1vvJ/vf0NAFC31qO4uEiFlfxljjdLauqj6nHFW7u6WztzK6SyYIASJC7H6AVNUcv+sh/3z/6CaAMw+IEx8mmao7ZACizYZ/E4FLpy3bXk99fWjwzTgIkIkVjHEv3Q2GxuyzE49QMnGTrU0/61f8AdP8ASgBvmv8A88JPzX/GmiV/MP7iToO6+/vU1NH+tb/dH9aAG+a//PCT81/xpqyvuf8AcSdfVfQe9TU1fvP/AL39BQA3zX/54Sfmv+NNSV9p/cSdT3X1+tTU2P7p/wB4/wA6AMfwrIw8HaN+5kP+gQc5X/nmvvWlbyMLaICFz8g5BXnj61R8K/8AIm6L/wBeEH/ota0rb/j1i/3B/KgBskr+W37iQcHuv+NO81/+eEn5r/jTpP8AVP8A7pp1AELyvtH7iTqO6+v1p3mv/wA8JPzX/GnSfdH+8P506gCFpX3J+4k6+q+h96d5r/8APCT81/xqtc33k6tZWfl5+0CRt+77u0Dt3zu/SrtAEJlfzB+4k6Huvt707zX/AOeEn5r/AI04/wCtX/dP9KdQBXEjfaXPkv8AcXjK+p96k81/+eEn5r/jWXHe6tdTGW00lYInjHzX1wI3z82MIgfjp1KnnpTlPiFI8uumTPx8gaSMe/zYb+VAGgsr7n/cSdfVfQe9O81/+eEn5r/jVOyvLx7hob/TntnPIljkEsTdOA3DD8VFaFAEKSvtP7iTqe6+v1p3mv8A88JPzX/GnR/dP+8f506gCGOV/LX9xIeB3X/GiSV/Lb9xIOD3X/GpI/8AVJ/uiiT/AFT/AO6aAG+a/wDzwk/Nf8aKkooAjcvtGVXqP4vf6U7L/wB1f++v/rUSfdH+8P506gCNi+5PlXr/AHvY+1Oy/wDdX/vr/wCtQ33k/wB7+hp1AELF/tSfKv3G/i919qky/wDdX/vr/wCtTW/4+k/3G/mtSUARgv5h+Veg/i+vtTsv/dX/AL6/+tQP9a3+6P606gCNS+5/lXr/AHvYe1Oy/wDdX/vr/wCtQv3n/wB7+gp1AEaF9pwq9T/F7/SnZf8Aur/31/8AWoj+6f8AeP8AOnUARxl/LXCr0H8X/wBam3Bf7LLlV+4f4vb6VJH/AKpP90U25/49Zf8AcP8AKgB2X/ur/wB9f/Wprl9oyq9R/F7/AEqSmyfdH+8P50AGX/ur/wB9f/Wprl9oyq9R/F7/AEqSmyfdH+8P50AGX/ur/wB9f/WprF9yfKvX+97H2qSmt95P97+hoAMv/dX/AL6/+tTSX8wfKvQ/xfT2qSmn/Wr/ALp/pQAZf+6v/fX/ANao1L/an+VfuL/F7t7VNUa/8fT/AO4v82oAdl/7q/8AfX/1qx/DJf8Asy5wF/5CN53/AOnmT2raqtY2cVjFLFBu2tPJKdxz8zsXb9WNAE+X/ur/AN9f/WpqF9pwq9T/ABe/0qSmx/dP+8f50AGX/ur/AN9f/WpsZfy1wq9B/F/9apKbH/qk/wB0UANkL+W2VXof4v8A61Oy/wDdX/vr/wCtRJ/qn/3TTqAIZy/ljKr99f4v9oe1SZf+6v8A31/9amz/AOrH++n/AKEKkoAjYvuT5V6/3vY+1Oy/91f++v8A61VdT1CDTLZZ7ncQXCIkalnkc5AVQOpJ/wATwCaq/a9edQ0ekWSA5+WfUGVhz3CxMPfr3oA0iX8wfKvQ/wAX09qdl/7q/wDfX/1qhtGu5Iw9/DDBKMjZBMZVxxzkqv8AKobybVknxYWVlPFj70948TZ+gib+dAFoF/MPyr0H8X19qdl/7q/99f8A1qyvP8Q7if7L0zkAf8hKT/4xWnbtO1uhu444piPnSKQuo+jEAn8hQAKX3P8AKvX+97D2p2X/ALq/99f/AFqz55daS5kFpYWEsOfkeW+dGIwOqiEgfmaj+0eIf+gXpn/gyk/+MUAaEBfyzhV++38X+0favPfjhoL6z8OZrmOPM2mSLcrtbkp91x06Ybd/wGvQ7ZZVt0+0KiynLOqMWVSTkgEgZHPXA+lZOpR6zqFnd2Mul6bJbXEbwtu1BwWRgQcjyCOh6c/jQBwfwB0A6d4Jm1Z4087U5iVYghvLT5QPz3Hj1r1OQv5bZVeh/i/+tXO6Bp+t+H/D1jpNrpeleXZwLFuXUJF3EDlseQepyeveukkDGJggBYqcZOBmgAy/91f++v8A61NcvtGVXqP4vf6Vm/aPEP8A0C9M/wDBlJ/8YpyTa68saz6dpyRb13smoOzBc8kAwjJ9sj60AaWX/ur/AN9f/WprF9yfKvX+97H2pZzKsDm2RJJQPkWRyik+5AOPyNZZn8Qkqf7L0zg5/wCQlJ/8YoA1cv8A3V/76/8ArVHKX8yH5V+//e/2T7VUt59aa4QXen2EUJPzvFfO7D6KYQD+YqxffahCr2EUM0yNkJNKY1IwR94Kx7+lAE+X/ur/AN9f/WppL+YPlXof4vp7Vm/avECkF9K08rkbvL1Fy2M84BhAP5irVlqEN+8vlBkkt3MU8TjDRPhW2nt91lORkEEGgC1l/wC6v/fX/wBamgv5h+Veg/i+vtUlNH+tb/dH9aADL/3V/wC+v/rU1S+5/lXr/e9h7VJTV+8/+9/QUAGX/ur/AN9f/WpqF9pwq9T/ABe/0qSmx/dP+8f50AZPhUv/AMIbo3yr/wAeEH8X/TNfatK3L/ZYsKv3B/F7fSs3w5LHBpcOkuyrd6dEkEkRPO1RtVxkDKsBkEDHUdQa1Lb/AI9Yv9wfyoAJC/ltlV6H+L/61Oy/91f++v8A61En+qf/AHTTqAI3L7RlV6j+L3+lOy/91f8Avr/61En3R/vD+dOoAqzWqy31tdOgMsIdUO84G4DPb2qxl/7q/wDfX/1qxdZ1KPTde0prq5MFu6zh8k7ScLjP61N/wlGif9BKH8zQBZv777DGsjR+Y7kRxRI3zSOxAAH+PYAk8Crtc7HqlprPi+zisrmOeKztZZ2C84kYqinkcYUyDr/FXRUAFFFFABVa+vBYW3nvE8kYYBymP3a93P8AsjvjPrVmmSxJPC8Uyh45FKsp7g8EUAIhfacKvU/xe/0p2X/ur/31/wDWrL8MPI/hmyE0jSyRIYXkbq5RihY49due30Fa1AEcZfy1wq9B/F/9aiQv5bZVeh/i/wDrU6P/AFSf7ook/wBU/wDumgAy/wDdX/vr/wCtRTqKAI3D7Rll6j+H3+tOw/8AeX/vn/69R3c8VtayT3DrHFEN7uxwFUckn8KzhrlzJ81toGqTREZWTEMW7kj7skiuOmeVHUUAabB9yfMvX+77H3p2H/vL/wB8/wD16r2dzNdpvnsLiyKt9ydoyWGOo2MwqK71G6t7gxw6NfXagD97C8AU/wDfcin9KALLB/tSfMv3G/h9196kw/8AeX/vn/69ZJ1W/Myv/wAI5qeApH+stu+P+m3tWrE7SQo7xtEzKCY3I3IfQ4JGR7EigBAH8w/MvQfw/X3p2H/vL/3z/wDXrLOrXyytjw7qTDoCJLbnr/02qW31O7nuEjk0O/t1Y8yyvblV+u2Un8gaALqh9z/MvX+77D3p2H/vL/3z/wDXqG5mktoXlitZrttwxFCUDHp/fZR+tUf7Yvv+hc1P/v5a/wDx6gDSQPtOGXqf4ff607D/AN5f++f/AK9VNPvLi5LrcaZdWW3kGdoiGye2x2/XFF7fXFrIqwaVd3oIyXgeEBfY73U/lQBZjD+WuGXoP4f/AK9NuA/2WXLL9w/w+31rOTV75UUHw5qfAx/rLb/49V+OSS708tJbSWsjqw8mYqWXqOSpI9+CetAE2H/vL/3z/wDXprh9oyy9R/D7/WqM+qXcU7xx6FqE6qcCSOS3Ct7jdKD+YFNt9aS4uxZ3VpdafcnDRx3Sr+9AIyVZGZTjuM5HpigDSw/95f8Avn/69NcPtGWXqP4ff61JTZPuj/eH86ADD/3l/wC+f/r01g+5PmXr/d9j71JTW+8n+9/Q0AGH/vL/AN8//XppD+YPmXof4fp71JTT/rV/3T/SgAw/95f++f8A69RqH+1P8y/cX+H3b3qao1/4+n/3F/m1ADsP/eX/AL5/+vWZoNxcXVjPJPKHdb26jBK/wrO6qPwAA/CtWsfwz/yDLn/sI3n/AKUyUAa2H/vL/wB8/wD16agfacMvU/w+/wBakpsf3T/vH+dABh/7y/8AfP8A9emxh/LXDL0H8P8A9epKbH/qk/3RQA2QP5bZZeh/h/8Ar07D/wB5f++f/r0Sf6p/9006gCGcP5Yyy/fX+H/aHvUmH/vL/wB8/wD16bP/AKsf76f+hCpKAMfU1La9oe85CzysAMjnyXGevoT+dbFRyNAJ4hKYxKxIi3Ebjxzt/D0qSgAooooAKKKKACiqepatY6PbpPqVwsEbuI1JBO5iCcAD2B/Kk0zWdN1mN30u9huhGdsgjfLRn0YdVPsaALtFMmmit4WluJEijX7zuwUD8TT6ACiq1nqFrftci0l8w2sxgm+Uja4AJHI54I5HFWaACiiigAooooAKKKKACsW3Xb421Hy9q7rC2ZuOp3zDP1wAM+wraqANB9vZVMf2gRAuARvC5O3PfGQ2Px96AJcP/eX/AL5/+vTQH8w/MvQfw/X3qSmj/Wt/uj+tABh/7y/98/8A16aofc/zL1/u+w96kpq/ef8A3v6CgAw/95f++f8A69NQPtOGXqf4ff61JTY/un/eP86AKV/o9rqZRruJTJH9yaMtHInOfldSGHTsao23h1Bax7NR1JV2ggG9lbHtktmt2o7b/j1i/wBwfyoAyX8PqI2zqWo9D/y9v/jTv+EeH/QS1H/wLk/xrWk/1T/7pp1AGK/h9dvOpaj1H/L2/r9ad/wjw/6CWo/+Bcn+Na0n3R/vD+dOoA5yTw5JH4g0y8jvLyRIPM3GS5ZsEgYGCeQcHP4V0OH/ALy/98//AF6qXN95OrWVn5eftAkbfu+7tA7d87v0q7QBkX5ktNf068faYHSS1kKocqzshQnAPGV29uXFa9QXdrBexNbXUaywyIQyN35H+c1PQAUUisGUMpBUjIIPWloAKrajeppum3F5IrOIYy4RfvOQOFHuTgAepFWajntobkILiJZBG4kUMMgMOQfqDyPQ80AUdCtLix0K0t7p0Nwkf74heDIeXIxj+IntWhh/7y/98/8A16I/un/eP86dQBHGH8tcMvQfw/8A16JA/ltll6H+H/69Oj/1Sf7ook/1T/7poAMP/eX/AL5/+vRTqKAMfxEhaztIzI2yS/tw4wPmAlU46dOBWxUVxaw3SxidN4jkWReSMMpyDx71LQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVkeJAFsbScD95DqFr5bAkFS8yxt+auw/Gteobu1hu4VjuE3osscgGSPmRwynj0ZQaAJNp/vt+n+FNdTtHzt1Hp61JTZPuj/eH86ADaf77fp/hTWU7k+duvt6GpKa33k/3v6GgA2n++36f4U0qfMHzt0Pp7VJTT/rV/wB0/wBKADaf77fp/hUaqftT/O33F9PVqmqNf+Pp/wDcX+bUAO2n++36f4VFA6TB2hnDqHKFkII3Dgj6ggg+4qesfwz/AMgy5/7CN5/6UyUAa20/32/T/Cmop2n526n09akpsf3T/vH+dABtP99v0/wpsany1+dhwPSpKbH/AKpP90UANkU+W3zseD6U7af77fp/hRJ/qn/3TTqAIZ1Plj52++vp/eFSbT/fb9P8KbP/AKsf76f+hCpKAMjUgRr+i5Yn97L1x/zyateq1xZJcXlpcszBrV2ZQOjblK8/nVmgAooooAKKKKAOc8X3UFi2h3V3KsMEWpq0kjnCqPJlGSfqRXOa1qkNzq+qeINEinuLS10Z7a4ubctEJpHkQoFkxzsUOSwB2hvXivRqKAPGb+5hNnrtjFewy2LWdndRfZbmV4SVuCJnjdmO4BSu4qcdM85q74k1mM31/daddxwyWM1t9mP22R5XgAiZpUQHaISrHLHcGw2T0Fes0UAeTvLZx3WszWV5Iuuya8jafElwwMsZaHcUTOHQqW3HBGByeBh7ayD4ot76O5W2kTW2gu4nu5Hmjh3PGPNUkJHGx27Vx3Ug5ya9VooA8rttSmtri7g0S9GsapLa3jwzQ3Uonjk2syLcWz5C87VU/LzgBQDWn4FLSazE1rq9rcRixIureCeeZi+U2tKXJCSD5hg4Y5PHy8eg0UAFFFFABRRRQAVjQjPja/wSP+Jda9P+uk9bNVEskj1qW+DMXmt0hK9gEZyD/wCRD+QoAs7T/fb9P8KaFPmH526D096kpo/1rf7o/rQAbT/fb9P8Kaqnc/zt19vQVJTV+8/+9/QUAG0/32/T/Cmop2n526n09akpsf3T/vH+dABtP99v0/wqO3U/ZYvnYfIPT0qao7b/AI9Yv9wfyoAJFPlt87Hg+lO2n++36f4USf6p/wDdNOoAjdTtHzt1Hp607af77fp/hRJ90f7w/nTqAKs1lHJfW9y7MZYQ6oc9AwGf/QRWJ4d8TPrepXEEieVE8ZuLGQEH7RCJXjLf+Oo30kWtPxDa3t9oVzaaVOlvdXCGJJnziPcMFuO4BJHvisSDwJDpF/pV5od3eb7BxGY72+lmj+zldroqsSF6IRgDlAOlAFO28W62nhu38R3tlazaayGS4FvIVlgjzhnwwIYDGSMjgfhV86zr93rGtW+j29jPFpkqRKk0rRtMWhjk4YKQPv46dqz7Twrr7eGbfw1fy6dDp/lmK4lgd5JZYy2WUAqoXP3c88E1o/2T4gsdZ1q40c6aItSmjlSS4d90O2COPGwLg8oT94dRQBRiTT38JXGv6Il1pphspJltoZzGiOvmbkaNTsJDAjp1FVy2vaabD/hIdSuZtNvp44lntLhEeB3PyBh5YYqSQMhyRxx3rdj8OG18HXWgWk3mSvYPD58vy75HD7nbHTLMScetQvoms6tJp8GtGwgsLKaO48q2Z5XmePlAWZVAGcE8HO33oAg03U/D1tqDm1ivHkaSSKK/mhkl891X5o0mfJY/IcDODt4zV7UfFNjb6BHf297tF3Yy3ltI0JkURpHvLsowdoBGRkE5AHJrH0XwVc6dqMCS2+nTW1rcGRbxppjMyA7kXyhhQy/KN245x92p5PBVy2m69Zi5iMd1ZXFnpobP+jpMXZg3HTcyDjPyxr9KANGPxXpyTi2nmmEilFnlSBjDC74Kq8mNqk7l4J/iHrU9v4lsLnUhaRvc7XkaGK5aAiCWRc5VZMYJ4I9CVIGcVn6boetaTeXcenT2gs726S5llkLGWJgEWRFXbhgwj4YkYz0OKz9E8DXGk6hBE9tp8tpb3TTJePPM07ruLopjACKykgbtxBAztyaAO2jU+WvzsOB6USKfLb52PB9KdH/qk/3RRJ/qn/3TQAbT/fb9P8KKdRQBk66NkViUZgft8A+8ehcCtaqOrWct5FbCHbmK6ilbJx8qsCf0q9QAUUUUAFYfiHVLy0vNJ07TXihuNTuWi8+ZN6xqkbSHC5GSduAM9ye1blU9T0mz1i3SG/iZ1jkEsbJI0bxuM4ZXUhlPJ5B70Aczqmu6rbNBp8eoWpvlillme0tGn3KjhVZlyFjH94FjzkA8ZrOi8V6/rVjbTadPaWDPoMeqSb7cyguS2UHzDAJA55wM9zkdTL4R0OZbdXsBi3DqoWRxuDtucPg/vAW5IbIJ560+08LaPYqy2toUVrY2mPNcgQkk7Bk8DLHp0oA5W88Y61o8c814bW5NzpsV7bRrCUFuzzJGEY7iXUeYpJ4J2npkAT3finXbGxu3NnKQslmtvPe2hhBMk6RSIQCR0bcD1+YjB25PUS+HdKmI86zWQC0+xYdmI8nIO3BOOoHPX3qCHwlo0NvJD9leUStEzvcXEk0jeWweMF3YthWAIGcUAct4i8U63oEWoFb+C6fSbdJrjbp7BJGO5irPuAjyu0KAWPQknOK9CrH1Dwpouq3M8+oWXntcJ5cyNK+yQbSoLJnaSAThsZHYitWGFLe3jhj3bI1CLuYscAYGSeSfc80APooooAKx/FNz9j0RZy7oq3tpuMYJO03MYPA56E1sVn63aS3lhHFAAWW7tpTk4+VJ0dv0U0AMt9b066uEggkuGkc4UGGUfqRgVZvriCytTPcNIIwyglVZ8ZPoMmrVNk+6P94fzoAyf+Ej0n/ntcf+A83/AMTVmz1C01Fj9keVthG7ejpjIOPvAenar9Nb7yf739DQBSvdTstPkVLqSVWYZARJH4/4CDVQ+I9K8wfvrjof+Xeb2/2a2qaf9av+6f6UARWs0N5bLPbtIY3zgsGU8HHQ4Pas6XXNNt9QmillmDIAp2wytzk9wK2KjX/j6f8A3F/m1AGPPrT3IEGhWV3c3Ei/LNNE8UEXUBnZ9u4Aj7qZb2AOav6bp8en2KWqO7+X96Rm+aRjyzn3ZiSfc1dpq/ef/e/oKADyx6t/30aaiAqeW6n+I+tSU2P7p/3j/OgA8serf99GmxoDGvLdB/Eakpsf+qT/AHRQA2RAI25bof4jTvLHq3/fRok/1T/7pp1AEM6ARjlvvr/Ef7wqTyx6t/30abP/AKsf76f+hCpKAM2+mkh1jSoo5GEc0kgkXOdwEbEfrWlWbrFrcTC0ubFUe6tJjLHHI21ZMoylCwBxkMT06gVCmuXOMTaDqcTjquInHTsVcg0AbFFV7O6N3Dva3mt2yR5c6gNx34JHeoLvVHtbgxLpt9cAAfPCilf1YUAX6Kyf7dkzj+xdTz/1zT/4utK3mNxbpKYpISw+5KMMv1oAkorMm1h4riSJdK1CYI23fHGu1vplhTP7cl/6Aup/9+0/+LoA1qKjgmE8CShGTcMlHGGU9wfcVnNrcgYgaPqTAHqI05/8eoA1aKyRrshAI0XU8H/pmn/xdartsRmwTtGcDvQAtFZP9uS/9AXU/wDv2n/xdPi1l5JkRtJ1GMOwXe8abVycZPzdKANOimTymGB5FieUqM7I8bm9hkisw67IMZ0XU+f+maf/ABdAGtRWfa6q9zcrE2mX0AbP7yVFCjjPOGNWby6+yQeYIJrgk4EcIBY/mRQBPWXFPLJ4svLZnbyY7GCREzjDM8wJ/EKv5U3+25yD5eh6m7AEhdsS7uOmWcD8yKXSrO5W9uNR1FVju7tVXykcsIY0+6me5yzEkActjnGSAaflj1b/AL6NNCDzDy3QfxH3qSmj/Wt/uj+tAB5Y9W/76NNVBufluv8AePoKkpq/ef8A3v6CgA8serf99GmogKnlup/iPrUlNj+6f94/zoAPLHq3/fRqO3QG1i5b7g/iPpU1R23/AB6xf7g/lQASIBG3LdD/ABGneWPVv++jRJ/qn/3TTqAI3QBRy3UfxH1p3lj1b/vo0SfdH+8P506gCNkG5OW6/wB4+hp3lj1b/vo0N95P97+hp1AEZQeYOW6H+I+1O8serf8AfRoP+tX/AHT/AEp1AEKoPtT8t9xf4j6tUnlj1b/vo01f+Pp/9xf5tUlAEaoNz8t1/vH0FO8serf99GhfvP8A739BTqAI0QFTy3U/xH1p3lj1b/vo0R/dP+8f506gCONAY15boP4jRIgEbct0P8Rp0f8Aqk/3RRJ/qn/3TQAeWPVv++jRTqKAKN9cLpy27hHkMtxHDgynjccZ75xV6snxLuj0gXSRvKLOeK5eONdzMiOC20dztyQO5GO9aFpeW1/bJcWU8c8LjKvGwYH8qAJqKKKACiiigAooooAKKKKACiiigAooooAKp6refYbNJTGZN9xBDgNtx5kqx5z7bs/hVysTWp4b65ttJt5ka5F1BPMikMYo45Fkywzxkqqj/e6YBIANfyE9ZP8Av43+NNeBAo5k6j/lo3r9ampsn3R/vD+dADfIT1k/7+N/jTWgTcnMnX/no3ofepqa33k/3v6GgBvkJ6yf9/G/xppgTzBzJ0P/AC0b296mpp/1q/7p/pQA3yE9ZP8Av43+NRiFftLjL/cX/lo3qferFRr/AMfT/wC4v82oAPIT1k/7+N/jTVgTc/MnX/no3oPepqav3n/3v6CgBvkJ6yf9/G/xpqQIVPMnU/8ALRvX61NTY/un/eP86AG+QnrJ/wB/G/xpscCGNeZOg/5aN/jU1Nj/ANUn+6KAI5IEEbcydD/y0b/GneQnrJ/38b/GnSf6p/8AdNOoArzQqIxy/wB9esjf3h71J5Cesn/fxv8AGif/AFY/30/9CFSUAQtAm5OZOv8Az0b0PvTvIT1k/wC/jf405vvJ/vf0NOoAhMCeYOZOh/5aN7e9O8hPWT/v43+NOP8ArV/3T/SnUAQiBPMPMnQf8tG9/eneQnrJ/wB/G/xpw/1rf7o/rTqAIVgTc/MnX/no3oPeneQnrJ/38b/GnL95/wDe/oKdQBXhhUxnl/vt0kb+8fepPIT1k/7+N/jRB/qz/vv/AOhGpKAIY4EMa8ydB/y0b/GiSBBG3MnQ/wDLRv8AGpI/9Un+6KJP9U/+6aAG+QnrJ/38b/GmvAgUcydR/wAtG9frU1Nk+6P94fzoAb5Cesn/AH8b/GmtAm5OZOv/AD0b0PvU1Nb7yf739DQA3yE9ZP8Av43+NRyQqJIuX5f/AJ6N/dPvVio5f9ZD/vn/ANBNAB5Cesn/AH8b/GmmBPMHMnQ/8tG9vepqaf8AWr/un+lADfIT1k/7+N/jTRAnmHmToP8Alo3v71NTR/rW/wB0f1oAb5Cesn/fxv8AGmrAm5+ZOv8Az0b0HvU1NX7z/wC9/QUAN8hPWT/v43+NNSBCp5k6n/lo3r9ampsf3T/vH+dADfIT1k/7+N/jUdvCptoiS/KDpI3p9asVHbf8esX+4P5UANkgQRtzJ0P/AC0b/GneQnrJ/wB/G/xp0n+qf/dNOoAheBAo5k6j/lo3r9ad5Cesn/fxv8adJ90f7w/nTqAIWgTcnMnX/no3ofeneQnrJ/38b/GnN95P97+hp1AEJgTzBzJ0P/LRvb3p3kJ6yf8Afxv8acf9av8Aun+lOoAriFftLjL/AHF/5aN6n3qTyE9ZP+/jf40L/wAfT/7i/wA2qSgCFYE3PzJ1/wCejeg96d5Cesn/AH8b/GnL95/97+gp1AEKQIVPMnU/8tG9frTvIT1k/wC/jf406P7p/wB4/wA6dQBDHAhjXmToP+Wjf40SQII25k6H/lo3+NSR/wCqT/dFEn+qf/dNADfIT1k/7+N/jRUlFAEbxoFGEXqO3vVGfw5ol1cPPdaNp80znLSSWqMzfUkc1oSfdH+8P506gCna6ZY6aoj06yt7RHfLLBEqBjjqQBTLvQtI1Cfzr/S7K5lxt8ya3R2x6ZIq633k/wB7+hp1AGKfC3h/7Sg/sLTMbG4+xx+o9q1ooIYIUigiSOONQqIigKoHAAA6Chv+PpP9xv5rUlAGQfC+gPM5bQ9NYkAkm0j5OT7VLD4b0O2nSa30bT4pUO5JI7VFZT6ggcVoD/Wt/uj+tOoArXFla38MkF9bQ3MJYExzRh1PA7HiqX/CK+Hv+gDpn/gHH/hWov3n/wB7+gp1AFHT9H03Tt7afp1pas5IYwQKhYAnGcDmnXuj6ZqTI2o6daXZQEKZ4Ffb9MjirUf3T/vH+dOoAx4/Cvh4xrnQdM6D/lzj/wAKvC0trHTWgsreK3hRG2RwoEVep4A6cnNWI/8AVJ/uim3P/HrL/uH+VAFGfw3odzO81zo2nyyucvJJaozMfUkjmp7fTrLT7fybCzt7aLeDshiVFySMnAFW6bJ90f7w/nQAeWn9xfyprxoFGEXqO3vUlNk+6P8AeH86ADy0/uL+VNaNNyfIvX09jUlNb7yf739DQAeWn9xfyppjTzB8i9D2+lSU0/61f90/0oAPLT+4v5VGsafan+RfuL292qao1/4+n/3F/m1ADvLT+4v5U1Y03P8AIvX09hUlNX7z/wC9/QUAHlp/cX8qakaFTlF6nt71JTY/un/eP86ADy0/uL+VNjjQxrlF6DtUlNj/ANUn+6KAGyRoI2wi9D2p3lp/cX8qJP8AVP8A7pp1AEM8aCMYRfvr2/2hUnlp/cX8qbP/AKsf76f+hCpKAI2jTcnyL19PY07y0/uL+VDfeT/e/oadQBGY08wfIvQ9vpTvLT+4v5UH/Wr/ALp/pTqAIxGnmH5F6Dt9ad5af3F/Kgf61v8AdH9adQBGsabn+Revp7CneWn9xfyoX7z/AO9/QU6gCGCNDGcov327f7RqTy0/uL+VNg/1Z/33/wDQjUlAEccaGNcovQdqJI0EbYReh7U6P/VJ/uiiT/VP/umgA8tP7i/lTXjQKMIvUdvepKbJ90f7w/nQAeWn9xfyprRpuT5F6+nsakprfeT/AHv6GgA8tP7i/lUcsaeZD8i/f9P9k1NUcv8ArIf98/8AoJoAd5af3F/KmmNPMHyL0Pb6VJTT/rV/3T/SgA8tP7i/lTRGnmH5F6Dt9akpo/1rf7o/rQAeWn9xfypqxpuf5F6+nsKkpq/ef/e/oKADy0/uL+VNSNCpyi9T296kpsf3T/vH+dAB5af3F/Ko7eNDaxZRfuDt7VNUdt/x6xf7g/lQASRoI2wi9D2p3lp/cX8qJP8AVP8A7pp1AEbxoFGEXqO3vTvLT+4v5USfdH+8P506gCNo03J8i9fT2NO8tP7i/lQ33k/3v6GnUARmNPMHyL0Pb6U7y0/uL+VB/wBav+6f6U6gCFY0+1P8i/cXt7tUnlp/cX8qav8Ax9P/ALi/zapKAI1jTc/yL19PYU7y0/uL+VC/ef8A3v6CnUARpGhU5Rep7e9O8tP7i/lRH90/7x/nTqAI440Ma5Reg7USRoI2wi9D2p0f+qT/AHRRJ/qn/wB00AHlp/cX8qKdRQB//9k=)

Figure 8‑5: System diagram with three attached cameras

## User Diagram

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGNhbGx1bSB0ZXJyaWxsAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNDMAAJKSAAIAAAADNDMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjE6MTA6MTMgMjE6MzU6MTAAMjAyMToxMDoxMyAyMTozNToxMAAAAGMAYQBsAGwAdQBtACAAdABlAHIAcgBpAGwAbAAAAP/hCyFodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIxLTEwLTEzVDIxOjM1OjEwLjQzMTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5jYWxsdW0gdGVycmlsbDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAIMApUDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6LWdNz8Sdf+ebeg9qd56ekn/ftv8ACnL95/8Ae/oKdQBXhmURnh/vt0jb+8fapPPT0k/79t/hRB/qz/vv/wChGpKAIY50Ea8SdB/yzb/CiSdDG3EnQ/8ALNv8Kkj/ANUn+6KJP9U/+6aAG+enpJ/37b/CmyToY24k6H/lm3+FTU2T/VP/ALpoAb56ekn/AH7b/CmvOhUcSdR/yzb1+lTU2T7o/wB4fzoAb56ekn/ftv8ACo5JlMkXD8P/AM82/un2qxUcv+sh/wB8/wDoJoAPPT0k/wC/bf4U0zp5g4k6H/lm3t7VNTT/AK1f90/0oAb56ekn/ftv8KaJ08w8SdB/yzb39qmpo/1rf7o/rQA3z09JP+/bf4U1Z03PxJ1/55t6D2qamr95/wDe/oKAG+enpJ/37b/CmpOgU8SdT/yzb1+lTU2P7p/3j/OgBvnp6Sf9+2/wqO3mUW0QIfhB0jb0+lWKjtv+PWL/AHB/KgBsk6GNuJOh/wCWbf4U7z09JP8Av23+FOk/1T/7pp1AELzoVHEnUf8ALNvX6U7z09JP+/bf4U6T7o/3h/OnUAQtOm5OJOv/ADzb0PtTvPT0k/79t/hTm+8n+9/Q06gCEzp5g4k6H/lm3t7U7z09JP8Av23+FOP+tX/dP9KdQBXEy/aXOH+4v/LNvU+1SeenpJ/37b/Chf8Aj6f/AHF/m1SUAQrOm5+JOv8Azzb0HtTvPT0k/wC/bf4U5fvP/vf0FOoAhSdAp4k6n/lm3r9Kd56ekn/ftv8ACnR/dP8AvH+dOoAhjnQRrxJ0H/LNv8KJJ0MbcSdD/wAs2/wqSP8A1Sf7ook/1T/7poAb56ekn/ftv8KjmmUxjh/vr1jb+8ParFRz/wCrH++n/oQoAPPT0k/79t/hTXnQqOJOo/5Zt6/SpqbJ90f7w/nQA3z09JP+/bf4U1p03JxJ1/55t6H2qamt95P97+hoAb56ekn/AH7b/CmmdPMHEnQ/8s29vapqaf8AWr/un+lADfPT0k/79t/hTROnmHiToP8Alm3v7VNTR/rW/wB0f1oAb56ekn/ftv8ACo45lEkvD8v/AM82/uj2qxUcX+sm/wB8f+gigA89PST/AL9t/hTUnQKeJOp/5Zt6/SpqbH90/wC8f50AN89PST/v23+FNjnQRrxJ0H/LNv8ACpqbH/qk/wB0UARyToY24k6H/lm3+FO89PST/v23+FOk/wBU/wDumnUAQvOhUcSdR/yzb1+lO89PST/v23+FOk+6P94fzp1AFeSZTJFw/D/882/un2qTz09JP+/bf4US/wCsh/3z/wCgmpKAITOnmDiTof8Alm3t7U7z09JP+/bf4U4/61f90/0p1AEInTzDxJ0H/LNvf2p3np6Sf9+2/wAKcP8AWt/uj+tOoAhWdNz8Sdf+ebeg9qd56ekn/ftv8Kcv3n/3v6CnUAQpOgU8SdT/AMs29fpTvPT0k/79t/hTo/un/eP86dQBXt5lFtECH4QdI29PpTpJ0MbcSdD/AMs2/wAKdbf8esX+4P5U6T/VP/umgBvnp6Sf9+2/wprzoVHEnUf8s29fpU1Nk+6P94fzoAb56ekn/ftv8Ka06bk4k6/8829D7VNTW+8n+9/Q0AN89PST/v23+FNadNycSdf+ebeh9qmprfeT/e/oaAG+enpJ/wB+2/wqMzL9pQ4f7jf8s29R7VYqNv8Aj6T/AHG/mtAB56ekn/ftv8KaJ08w8SdB/wAs29/apqaP9a3+6P60AN89PST/AL9t/hTVnTc/EnX/AJ5t6D2qamr95/8Ae/oKAG+enpJ/37b/AAoqSigCNWO5/kbr7egp24/3G/T/ABoX7z/739BTqAMp9ait7r7FHbXV1cks5jgi3BQWP3nOFX6EgnBxmli1a8kmRH8P6jErMAZHktsKPU4lJwPYE1H4ZUf2fdynmSXUbsuxOS22d0XP0VFUewArYoAgeZ4rQvHbyzsqZEcZUM/sNxA/Mis6TWL7y2/4pvUxwf8Alpa//Hq1o/8AVJ/uiiT/AFT/AO6aAKNrqV1cXAjl0S+tVIP72Z4Co/75lY/pUt/dS29ozw2NxdN08uFow31+dlH61bpsn+qf/dNAGX/bN9/0Leqf9/LX/wCPVNbX9zdMVn0m8sgMEPO8JDcjgbJGNaFNk+6P94fzoAq3t9cWuzyNLu73dnPkNENn13uvX2z0qjJrF95kX/FOamPn/wCelrz8p/6bVtVHL/rIf98/+gmgCGzu5rmEvNp9xZsGwI52jJI9fkdhj8c8VBeajdW12qQ6NfXa7M+ZC8AX6fPIp/StGmn/AFq/7p/pQBl/2zff9C3qn/fy1/8Aj1XreeSZBJJay27MozFIULLyeu1iPyJqxTR/rW/3R/WgDPuNUu4bh449C1C4VTxLHJbhW+m6UH8wKhXWL7c//FN6n1/56WvoP+m1bFNX7z/739BQA1JGeNWaF0JAJViuV9jg4rLTWL7af+Kb1Pqf+Wlr6/8AXatimx/dP+8f50AZiavevIqt4e1JASAWaS2wvucTZq2szxaerx28s7LGCI4yoZ+Og3ED8yKtVHbf8esX+4P5UAZcmsX3lt/xTepjg/8ALS1/+PVPbandz3Cxy6Hf2yNnMsr25VeO+2Un24FX5P8AVP8A7pp1AFW9uZbe2MkVlPdMGXEcTIGPP+0wH61T/tm+/wChb1T/AL+Wv/x6tST7o/3h/OnUAZ9rf3N1MFn0m8swvIad4SG46DZIx/Opb29ntVQwabdXhY8iBoht+u91/TNWW+8n+9/Q06gDHOsX3mD/AIpvU+h/5aWvt/02q7ZXs90rmfTbqzKngTtEd302O364qyf9av8Aun+lOoAzLrULm2v2WDSLy8BiUl4HhAHLcfPIp/Smf2zff9C3qn/fy1/+PVpL/wAfT/7i/wA2qSgCrZ3MtxCZJbKe1YtzFKyFhx/ssR+tV7jVLuG4eOPQtQuFU8SxyW4VvpulB/MCtBfvP/vf0FOoAx01i+2n/im9T6n/AJaWvr/12rUSRnjVmhdCQCVYrlfY4OKdH90/7x/nTqAMn+171PlXw9qUgXgOslthvcZmB/MUjavespB8O6moIwWMltge/E1asf8Aqk/3RUYninjmEMqSGMlHCMDsbGcH0PI496AHPIyRsywu5AJCqVy3sMnFZM2sXxjH/FOamPnX/lpa/wB4f9Nq2qjn/wBWP99P/QhQBRt9Uu5rhI5NC1C3VjzLJJblV+u2Un8gas3lxJBatJFaTXLKVxFEUDNyOm5gPzNWabJ90f7w/nQBl/2zff8AQt6p/wB/LX/49UtrqFzdXASfSL2zUAkPO8JBPp8kjHPfpjitGmt95P8Ae/oaAK95eT2satBp1zeEnBWBogV9zvdRVE6xfeYP+Kb1Pof+Wlr7f9Nq2Kaf9av+6f6UAVrK9nulcz6bdWZU8Cdoju+mx2/XFRXd/c2txtg0m8vAyAloHhAXk8HfIp/KtCmj/Wt/uj+tAGX/AGzff9C3qn/fy1/+PVZsLmW4SaSaxuLVvMx5czRlvujn5GYfrV2o4v8AWTf74/8AQRQBSudTu4Lho4tDv7lFxiWJ7cK3HbdKD7cioE1i+2n/AIpvU+p/5aWvr/12rYpsf3T/ALx/nQAyGZ5YUd7aWFmGTHIVLL7HaSPyJrO/te9T5V8PalIF4DrJbYb3GZgfzFa1Nj/1Sf7ooAyZNYvvLb/im9THB/5aWv8A8erVZ2CkiJ2IHQEc/rSyf6p/9006gDHfWL7aP+Kb1PqP+Wlr6/8AXapYdVvJZkR9A1GFWODJJJblV9ztlJ/IGtGT7o/3h/OnUAVbyeSGNJI7WWdlbIijKBm+U8DcwH5kVT/tm+/6FvVP+/lr/wDHq0pf9ZD/AL5/9BNSUAZ1rqN1c3YSbRr60XYT5kzwFe3HySMf0qe8u5raEPDp9xeMWwY4GjBA9fndRj8c81YP+tX/AHT/AEp1AGONYvvMP/FN6n0H/LS19/8AptVyyvri63+fpd3ZbcY89ojv+mx26e+OtWh/rW/3R/WnUAULq+uLWTEGlXd6GOSYHhG3gcHfIv6ZqsfEIgOdS0u/0+LIzNOsbRr15Zo3YKBjktgcitZfvP8A739BRJGksbRyqro4KsrDIYHqCKAGox2n5G6n09aduP8Acb9P8ayvC27/AIRy3VmZ/LaSNS3XasjKP0ArXoAht2P2WL5GPyD09KdIx8tvkYcH0otv+PWL/cH8qdJ/qn/3TQAbj/cb9P8AGmux2j5G6j09akpsn3R/vD+dABuP9xv0/wAaazHcnyN19vQ1JTW+8n+9/Q0AG4/3G/T/ABprMdyfI3X29DUlNb7yf739DQAbj/cb9P8AGo2Y/ak+RvuN6eq1NUbf8fSf7jfzWgB24/3G/T/Gmhj5h+Rug9PepKaP9a3+6P60AG4/3G/T/Gmqx3P8jdfb0FSU1fvP/vf0FABuP9xv0/xop1FAEal9z/KvX+97D2p2X/ur/wB9f/WoX7z/AO9/QU6gCjpdr9itHij+YNcTykse7ys5HTsWIq5l/wC6v/fX/wBaqGh3Ul5p8sk2Ny3l1EMDHCTyIP0UVo0ARxl/LXCr0H8X/wBaiQv5bZVeh/i/+tTo/wDVJ/uiiT/VP/umgAy/91f++v8A61NkL+W2VXof4v8A61SU2T/VP/umgAy/91f++v8A61NcvtGVXqP4vf6VJTZPuj/eH86ADL/3V/76/wDrVHKX8yH5V+//AHv9k+1TVHL/AKyH/fP/AKCaAHZf+6v/AH1/9amkv5g+Veh/i+ntUlNP+tX/AHT/AEoAMv8A3V/76/8ArU0F/MPyr0H8X19qkpo/1rf7o/rQAZf+6v8A31/9amqX3P8AKvX+97D2qG+1Ox0yLzNQu4bdSCV8xwC2OwHUnkcD1FU4dcFxNiy03UbiNmGZfI8lVGcZ/elCRxngHIIIzQBqZf8Aur/31/8AWpqF9pwq9T/F7/Si4M4t3NosbzY+QSsVX8SAT+lZit4hUY8nTOpP+uk/+JoA1cv/AHV/76/+tUduX+yxYVfuD+L2+lQ2L6kWcalDaouBsa3lZs+xBUY+ufwqO4vptP8ALi/s28uY1jG6e3CMq9sbSwcnjsp60AXJC/ltlV6H+L/61Oy/91f++v8A61Z8evabct5C3SxXDr8tvcK0MpznHyOA38J7dq0qAI3L7RlV6j+L3+lOy/8AdX/vr/61En3R/vD+dOoAjYvuT5V6/wB72PtTsv8A3V/76/8ArUN95P8Ae/oadQBxvimeFfFemQ69cNa6O9rOQwuWhR7jcgVWZSDnaW2jPJz3ArlPFWqSy2lzHbvfLdW+kxS2DXNxKtzKSrESRxRhQWBA3s30IA6+tn/Wr/un+lOoA8rvmOq3HiLVUvJjLZ/YZbOWC6YJGzIhJCg7Wz6EEcn1OV1f7Xot5q2n6dPLFpkN5ZSXJnupXEUbo+8s5JYIXWPcc9Cx7mvT1/4+n/3F/m1SUAeYRNdXv2CGPUVn0+717aTp08wjCNaSl0WQ9ULYIKkgFiBjAxT1DURY66ZbeVrdrHWIIHX7bK7w2qvHGzOgwiQlSeSDkkEknOPWV+8/+9/QU6gDlPGpQadaG4v4bKNbkswuZZY4JsK3ySSJjaO43HBKjg1gw61f2OjWOs6Zayqt5FLpgtmnedDcK7CCUMwyUJDLuIyQyegr0eP7p/3j/OqV1pEF7qlre3Mkz/ZfmigLfug/I3lccsASAc8fXmgDz2/WPw5qEStqA1CW2igiitJrqeK5DBAGaEcrKWzuPy9SQW7CnI0umR3S2Uq26x+I3/tAzTsFWIK3kmXnPlkhRu6HAByBXrcf+qT/AHRRJ/qn/wB00AeaafHJe3mg2smoLeafcX12I/ss8yoYxDnYHOGdQ4Y5yRjjkCl0m3ns7rwvPHc3krz6jd2kplupHDQoJdikE4wPKj565yepNemVHP8A6sf76f8AoQoAdl/7q/8AfX/1qa5faMqvUfxe/wBKkpsn3R/vD+dABl/7q/8AfX/1qaxfcnyr1/vex9qkprfeT/e/oaADL/3V/wC+v/rU0l/MHyr0P8X09qkpp/1q/wC6f6UAGX/ur/31/wDWpoL+YflXoP4vr7VJTR/rW/3R/WgAy/8AdX/vr/61RxF/Mm+Vfv8A97/ZHtU1Rxf6yb/fH/oIoAdl/wC6v/fX/wBamoX2nCr1P8Xv9Kkpsf3T/vH+dABl/wC6v/fX/wBamxl/LXCr0H8X/wBapKbH/qk/3RQA2Qv5bZVeh/i/+tTsv/dX/vr/AOtRJ/qn/wB006gCNy+0ZVeo/i9/pTsv/dX/AL6/+tRJ90f7w/nTqAIZS/mQ/Kv3/wC9/sn2qTL/AN1f++v/AK1Nl/1kP++f/QTUlAEZL+YPlXof4vp7U7L/AN1f++v/AK1B/wBav+6f6U6gCMF/MPyr0H8X19qdl/7q/wDfX/1qB/rW/wB0f1p1AEal9z/KvX+97D2p2X/ur/31/wDWoX7z/wC9/QU6gCnp1oLCyFvBlkV3YF25yzlj29TVrL/3V/76/wDrVR0O7kvtKW4n272llB2jAwJGA/QVoUAQ25f7LFhV+4P4vb6U6Qv5bZVeh/i/+tRbf8esX+4P5U6T/VP/ALpoAMv/AHV/76/+tTXL7RlV6j+L3+lSU2T7o/3h/OgAy/8AdX/vr/61NYvuT5V6/wB72PtUlNb7yf739DQAZf8Aur/31/8AWprF9yfKvX+97H2qSmt95P8Ae/oaADL/AN1f++v/AK1RsX+1J8q/cb+L3X2qao2/4+k/3G/mtADsv/dX/vr/AOtTQX8w/KvQfxfX2qSmj/Wt/uj+tABl/wC6v/fX/wBamqX3P8q9f73sPapKav3n/wB7+goAMv8A3V/76/8ArUU6igCNQ+5/mXr/AHfYe9Ow/wDeX/vn/wCvQv3n/wB7+gp1AGN4aD/2TNhl/wCQhe/w/wDT1L71r4f+8v8A3z/9eoLC3itbd44F2qZpZCMk/M0jMx59SSas0ARxh/LXDL0H8P8A9eiQP5bZZeh/h/8Ar06P/VJ/uiiT/VP/ALpoAMP/AHl/75/+vTZA/ltll6H+H/69SU2T/VP/ALpoAMP/AHl/75/+vTXD7Rll6j+H3+tSU2T7o/3h/OgAw/8AeX/vn/69Ryh/Mh+Zfv8A93/ZPvU1Ry/6yH/fP/oJoAdh/wC8v/fP/wBemkP5g+Zeh/h+nvUlNI/eA9sH+lAFW+1COwQGZt8jg+XDFGWklIGSFUHJ/kO+Kbps19cq01/ZrZhgNkLSB5F5P39uVB6cAt9aLDS4rJ2mZ5Lm7kGJLiZtzEZztHZVz/CuB+PNXqAIVs7VLx7tLaFbmRQrzCMB2A6At1IqaiigAooooAKKKKAIbuztb+3MF9bQ3MLEExzRh1OPY8USRvFZmOxWJHRMRKwwgx0HHQduOlTUUAY8OtZu1sdTi+w3jEeWr8xz+vlv/F9MBvUCtbD/AN5f++f/AK9RXtjbajatbX0CTwt1RxnnsR6EdiORSWNq1nbCBrma5CnCPMQXC9gT/Fj1PJ7knmgCRg+5PmXr/d9j707D/wB5f++f/r0N95P97+hp1AEZD+YPmXof4fp707D/AN5f++f/AK9B/wBav+6f6U6gCFQ/2p/mX7i/w+7e9SYf+8v/AHz/APXpq/8AH0/+4v8ANqkoAjUPuf5l6/3fYe9Ow/8AeX/vn/69C/ef/e/oKdQBGgfacMvU/wAPv9adh/7y/wDfP/16I/un/eP86dQBHGH8tcMvQfw//XokD+W2WXof4f8A69Oj/wBUn+6KJP8AVP8A7poAMP8A3l/75/8Ar1HOH8sZZfvr/D/tD3qao5/9WP8AfT/0IUAOw/8AeX/vn/69NcPtGWXqP4ff61JTZPuj/eH86ADD/wB5f++f/r01g+5PmXr/AHfY+9SU1vvJ/vf0NABh/wC8v/fP/wBemkP5g+Zeh/h+nvUlNP8ArV/3T/SgAw/95f8Avn/69NAfzD8y9B/D9fepKaP9a3+6P60AGH/vL/3z/wDXqOIP5k3zL9/+7/sj3qao4v8AWTf74/8AQRQA7D/3l/75/wDr01A+04Zep/h9/rUlNj+6f94/zoAMP/eX/vn/AOvTYw/lrhl6D+H/AOvUlNj/ANUn+6KAGyB/LbLL0P8AD/8AXp2H/vL/AN8//Xok/wBU/wDumnUARuH2jLL1H8Pv9adh/wC8v/fP/wBeiT7o/wB4fzp1AEMofzIfmX7/APd/2T71Jh/7y/8AfP8A9emy/wCsh/3z/wCgmpKAIyH8wfMvQ/w/T3p2H/vL/wB8/wD16D/rV/3T/SnUARgP5h+Zeg/h+vvTsP8A3l/75/8Ar0D/AFrf7o/rTqAI1D7n+Zev932HvTsP/eX/AL5/+vQv3n/3v6CnUAY3hgP/AGBHhl/1038P/TV/etfD/wB5f++f/r1FZW0NnaiG3TZGHcgZJ5LEnr7k1PQBDbh/ssWGX7g/h9vrTpA/ltll6H+H/wCvRbf8esX+4P5U6T/VP/umgAw/95f++f8A69NcPtGWXqP4ff61JTZPuj/eH86ADD/3l/75/wDr01g+5PmXr/d9j71JTW+8n+9/Q0AGH/vL/wB8/wD16awfcnzL1/u+x96kprfeT/e/oaADD/3l/wC+f/r1Gwf7UnzL9xv4fdfepqjb/j6T/cb+a0AOw/8AeX/vn/69NAfzD8y9B/D9fepKaP8AWt/uj+tABh/7y/8AfP8A9emqH3P8y9f7vsPepKav3n/3v6CgAw/95f8Avn/69FOooAjVTuf526+3oKdtP99v0/woX7z/AO9/QU6gDK0CWa502V5pmZhe3aA4H3VuJFA6dgAK09p/vt+n+FZXhn/kEzf9hC9/9Kpa16AI41Plr87DgelEiny2+djwfSnR/wCqT/dFEn+qf/dNABtP99v0/wAKbIp8tvnY8H0qSmyf6p/900AG0/32/T/Cmup2j526j09akpsn3R/vD+dABtP99v0/wqOVT5kPzt9/2/umpqjl/wBZD/vn/wBBNAFbUrs6fZNKgaaZiI4IcgGWQ8KucHHPU9gCegpNK082FqfPlNxdzN5lxOf43PoOyjoB2AHU5JWbTUuNYtr+WRm+yxusUWPlDNgF/rtBA9mb1q7QAUUUUAFFFFABRRRQAUUUUAFFFFABTJYo54XhnjWSKRSro65VgeCCD1FPooAxNMa4sdQOjXTySpFGJbS4YZ3x5IKE92T5QSeoZT1zWztP99v0/wAKgvbMXiwfO0bwTpMjqTxg8jgjqpZfxqzQBGVPmD526H09qdtP99v0/wAKD/rV/wB0/wBKdQBCqn7U/wA7fcX09WqTaf77fp/hTV/4+n/3F/m1SUARqp3P87dfb0FO2n++36f4UL95/wDe/oKdQBGinafnbqfT1p20/wB9v0/woj+6f94/zp1AEcany1+dhwPSiRT5bfOx4PpTo/8AVJ/uiiT/AFT/AO6aADaf77fp/hUc6nyx87ffX0/vCpqjn/1Y/wB9P/QhQA7af77fp/hTXU7R87dR6etSU2T7o/3h/OgA2n++36f4U1lO5Pnbr7ehqSmt95P97+hoANp/vt+n+FNKnzB87dD6e1SU0/61f90/0oANp/vt+n+FNCnzD87dB6e9SU0f61v90f1oANp/vt+n+FRxKfMm+dvv+390VNUcX+sm/wB8f+gigB20/wB9v0/wpqKdp+dup9PWpKbH90/7x/nQAbT/AH2/T/CmxqfLX52HA9Kkpsf+qT/dFADZFPlt87Hg+lO2n++36f4USf6p/wDdNOoAjdTtHzt1Hp607af77fp/hRJ90f7w/nTqAIZVPmQ/O33/AG/umpNp/vt+n+FNl/1kP++f/QTUlAEZU+YPnbofT2p20/32/T/Cg/61f90/0p1AEYU+YfnboPT3p20/32/T/Cgf61v90f1p1AEaqdz/ADt19vQU7af77fp/hQv3n/3v6CnUAZXh6Sa40WOSaZ3fzZQWOCcCRgP0Fae0/wB9v0/wrK8L/wDIvx/9dp//AEc9a9AENup+yxfOw+QenpTpFPlt87Hg+lFt/wAesX+4P5U6T/VP/umgA2n++36f4U11O0fO3UenrUlNk+6P94fzoANp/vt+n+FNZTuT526+3oakprfeT/e/oaADaf77fp/hTWU7k+duvt6GpKa33k/3v6GgA2n++36f4VGyn7Unzt9xvT1Wpqjb/j6T/cb+a0AO2n++36f4U0KfMPzt0Hp71JTR/rW/3R/WgA2n++36f4U1VO5/nbr7egqSmr95/wDe/oKADaf77fp/hRTqKAIVgTc/MnX/AJ6N6D3p3kJ6yf8Afxv8acv3n/3v6CnUAVba2iWIhAyjzHOFcjksST16k81N5Cesn/fxv8azfDTFtKmLEk/2hejn/r6lrWoAhjgQxrzJ0H/LRv8AGiSBBG3MnQ/8tG/xqSP/AFSf7ook/wBU/wDumgBvkJ6yf9/G/wAabJAgjbmTof8Alo3+NTU2T/VP/umgBvkJ6yf9/G/xprwIFHMnUf8ALRvX61NTZPuj/eH86AG+QnrJ/wB/G/xqOSFRJFy/L/8APRv7p96sVHL/AKyH/fP/AKCaAKeh3Mt3phlmbcTcTqh9UWZwn/joFZmv6vqI8RaZ4f0SSC3ur6Ce6lup4zKIYojGpwgIyzNKoBJwMHg1d8NFf7FKpuIjurmLLLjJWeRScfUVDr/h6XVL2w1LTL4adqmnlxDcNB5yNG4AeN0yMqdqngggqOeoIBWN7r/h+xvZtZEGsxRmMWjWUfkzOTgESKx2KAed+4DHYY5z4fiTBNYs0Wk3Ut9HqY0x7OGWJyZTF5qlXDbCpXGCSME/NtwcLqHgTUNY02Yav4hN5ftdQ3MRe1/0OPymyqfZt+GU85y248fNwKh0/wCHM1hqf2v+2hIG1SLU5E+xhfnSExFFwwCoVIwMEjHU5oAfp/xI+13Fqlz4fvrSKTUG0u4neWJlt7oMyiPAbLA7R8wGPnXqd22xpfxF07VNQsYY4tlvqM8kNpN9ojYuVUsrNGDuVXCsVJHYA43Ll3/CC/6N5X9o/wDMwf21nyP+mm/yvvfhu/Sq+gfD06De2yQ31m+l2UjPbQf2Yn2jHJVHnYsSFJ4Kqp4UZOOQA0/4ivqfhex1u28OagkOokfZVuJYY8ptLGR2L7UXjAydzZGFxnHQ+G9et/E2gW+q2kUsMcxdDFLt3RujsjqdpIOGVhkEg4rmT8NvL0LwxY22owNL4egaCKS8sRPHKGQIWMZcAOAODk4yeCCRW74S8NHwt4ffSBfSXkIuZ5YZHTbIqyyNIQxB+Zgzt8wA7ccUAcpoXizVry/s49W1y20zVZbsxz6FqFkYV27iCkMh5kbbyGBZWx0GeNOH4m6bPrC2sdrJ9mkv206O68+L5pwxT/V7t4UupUNjk44wc0+48GazqVnbaZrXiRL7S7eeGcZsAt3KYpFdA82/b1UZKxqT6jNJpfgD+yNWD2d3YjTlvZLxYm0xGuQzu0hTzyx+QOxI+TcBgbuKAKWg/EHVdXuvD8UuiiJdWnvQzCRfkjgcqCPm68jPrg4HIpumfEky6LZmz0zU9YmGiwavNPIYImMLmQZbBVfM/dE7VABz2q5pngG90q50iS31qFl0m8uZIFexJLW1w254mIk5cHpIAB0yh5y/Qvh3FolibZdReYHQYNF3GID5YzKfM69T5vT2680AN1D4l2ltZX9/YaTfajY6bYR313PAY18tXj8xQFZgSdmCewB79KuW/jiO98RTaXY6Xc3H2V4o7l1liVo/MRHVxGWDsgDjLAdmxnBri/EfhTVdM0vV9A0BNQmGraNDYGVLRHjmlSEwA+Zv/cjaF37lI252nNdRqvgK61e/tGutVtHtbWeCeJm0xftcPlFW2RXAcbFJU5yjHDMM0AdrWXockl7pfmXbs8yTzQuysygmOVkyBnp8talcvoOhafe6bJdzQShri8uphtndQVaeRlOFbHIIPHrQB0RgTzBzJ0P/AC0b296d5Cesn/fxv8aZbWsVnHHBbhhGitgM5Y8nPUknvVW40HT7q4eeeOZpHOWIuZB+gbAoAsiFftLjL/cX/lo3qfepPIT1k/7+N/jWSvhrS/tLjypvuL/y9S+p/wBqteKJYIUijBCRqFUEk8DjqeTQAxYE3PzJ1/56N6D3p3kJ6yf9/G/xrNPhzTZZpXeOYsz5J+1S8kj/AHqP+EZ0v/nlN/4FS/8AxVAGgkCFTzJ1P/LRvX607yE9ZP8Av43+NKo3Rspzglhwcdz3rM/4RnS/+eU3/gVL/wDFUAaEcCGNeZOg/wCWjf40SQII25k6H/lo3+NULbw9p0LQyxxzB0KspNzIRkc9C2DWhdwpcWcsUu7Y6ENtYqcfUc0AL5Cesn/fxv8AGo5oVEY5f769ZG/vD3qj/wAIzpf/ADym/wDAqX/4qlTQrCzljnt45RIjrgtcSMOSB0LEd6ANHyE9ZP8Av43+NNeBAo5k6j/lo3r9aLu0hvbcwXAYxkgkK7Jn8QQazX8M6XtH7qbqP+XqX1/3qANTyE9ZP+/jf401oE3JzJ1/56N6H3qvZaPZafMZbVJFdl2ktM78dejEjtT7+wt9QWKO6V2VXyAkrJzg/wB0igCfyE9ZP+/jf400wJ5g5k6H/lo3t71n/wDCM6X/AM8pv/AqX/4qrNlplrp0rfZEdfMX5t8rv06feJx1oAs+QnrJ/wB/G/xpogTzDzJ0H/LRvf3qC90mz1CRXuo3ZlGAUldOP+AkVUHhnS/Mb91N0H/L1L7/AO1QBqeQnrJ/38b/ABqOOFTJLy/D/wDPRv7o96LKxt9PhMVqrKjNuIaRn56dWJPaqk2iWN9eTzXMchkLAErO6fwjspAoAv8AkJ6yf9/G/wAaakCFTzJ1P/LRvX61nr4fhtt76Zc3dpMeh+0vKnbrG5K845wAfQjrUui6g1/aTLOqpd2s7wXMaE4VxzkZ7MrKw9mFAF3yE9ZP+/jf402OBDGvMnQf8tG/xqamx/6pP90UARyQII25k6H/AJaN/jTvIT1k/wC/jf406T/VP/umnUAQvAgUcydR/wAtG9frTvIT1k/7+N/jTpPuj/eH86dQBXkhUSRcvy//AD0b+6fepPIT1k/7+N/jRL/rIf8AfP8A6CakoAhMCeYOZOh/5aN7e9O8hPWT/v43+NOP+tX/AHT/AEp1AEIgTzDzJ0H/AC0b396d5Cesn/fxv8acP9a3+6P606gCFYE3PzJ1/wCejeg96d5Cesn/AH8b/GnL95/97+gp1AEEdtGFO3eBuY8SMO596f5Cesn/AH8b/Gszwv8A8i/H/wBdp/8A0c9a9AFe3hU20RJflB0kb0+tOkgQRtzJ0P8Ay0b/ABp1t/x6xf7g/lTpP9U/+6aAG+QnrJ/38b/GmvAgUcydR/y0b1+tTU2T7o/3h/OgBvkJ6yf9/G/xprQJuTmTr/z0b0PvU1Nb7yf739DQA3yE9ZP+/jf401oE3JzJ1/56N6H3qamt95P97+hoAb5Cesn/AH8b/GozCv2lBl/uN/y0b1HvVio2/wCPpP8Acb+a0AHkJ6yf9/G/xpogTzDzJ0H/AC0b396mpo/1rf7o/rQA3yE9ZP8Av43+NNWBNz8ydf8Ano3oPepqav3n/wB7+goAb5Cesn/fxv8AGipKKAI1jTc/yL19PYU7y0/uL+VNWRNz/MvX19hTvMT++v50AZXhyDZpcwki2n7feEBlxwbmQg/litXy0/uL+VQWdzBNAzRSo6iWRSQ3cOwI/Agip/MT++v50ANjjQxrlF6DtRJGgjbCL0PaiORBGuWXoO9EkiGNsMvQ96AHeWn9xfypskaCNsIvQ9qd5if31/OmySIY2wy9D3oAd5af3F/KmvGgUYReo7e9O8xP76/nTXkQqMMvUd/egB3lp/cX8qjljTzIfkX7/p/smpPMT++v51HLInmQ/Mv3/X/ZNADhNCLj7OJIxNs3+UGG7bnGceme9SVla35kVuupWKefd2Ku6QK+DOpHzR9cZOBjP8QX3rQtbqC+tY7m0lWWGQZR17/59KAJaKKKACiiigAooooAKKKKACiiigAooooAZNPFbxh53VFLqgLHqzMFUfiSB+NL5aH+BfyrEW4/tfxCGUr9g0yRlyT/AKy5wQf+AoCR/vE91rb8xP76/nQA0xp5g+Reh7fSneWn9xfyppkTzB8y9D3+lO8xP76/nQBGsafan+RfuL292qTy0/uL+VRrIn2p/mX7i9/dqk8xP76/nQA1Y03P8i9fT2FO8tP7i/lTVkTc/wAy9fX2FRNqVkl/FZNdwi7mUtHB5g3so6kL1wPXpQBKkaFTlF6nt707y0/uL+VVL2DUJUVNPu4bXO7fI8Bkb22/MAO/XP0qs3h22nydRub2/J6ia4ZUP3esabUPKg/d7n1oA0o40Ma5Reg7Vly+JPD4V1XVbB3GQVjmV2B+gJNakEENrAkFtEkMUY2pHGoVVHoAOlSUAZdrr+hXs6wWup2Es7kqsKzJvJHbbnPar08aCMYRfvr2/wBoVNVe+0+z1O2NvqNrDdQk58uZAwz689/egCby0/uL+VNeNAowi9R296zxoawNu0++vbTJyUE3moeScbZNwAJP8ODwACKt2sd2lmiX08VxOCN0kURjU8/3SzfzoAn8tP7i/lTWjTcnyL19PY1HBf2ly0q29zFI0LmOVVcEow7EdjUjSJuT5l6+vsaAHeWn9xfyppjTzB8i9D2+lO8xP76/nTTInmD5l6Hv9KAHeWn9xfypojTzD8i9B2+tO8xP76/nTRInmH5l6Dv9aAHeWn9xfyqOKNPMm+Rfv+n+yKk8xP76/nUcUieZN8y/f9f9kUASeWn9xfyrH01FHiTV12rgiF8Y74YfyUflWx5if31/Oq8EFvFdT3KkCWcBXO7qFLY/9CoAseWn9xfypscaGNcovQdqd5if31/OmxyII1yy9B3oAJI0EbYReh7U7y0/uL+VNkkQxthl6HvTvMT++v50ANeNAowi9R296d5af3F/KmvIhUYZeo7+9O8xP76/nQBHLGnmQ/Iv3/T/AGTUnlp/cX8qjlkTzIfmX7/r/smpPMT++v50ANMaeYPkXoe30p3lp/cX8qaZE8wfMvQ9/pTvMT++v50ANEaeYfkXoO31p3lp/cX8qaJE8w/MvQd/rTvMT++v50ANWNNz/IvX09hTvLT+4v5U1ZE3P8y9fX2FO8xP76/nQBl+HLYw6HGk8JRxLMSrrg4MrEdfatTy0/uL+VRW11BPD5kMyOm9gGDcZDEH9RUvmJ/fX86AI7eNDaxZRfuDt7U6SNBG2EXoe1Nt5EFrFll+4O/tTpJEMbYZeh70AO8tP7i/lTXjQKMIvUdveneYn99fzpryIVGGXqO/vQA7y0/uL+VNaNNyfIvX09jTvMT++v501pE3J8y9fX2NADvLT+4v5U1o03J8i9fT2NO8xP76/nTWkTcnzL19fY0AO8tP7i/lUbRp9qT5F+43b3WpPMT++v51G0ifak+ZfuN391oAk8tP7i/lTRGnmH5F6Dt9ad5if31/OmiRPMPzL0Hf60AO8tP7i/lTVjTc/wAi9fT2FO8xP76/nTVkTc/zL19fYUAO8tP7i/lRR5if31/OigAX7z/739BTqjVxufhuv90+gp3mD0b/AL5NAGV4Z/5BM3/YQvf/AEqlrXrL0GKS106WOdGVmvbqQDGfle4kZTx6gg1peYPRv++TQAR/6pP90USf6p/9002NwI14boP4TRI4MbcN0P8ACaAJKbJ/qn/3TR5g9G/75NNkcGNuG6H+E0ASU2T7o/3h/OjzB6N/3yaa7gqOG6j+E+tAElRy/wCsh/3z/wCgmneYPRv++TUcrjzIeG+//dP900ATVWt7OK0up3h3D7S3mOm75Q2ACQO2ep9Tz1JqfzB6N/3yaaXHmDhuh/hPtQAsE8VzAk1tKk0Ug3JJGwZWHqCOtPrFutMnt7qS+0KfyLiQ7pbaYMbec9yQBlG/2l/ENWhZXjXQdZraW3mjxvR1OOR/C3Rh9PxA6UAWqKKKACiiigAooooAKKKZLKsMTSOGKqMkIhY/gACT+FAD6iJiu4JUjmyDujZon5U9DyOhH6VjyLqWseW0rvpuntgtCoZbmTnoXBHljpkDLe69K1rWC2sbWO2s4BBBGMJHHGQqj6YoALe1gsreC2tY1ihj4VF7cH/OanqNnG5OG6/3T6GneYPRv++TQAH/AFq/7p/pTqjLjzBw3Q/wn2p3mD0b/vk0ANX/AI+n/wBxf5tUlQq4+1Pw33F/hPq1VLfUXvdYlgs1RrS1BSeVgcmXjCL9Byx9SB13YAIrxtUu7ySysUksYAQZNROxj0HyxKd2W9S4wOwbnFyx0630+LbApLsB5kzndJKfVm6k8n+lWqKACisp/FGhx61/ZD6rajUNwQ2/mjcrEZVT6MRyAeSCMVGni/w/JqM9gmr2rXNuHMsYkyV2DLj0JUckDkd6ANmisjQfE2neI9DbVtOd/syvIjeYmGBQkE4GeCBkY6gg96qHx34enhm/szVrK+uEs3u44IpwTMiru+U854xnGcZ5oA6Kiue8O+NtF8RWMMlvf2qXZs0u7i1E4ZoFI+bJ4yFOVJ7Ec4qSz8beGr+1uLmz1q0mhtVV5mWT7iscKx/2Seh6GgDdorGt/F/h26sr27t9aspLewAN1KJl2wgjKkn0I6Hoe1XdP1ax1UT/ANn3CzG2lMM6gENE4AJVlPIOCDg+tAEOoaHa304u03WuoIMR3sGBIvsezL/stke1FjcXwnFnqcO6aMbhdwpiKUcjpklW9VP4E840qKACmn/Wr/un+lUItTaPV5dPv1Ebt+8tXVTtmTHI7/Op6j0wR1IF0uPMHDdD/CfagCSmj/Wt/uj+tHmD0b/vk00OPMPDdB/CfegCSo4v9ZN/vj/0EU7zB6N/3yajiceZNw33/wC6f7ooAmrPs72SbV760YKI7dY2QgcncWzn8hV7zB6N/wB8msfTnA8Tat97/Vwfwn/boA2qbH/qk/3RR5g9G/75NNjcCNeG6D+E0AOk/wBU/wDumnVHI4MbcN0P8Jp3mD0b/vk0AEn3R/vD+dOqN3BUcN1H8J9ad5g9G/75NADZf9ZD/vn/ANBNSVDK48yHhvv/AN0/3TUnmD0b/vk0AB/1q/7p/pTqjLjzBw3Q/wAJ9qd5g9G/75NAAP8AWt/uj+tOqMOPMPDdB/CfeneYPRv++TQAL95/97+gp1Rq43Pw3X+6fQU7zB6N/wB8mgDK8L/8i/H/ANdp/wD0c9a9ZegwyWejpDcoySCWUkYzwZGI6exFaXmD0b/vk0ANtv8Aj1i/3B/KnSf6p/8AdNR27gWsXDfcH8J9KdI4MbcN0P8ACaAJKbJ90f7w/nR5g9G/75NNdwVHDdR/CfWgCSmt95P97+ho8wejf98mms43Jw3X+6fQ0ASU1vvJ/vf0NHmD0b/vk01nG5OG6/3T6GgCSo2/4+k/3G/mtO8wejf98mo2cfak4b7jfwn1WgCamj/Wt/uj+tHmD0b/AL5NNDjzDw3Qfwn3oAkpq/ef/e/oKPMHo3/fJpquNz8N1/un0FAElFN8wejf98migAX7z/739BTqjVjuf5G6+3oKduP9xv0/xoAr6fcx3ds8kJJVZ5ozkY+ZJGVv1U1arG8NMf7Jm+Rv+Qhe+n/P1LWvuP8Acb9P8aACP/VJ/uiiT/VP/ummxsfLX5GPA9KJGPlt8jDg+lAElNk/1T/7po3H+436f402Rj5bfIw4PpQBJTZPuj/eH86Nx/uN+n+NNdjtHyN1Hp60ASVHL/rIf98/+gmnbj/cb9P8ajlY+ZD8jff9v7poAmpp/wBav+6f6Ubj/cb9P8aaWPmD5G6H09qAJKaP9a3+6P60bj/cb9P8aaGPmH5G6D096AKt3YXMsrTWOozWshB+QqskTHGASrDIx6Ky571Win1+GQJcWtjeIGIaaCZoWxjI/dsGHoPv1q7j/cb9P8aarHc/yN19vQUALPMIIHlZXcIM7Y0LMfYAdayH8V6dC8STw6jFJM5REOmXB3MAWwCqEHhSevatjcf7jfp/jWPq7Ml5o0xjcxxaid7AZ27opUXP/AnUfjQBfs9RS9kkRILqLZ/FPA0Yb6ZFR3NzqJkC6dZQSRtGGE09wUGSem0KxOBg9s5xV3cf7jfp/jUdux+yxfIx+QenpQBmyafqt1GGvtWMChctFYRCMMccgu25iM912nge9a0aCONUXcQoABZix/Enk/U02Rj5bfIw4PpTtx/uN+n+NABJ90f7w/nTqjdjtHyN1Hp607cf7jfp/jQAN95P97+hp1Rsx3J8jdfb0NO3H+436f40AB/1q/7p/pTqjLHzB8jdD6e1O3H+436f40AUdTnuYIJzYRl7p0SOH5SwVmYgM3+yudx9gan06wg0zT4rO1DeXEMAscsxJyWJ7kkkk9yTSRXUcmrXFqMiWKCKRgR/CzSAc/VGq1QAUUVT1PWNO0aGObVb2Gzjlfy42mcLvfaW2jPU4Vjj2oA4rV9H1/8A4SwzaHp11bpNqEMtzIbyGWxuIgUEjPE/zpJsBx5Y6qCWqj4e8JazY6hYafqFjqckOn3zTLe/2lEtoyhmZZFiG6Te2cMpVRln+bBrtm8X+H10eLVDq9r9imkMUUof78gzlAOpYbWyuMjB44qCTxtoYv8ATrO3vobiTU7eW4tXjcGN1jwDlu3Jx0PQ56UAVfA2l3+lfD+DSNWtDbXNoskB/eK6yjJIdSpPBB6HByDx0J4bwvo+t634C8GRQ6M1rBp+ivILnz4tl0ZrNo0VAGLAnzAzbgoBHeuof4lxHUFs4ItMZ00iHUriWTUisK+b91EfyjvXAJ3nbwV4546VNd0Cx1KHQY7+yt7pQsUVkjqpXC5VAo4B28heuOQMUAcJrfgLWdZ8PaDp8SpbSQeGLrTbl2cEJM6W21GwcspMTgkZ/Wl8T6B4g8W2mo3C6DNpsg0c6fHZzXEBNxI00bkqUcqEURkAsVPzHiu3h8X+Hri6uLeDWLSSW2R5JVWUHCp98j12ng4zg9aqaV430vV7a1v7e4totOuNM/tEy3FwEliTIzuTGAozy27AIx70Ac5418G6zrGs6tcaOipDLp+nLEFkCedJb3csrR/7J2suGPGfxrc8GaRcWd5qmoXllqVrLdmKIf2nfR3EsixhsMRHlV5cj7zE4GcYFaMPjHw7Pptxfx6zZ/ZbZ0SeVpQoiLkBN2cY3EjBPXPFEfjDw9Nps9/HrFqba3lEMshkxtc42rg85ORgd8jGaANqiqunanY6vZi70y6iuoCxXzImyAwOCD6EHgg8irVAFHVdP+32yGPC3Vs/nWshONkoUgH6EMyn1DGp7WZ7i3t5pYmheSIO0TdUJAJB+nSp6rLdo+oyWyo/mQorNkYBDdCD3+6aALNNH+tb/dH9aNx/uN+n+NNDHzD8jdB6e9AElRxf6yb/AHx/6CKduP8Acb9P8ajiY+ZN8jff9v7ooAmqpbWSQ39zeKzFrgKrKeg2lun/AH1Vncf7jfp/jVK11Azald2fkMPs4Rt+4fNvLdu2NtAF+mx/6pP90Ubj/cb9P8abGx8tfkY8D0oAdJ/qn/3TTqjkY+W3yMOD6U7cf7jfp/jQASfdH+8P506o3Y7R8jdR6etO3H+436f40ANl/wBZD/vn/wBBNSVDKx8yH5G+/wC3901JuP8Acb9P8aAA/wCtX/dP9KdUZY+YPkbofT2p24/3G/T/ABoAB/rW/wB0f1p1Rhj5h+Rug9Penbj/AHG/T/GgAX7z/wC9/QU6o1Y7n+Ruvt6Cnbj/AHG/T/GgCDT7uO+sxcQbtjO4G4YOQxB/UVZrG8MMf7Aj+Rj++m9P+er1r7j/AHG/T/GgBtt/x6xf7g/lTpP9U/8Aumo7dj9li+Rj8g9PSnSMfLb5GHB9KAJKbJ90f7w/nRuP9xv0/wAaa7HaPkbqPT1oAkprfeT/AHv6Gjcf7jfp/jTWY7k+Ruvt6GgCSmt95P8Ae/oaNx/uN+n+NNZjuT5G6+3oaAJKjb/j6T/cb+a07cf7jfp/jUbMftSfI33G9PVaAJqaP9a3+6P60bj/AHG/T/Gmhj5h+Rug9PegCSmr95/97+go3H+436f401WO5/kbr7egoAkopu4/3G/T/GigAX7z/wC9/QU6oVabc/7uPr/fPoPanbp/+ecf/fw/4UAVNGtGsrGSJ2DFru5lyPR53cD8mq/WdpN7NfWckogRNtzcRYMpP3JnTP3e+3P41d3T/wDPOP8A7+H/AAoAdH/qk/3RRJ/qn/3TUcbTeWuI4+g/jP8AhRI03ltmOPof4z/hQBNTZP8AVP8A7ppu6f8A55x/9/D/AIU2RpvLbMcfQ/xn/CgCamyfdH+8P503dP8A884/+/h/wprtNtGY4+o/jPr9KAJqjl/1kP8Avn/0E0bp/wDnnH/38P8AhUcjTeZFlE+/x85/un2oAsU0/wCtX/dP9Kbun/55x/8Afw/4U0tN5g/dx9D/ABn29qAJqaP9a3+6P603dP8A884/+/h/wpoabzD+7j6D+M+/tQBNTV+8/wDvf0FN3T/884/+/h/wpqtNuf8Adx9f759B7UATVBPawXtnJbXUaywyZDI3fn/PNP3T/wDPOP8A7+H/AApqNNtOI4+p/jPr9KAM0Q69YlY7WSz1G3UAL9rd4ZQOfvOqsHPTnavvk81Npc2rOsQvrKzhh8sYeG8eRs44+UxKP1q9un/55x/9/D/hUdu032aLCIRsGMufT6UAR6jJfxw/8S62tpyQd4nuGiwMdsI2f0qr9o8Q/wDQL0z/AMGUn/xitCRpvLbMcfQ/xn/Cnbp/+ecf/fw/4UARW73b2wN/BDBLvHywTGVcZHcqv8qguptZS5ZbKwsZYBja8t88bHjnKiJgOc9zVp2m2jMcfUfxn1+lO3T/APPOP/v4f8KAMtrjxDuT/iV6Z1/6CUnof+mFarGTySVVTLt4UthSfTOOnvj8KYzTbk/dx9f759D7U7dP/wA84/8Av4f8KAOI+IV94gg8BavK1pZ2uy1Y+db6hI0icjlR5S8/iK878Ca58YJVjFpaS6jZcjdrCbV4PJ8xirt6dT344Ne8N5rSKGijPGcFz6j2p+6f/nnH/wB/D/hQBi6N9ubxDqEmrRwQ3TWlsDHbzGRAoabBBKqeSW6it6qUFtt1m5u2AEktvFEQGyMK0hH/AKGau0AFYHiXSrnUtU8MzW8CzR6fq32q43MBsT7NPGGHqQ8icCt+igDziLw3rmkeKDrsemtfxxatfTLZwzRiRop4ogsib2VchoyCCw4cmoLPwrr1jrGmai2mmQTyaubi3hnj/wBC+2SxyR53MAwHlndtydzHAI5r0W/1Gz0qza71O6htLZGVWmncIilmCrkngZYgfjWVB448MXUsUcGuWbvLN5CqJRnzCQApHYkkYzjORjOaAOBPgHxAfCslj9lj89vCOmaWF85f+PiF5DIuc9AGHPQ10+mafrGlapd6cdCjvba61iTUBqUssflRxud/K53+ap+VcLjAB3Cug/4SjQ/7a/sj+1bX+0N/l/Z/NG7fjds/3sc7euOcVz5+KOhPJpkkMqmyvby7tHuZJAvlPBuGQADu3lfl5BIYd+KAOa0rwx4rfUfD1zq9hetPZNPFfSSXcHlBpoWTzIIkYARAkcEB8H7pqBPAviPUfDOn2c+mizmsvDUOmNHcTxsss0M0L4BRm+RxEcE9M8gdK9Im8XeH4NMtdQl1e1FreEi3kEmfOIzkKBycYOfTBzTrrxZoFlBZz3OsWccV8nmW0nmgrKgAJcEfwjIy3QZHNAHFeIPDWt+K7y/1I6O+niRNNtktLqaJnlWG+E8jtsZlChc7RuJPPA6G3rnhi+m8Qa7ftpE1/b3UthJb/ZL5be4RoVkzJGSQNyllG1ioIJ57HW0j4h6Je+G9H1PVry10qbVLOO7FtLcAmJXHUtgYXII3EAEiuroA57wXBrUGj3A8QiUSvdO1uLjyfPEOBt80w/IX68rnjHJOa6GiigArnJn1CPxxetpttbXBbTrYP9oumiC4knxjCNnqfTt17dHVBLEw6zcXyfPJcRJGQzkBVQkgAYPd2P40AS2Ml/Ir/wBpW1tbsCNgt7hpc/XKLj9aivJdTjucadZ2k6bBuM900RByegEbZ/MVb3T/APPOP/v4f8KaGm8w/u4+g/jPv7UAZ/2jxD/0C9M/8GUn/wAYq5YNcPFI17FFFOX+ZIpTIo4GMMVUnjHYVNun/wCecf8A38P+FRxtN5kuET7/AD85/uj2oAqzz64s7i207T5IgfkaS/dGI9wITj8zWLYXGvf8JJqm3TdOLeXDuB1CQAcv0Pk811G6f/nnH/38P+FULSzuYdVvbwiIrcBFVd5yNu7Pb/aoA0ZC4jYxKrPg7QzYBPbJwcfkayY7jxD5a/8AEr0zoP8AmJSf/GK1N0//ADzj/wC/h/wpsbTeWuI4+g/jP+FAFKOfWmfF3p9hFCQd7xXzuw47KYQD+Yq5ePdpBmwghnlz92eYxLj6hW/lSyNN5bZjj6H+M/4U7dP/AM84/wDv4f8ACgDLe48Q7R/xK9M6j/mJSev/AFwq5Yy6lIz/ANpWlrbqANht7ppc/XMa4/WpnabaMxx9R/GfX6U7dP8A884/+/h/woAp6lJqMc1v/Z1razjcdxnuWiwdp6YjbP6VAb3XoiGm0a1ljz8y2t+Wk/APGin8WFX5Gm8yLKJ9/j5z/dPtUm6f/nnH/wB/D/hQBBY6hb6lEs9qzFfmVldSrIwIyrKeVI9DVusGET2vjS4WNV8u9s1mZPNOBIjBC33epUoD/uD8drdP/wA84/8Av4f8KAHD/Wt/uj+tOqENN5h/dx9B/Gff2p26f/nnH/38P+FADl+8/wDvf0FOqFWm3P8Au4+v98+g9qdun/55x/8Afw/4UAVtIsjp+mrbM4crJI24DGd0jN/WrtZ+lX82oaetyIEjDSSLtMpP3XZf7vtVzdP/AM84/wDv4f8ACgAtv+PWL/cH8qdJ/qn/AN01DbtN9miwiEbBjLn0+lOkaby2zHH0P8Z/woAmpsn3R/vD+dN3T/8APOP/AL+H/Cmu020Zjj6j+M+v0oAmprfeT/e/oabun/55x/8Afw/4Vn61qF1p+n+dBbxy3DSJFChkOGkc7Vzx0BOT7A0AWtQup7S2D2tjNfSswVYomVfxJYgBR3PJ9ATxVKSTxCwRkstMUqcmM3khz/wLyuOPateigCpZXVzO8kd5YvbPGFJferxyE5zsYcnGP4lU8jip2/4+k/3G/mtSVm215PcajcwvFEHtpGjG2Q/MpCMCeODhgPqDQBpU0f61v90f1pu6f/nnH/38P+FNDTeYf3cfQfxn39qAJqav3n/3v6Cm7p/+ecf/AH8P+FNVptz/ALuPr/fPoPagCaio90//ADzj/wC/h/wooAcv3n/3v6CnVGofc/zL1/u+w96dh/7y/wDfP/16AMrwz/yCZv8AsIXv/pVLWvVHS7P7FaPFHJuDXE8pLL3eVnI/NjVzD/3l/wC+f/r0AEf+qT/dFEn+qf8A3TTYw/lrhl6D+H/69Egfy2yy9D/D/wDXoAkpsn+qf/dNGH/vL/3z/wDXpsgfy2yy9D/D/wDXoAkpsn3R/vD+dGH/ALy/98//AF6a4faMsvUfw+/1oAkqOX/WQ/75/wDQTTsP/eX/AL5/+vUcofzIfmX7/wDd/wBk+9AE1NP+tX/dP9KMP/eX/vn/AOvTSH8wfMvQ/wAP096AJKaP9a3+6P60Yf8AvL/3z/8AXpoD+YfmXoP4fr70ASU1fvP/AL39BRh/7y/98/8A16aofc/zL1/u+w96AJKbH90/7x/nRh/7y/8AfP8A9emoH2nDL1P8Pv8AWgCSo7b/AI9Yv9wfyp2H/vL/AN8//XqO3D/ZYsMv3B/D7fWgCST/AFT/AO6adUcgfy2yy9D/AA//AF6dh/7y/wDfP/16ACT7o/3h/OnVG4faMsvUfw+/1p2H/vL/AN8//XoAG+8n+9/Q06o2D7k+Zev932PvTsP/AHl/75/+vQAH/Wr/ALp/pTqjIfzB8y9D/D9PenYf+8v/AHz/APXoApaibtI5pNP+aeNY3EfA8wBiWTODjIyB74q1a3UF7ax3NrIssMgyrr3/AM+lIof7U/zL9xf4fdveqNlYT6bqki2wVtPuTJM6Zx5MxbcSo7q5ZieeGH+0cAGpRRRQBheMdJn1rQI7O2hWZv7QsZnR2ABjju4pJOv+wjfWuc1bwhqd7/wmPlQKG1bVLC4tnDrlo4ktgx68EGN8A+nHWvQKKAPL7LwVqdrrctrd2mqXdu+uvqa3KajFHaKpuPPVmj5kMinA27drbfvAGrHh/wAL6za6roK3mnNFFo+rarO87SxlZI7hpmjdAGLdJQCCAQc8Y5r0iigDzTS/Deu+HvEUWtnSn1FEuNXT7JbzRCREubxZopV3sq42pgjcCN3Q8io9C8M+IPC93a3p0ddUNzYXFvLbQ3EYFo8l1JOFYuQGjAl2Erk/JwpyK9PooA8gt/CfiXR/CemW2naPfQ63DocFj9ssr63aBnQNiO5ilO1kVmPzIHYh2xivXIRIIIxNt8wKN+wfLnHOPan0UAFFFFAFPVL42Fg8sSCW4YiO3iJx5kh4VfpnqewBPQVJZxzxWttHeTCe4SELLKFC+Y4Ay2B0yecVTXTri51v7ffNGEtiyWUK87QQA0jf7R5A9F92NaBD+YPmXof4fp70ASU0f61v90f1ow/95f8Avn/69NAfzD8y9B/D9fegCSo4v9ZN/vj/ANBFOw/95f8Avn/69RxB/Mm+Zfv/AN3/AGR70ATVVtr2Oa9ubRQwkt9rOSODuLYx+Rqxh/7y/wDfP/16x9OD/wDCTatgr/q4O3+/70AbVNj/ANUn+6KMP/eX/vn/AOvTYw/lrhl6D+H/AOvQA6T/AFT/AO6adUcgfy2yy9D/AA//AF6dh/7y/wDfP/16ACT7o/3h/OnVG4faMsvUfw+/1p2H/vL/AN8//XoAbL/rIf8AfP8A6CakqGUP5kPzL9/+7/sn3qTD/wB5f++f/r0AVWss67HfeZ922eHZt65ZTnP4VcrOa8nHiKKy/d+W1q827ac5DqMdenNX8P8A3l/75/8Ar0AA/wBa3+6P606owH8w/MvQfw/X3p2H/vL/AN8//XoAF+8/+9/QU6o1D7n+Zev932HvTsP/AHl/75/+vQBleF/+Rfj/AOu0/wD6OeteqenWQsLIW8DkoruwLjJyzlj+pq1h/wC8v/fP/wBegBtt/wAesX+4P5U6T/VP/umo7cP9liwy/cH8Pt9adIH8tssvQ/w//XoAkpsn3R/vD+dGH/vL/wB8/wD16a4faMsvUfw+/wBaAJKx/EEvkSaTM5IhXUY1kGcA71aNMn/fdPqcCtbD/wB5f++f/r1XvrNL+1a1ugrxSgqwK+x5+v8AWgC1RSFgMBiAWOB7mloAKxrNjJ4w1F0x5cdvFCcD/loMucn12yJ+la4kQyGMMpdQGK55AOcHH4H8jVO1sIrG5f7OADO8k0jHJLMxXJJJ9MAegAFAF6mj/Wt/uj+tGH/vL/3z/wDXpoD+YfmXoP4fr70ASU1fvP8A739BRh/7y/8AfP8A9emqH3P8y9f7vsPegCSim4f+8v8A3z/9eigAX7z/AO9/QU6o1U7n+duvt6CnbT/fb9P8KAKGh3Ul5p8sk2Ny3l1EMDHCTyIP0UVo1jeGlP8AZM3zt/yEL30/5+pa19p/vt+n+FABH/qk/wB0USf6p/8AdNNjU+WvzsOB6USKfLb52PB9KAJKbJ/qn/3TRtP99v0/wpsiny2+djwfSgCSmyfdH+8P50bT/fb9P8Ka6naPnbqPT1oAkqOX/WQ/75/9BNO2n++36f4VHKp8yH52+/7f3TQBNTT/AK1f90/0o2n++36f4U0qfMHzt0Pp7UASU0f61v8AdH9aNp/vt+n+FNCnzD87dB6e9AElNX7z/wC9/QUbT/fb9P8ACmqp3P8AO3X29BQBJTY/un/eP86Np/vt+n+FNRTtPzt1Pp60ASVHbf8AHrF/uD+VO2n++36f4VHbqfssXzsPkHp6UASSf6p/9006o5FPlt87Hg+lO2n++36f4UAEn3R/vD+dOqN1O0fO3UenrTtp/vt+n+FAA33k/wB7+hp1Rsp3J87dfb0NO2n++36f4UAB/wBav+6f6U6oyp8wfO3Q+ntTtp/vt+n+FADV/wCPp/8AcX+bVJUKqftT/O33F9PVqk2n++36f4UAZt1NqVnfNPEn22xOBJAigSwnH3k/vj1U89SCeFq5Y39rqVsLixnWaMnBK9VPdWHVWHcHBHepFU7n+duvt6Cqx0q2OpJfqrJcr96SM7fNGCAHx98DPAOcHpQBdoqlfXtzaIslvp816nzb1gdA646YDEA9+/51XHiXSVZEuroWMjkhUvka3ZiMZxvA3dRyMigDVopFYMoZSCpGQQetLQAUUUyeeK2haW5lSKNfvPIwVR26mgB9FZK+JdOnYppsj6k/HFkhlXk45cfIO/Vh0PpV21nnmtRLc2rWjs2BEzqzKM4GSuRnHOAT9TQAXt/BYx5lLPIwJjhjG6SXHUKvU/074FV7H+0pZzc6jttkcAR2aEPsGM5dsct2wPlHq3Wls9EsbC6muraM/aZz+9uJGMkjDOdu9sttHZc4HYCrjKdyfO3X29DQBJTT/rV/3T/Sjaf77fp/hTSp8wfO3Q+ntQBJTR/rW/3R/Wjaf77fp/hTQp8w/O3QenvQBJUcX+sm/wB8f+ginbT/AH2/T/Co4lPmTfO33/b+6KAJqzrK0li1rULpwBFMsaoc9du7P8xV/af77fp/hUENxFLcTW6TMZYcGRdvQMTjnHfBoAs02P8A1Sf7oo2n++36f4U2NT5a/Ow4HpQA6T/VP/umnVHIp8tvnY8H0p20/wB9v0/woAJPuj/eH86dUbqdo+duo9PWnbT/AH2/T/CgBsv+sh/3z/6CakqGVT5kPzt9/wBv7pqTaf77fp/hQBlP/wAjpB/2D5P/AEYla9QFY/tg+ced5Z9N23I/TNS7T/fb9P8ACgAH+tb/AHR/WnVGFPmH526D096dtP8Afb9P8KABfvP/AL39BTqjVTuf526+3oKdtP8Afb9P8KAKOh3cl9pS3E+3e0soO0YGBIwH6CtCsbwwp/sCP52H76b0/wCer1r7T/fb9P8ACgBtt/x6xf7g/lTpP9U/+6ajt1P2WL52HyD09KdIp8tvnY8H0oAkpsn3R/vD+dG0/wB9v0/wprqdo+duo9PWgCSmt95P97+ho2n++36f4U1lO5Pnbr7ehoAZe2NrqNq1tf28VzA33o5UDKfwNc7PoNvH4i0+zjuNUW1e1nd1XVLkDcjQ7OfM44ZuOhrp9p/vt+n+FVpbpE1K3smd/NmjklXgY2ptB/H51/WgBbHTbPTY2Syt1i3HLsOWfknljyep6mpm/wCPpP8Acb+a07af77fp/hUbKftSfO33G9PVaAJqaP8AWt/uj+tG0/32/T/CmhT5h+dug9PegCSmr95/97+go2n++36f4U1VO5/nbr7egoAkopu0/wB9v0/wooAF+8/+9/QU6o1Qbn5br/ePoKd5Y9W/76NAENjBHb27JCgRTNK5A/vNIzMfxJJqxWVoEj3OmyvO7OwvbtAdx+6txIqj8AAK0/LHq3/fRoAI/wDVJ/uiiT/VP/ummxoDGvLdB/EaJEAjbluh/iNAElNk/wBU/wDumjyx6t/30abIgEbct0P8RoAkpsn3R/vD+dHlj1b/AL6NNdAFHLdR/EfWgCSo5f8AWQ/75/8AQTTvLHq3/fRqOVB5kPLff/vH+6aAJqaf9av+6f6UeWPVv++jTSg8wct0P8R9qAJKaP8AWt/uj+tHlj1b/vo00IPMPLdB/EfegCSmr95/97+go8serf8AfRpqoNz8t1/vH0FAElNj+6f94/zo8serf99GmogKnlup/iPrQBJUdt/x6xf7g/lTvLHq3/fRqO3QG1i5b7g/iPpQBJJ/qn/3TTqjkQCNuW6H+I07yx6t/wB9GgAk+6P94fzp1RugCjluo/iPrTvLHq3/AH0aABvvJ/vf0NOqNkG5OW6/3j6GneWPVv8Avo0AB/1q/wC6f6U6oyg8wct0P8R9qd5Y9W/76NADV/4+n/3F/m1SVCqD7U/LfcX+I+rVJ5Y9W/76NAAv3n/3v6CnVGqDc/Ldf7x9BTvLHq3/AH0aACP7p/3j/OlZQylWAKkYII60xEBU8t1P8R9ad5Y9W/76NAEdrBFbWscVvEkUajhEUKB36CqE/h+zfzJDPqQZst8up3KgH2AkwPpWjGgMa8t0H8RokQCNuW6H+I0AUrTQ7SylSSGW/ZkGAJtRuJR+IdyD+NWb2CKeBVniSRRIhAdQRncOeam8serf99Go50AjHLffX+I/3hQBNTZPuj/eH86PLHq3/fRproAo5bqP4j60ASU1vvJ/vf0NHlj1b/vo01kG5OW6/wB4+hoAkpp/1q/7p/pR5Y9W/wC+jTSg8wct0P8AEfagCSmj/Wt/uj+tHlj1b/vo00IPMPLdB/EfegCSo4v9ZN/vj/0EU7yx6t/30ajiQeZNy33/AO8f7ooAmrH07/kZtW/65wf+1K1vLHq3/fRrD1TzNJvF1mLEluVEF7GXCkRhmKSKT1KliNvcNxyAGAN6mx/6pP8AdFYtv4u8NXMKyx67ZKrDIEl0I2/75Ygir2nahp+pwltOvoLsIAHNvOHCn3weKALkn+qf/dNOrJuvEGhWryw3Gs2MU0eVaOS8UMp9CCab/wAJP4c/6D+nf+Byf/FUAa0n3R/vD+dOqpbXdnqFt5+n3cV1FvC+ZDNvXORxkHGapt4l8PKxVtd08MDgg3ycf+PUAacv+sh/3z/6CakrDk8T+HfMixr2nff5/wBOT+6f9qtWCe1ubVbm2uElt2G5ZY5dykeuQcUAZ7/8jpB/2D5P/RiVr1yer+INIWe31DTdZ02e5tlZDAdQiXzo3ZN6hieG+UMOQCVwcA5F208ZeGbyHzI9btIx3Wa4EbDt0Yj0oA3R/rW/3R/WnVm22s6Rd+fJaapaTxwR75WiulYRrzyxB4HHeof+En8Of9B/Tv8AwOT/AOKoA1l+8/8Avf0FOrFXxP4d3N/xPtO6/wDP8noP9qrqalpr6e1+moW7Wa9bgXAMY5x97OOtAE9pbxWtuIbdAkasxCj3Yk/qamrltB8VaJJo6G81+x83zZQd96gOBIwH8XoBWj/wk/hz/oP6d/4HJ/8AFUAalt/x6xf7g/lTpP8AVP8A7pqkb6ws9Lgury9hgt3Rdsss4RDkcYJOOaqP4n8O+W2Ne07OD/y/J/8AFUAbVQ3UEVzbNDcxJNFJhXjkUMrDPQg9aoReItBnmSGDW7CSWRgqIl6hZieAAA3JqxqF9YabCkmo3sNojOFVp5wgJ9Bk0AJZaLpWmzGbTtMs7SVl2l4LdUYjrjIHTgflRqGkabqUkTajp9rdlCQpnhV9ox2yOKq/8JP4c/6D+nf+Byf/ABVTWmr6TqNwIdO1O1u5QCxSC5V2C+uAemSOfegCP/hFfD3/AEAdM/8AAOP/AAqGa2gg8V6TbwQxxwLp92qxIgCgb4OABxir99qWm6Zs/tLULez8zOz7RcCPdjGcZPOMj86pxaz4evdUtlttW0+4vSHSJY7tGkKnBYAA56qufoKAH/8ACK+Hv+gDpn/gHH/hUlromladqCTafplnay+Ww3wW6I2MrxkCtDyx6t/30ajZB9qTlvuN/EfVaAIr7StO1PZ/aVha3nl52faIVk25xnGRxnA/KnWVjaaerQ2FrDaxcN5cEYRc884FT+WPVv8Avo00IPMPLdB/EfegCSmr95/97+go8serf99Gmqg3Py3X+8fQUASUU3yx6t/30aKABfvP/vf0FOqNY03P8i9fT2FO8tP7i/lQBleGf+QTN/2EL3/0qlrXqvbQRJCwSJFHmOcBQOSxJP51N5af3F/KgAj/ANUn+6KJP9U/+6abHGhjXKL0HaiSNBG2EXoe1AElNk/1T/7po8tP7i/lTZI0EbYReh7UASU2T7o/3h/Ojy0/uL+VNeNAowi9R296AJKjl/1kP++f/QTTvLT+4v5VHLGnmQ/Iv3/T/ZNAE1NP+tX/AHT/AEo8tP7i/lTTGnmD5F6Ht9KAJKaP9a3+6P60eWn9xfypojTzD8i9B2+tAElNX7z/AO9/QUeWn9xfypqxpuf5F6+nsKAJKbH90/7x/nR5af3F/KmpGhU5Rep7e9AElR23/HrF/uD+VO8tP7i/lUdvGhtYsov3B29qAJJP9U/+6adUckaCNsIvQ9qd5af3F/KgAk+6P94fzp1RvGgUYReo7e9O8tP7i/lQAN95P97+hp1RtGm5PkXr6exp3lp/cX8qAA/61f8AdP8ASnVGY08wfIvQ9vpTvLT+4v5UANX/AI+n/wBxf5tUlQrGn2p/kX7i9vdqk8tP7i/lQAL95/8Ae/oKdUaxpuf5F6+nsKd5af3F/KgAj+6f94/zp1RpGhU5Rep7e9O8tP7i/lQAR/6pP90USf6p/wDdNNjjQxrlF6DtRJGgjbCL0PagCSo5/wDVj/fT/wBCFO8tP7i/lUc8aCMYRfvr2/2hQBNTZPuj/eH86PLT+4v5U140CjCL1Hb3oAkprfeT/e/oaPLT+4v5U1o03J8i9fT2NAElNP8ArV/3T/Sjy0/uL+VNMaeYPkXoe30oAkpo/wBa3+6P60eWn9xfypojTzD8i9B2+tAElRxf6yb/AHx/6CKd5af3F/Ko4o08yb5F+/6f7IoAmrB0m1TWJW1bUUS4C3L/AGBGG5YEViqyKD/G3LbuuGA9c7nlp/cX8qyPCqIfC1hlVP7v09zQBs02P/VJ/uijy0/uL+VNjjQxrlF6DtQA6T/VP/umnVHJGgjbCL0PaneWn9xfyoAJPuj/AHh/OnVG8aBRhF6jt707y0/uL+VADZf9ZD/vn/0E1JUMsaeZD8i/f9P9k1J5af3F/KgAP+tX/dP9KdUZjTzB8i9D2+lO8tP7i/lQAD/Wt/uj+tOqMRp5h+Reg7fWneWn9xfyoAF+8/8Avf0FOqNY03P8i9fT2FO8tP7i/lQBleF/+Rfj/wCu0/8A6Oeteoo4owpxGo+Zjwvuaf5af3F/KgBtt/x6xf7g/lTpP9U/+6ajt40NrFlF+4O3tTpI0EbYReh7UASU2T7o/wB4fzo8tP7i/lTXjQKMIvUdvegCSmt95P8Ae/oaPLT+4v5U1o03J8i9fT2NAElZF2p/4THS3OAv2O6Xk9y0Bx+QP5Vq+Wn9xfyrmNXu2Orw30FkstnpM4WeZeWbepWQKMfdjDK7euCBypBAOpqNv+PpP9xv5rTvLT+4v5VG0afak+RfuN291oAmpo/1rf7o/rR5af3F/KmiNPMPyL0Hb60ASU1fvP8A739BR5af3F/KmrGm5/kXr6ewoAkopvlp/cX8qKABfvP/AL39BTqhW3h3P+5j6/3R6CnfZoP+eMf/AHwKAMzwz/yCZv8AsIXv/pVLWvWP4es1j0yYTW4VjfXbAOmDtNzIQfoQQR7VqfZoP+eMf/fAoAdH/qk/3RRJ/qn/AN01HHbwmNcwx9B/CKJLeERtiGPof4RQBNTZP9U/+6ab9mg/54x/98CmyW8IjbEMfQ/wigCamyfdH+8P5037NB/zxj/74FNe3hCjEMfUfwj1oAmqOX/WQ/75/wDQTR9mg/54x/8AfAqOSCESRYiQZfn5Rz8poAsU0/61f90/0pv2aD/njH/3wKabeHzB+5j6H+Ee1AE1NH+tb/dH9ab9mg/54x/98Cmi3h8w/uY+g/hHvQBNTV+8/wDvf0FN+zQf88Y/++BTVt4dz/uY+v8AdHoKAJqbH90/7x/nTfs0H/PGP/vgU1LeEqcwx9T/AAj1oAmqO2/49Yv9wfyo+zQf88Y/++BUdvBCbaImJCSgySo9KAJpP9U/+6adUMlvCI2xDH0P8Ip32aD/AJ4x/wDfAoAdJ90f7w/nTqhe3hCjEMfUfwj1p32aD/njH/3wKAHN95P97+hp1Qtbw7k/cx9f7o9DTvs0H/PGP/vgUAOP+tX/AHT/AEp1Qm3h8wfuY+h/hHtTvs0H/PGP/vgUAC/8fT/7i/zapKriCH7S48pMbF42j1NSfZoP+eMf/fAoAcv3n/3v6CnVCtvDuf8Acx9f7o9BTvs0H/PGP/vgUAOj+6f94/zp1QpbwlTmGPqf4R6077NB/wA8Y/8AvgUAOj/1Sf7ook/1T/7pqOO3hMa5hj6D+EUSW8IjbEMfQ/wigCao5/8AVj/fT/0IUfZoP+eMf/fAqOaCERjESD516KP7woAsU2T7o/3h/Om/ZoP+eMf/AHwKa9vCFGIY+o/hHrQBNTW+8n+9/Q037NB/zxj/AO+BTWt4dyfuY+v90ehoAmpp/wBav+6f6U37NB/zxj/74FNNvD5g/cx9D/CPagCamj/Wt/uj+tN+zQf88Y/++BTRbw+Yf3MfQfwj3oAmqOL/AFk3++P/AEEUfZoP+eMf/fAqOOCEyS5iQ4fj5Rx8ooAsUyJQse1QAoJAAHTmk+zQf88Y/wDvgVk+F4YpPDFizxozGPJJUEnk0AbVNj/1Sf7opv2aD/njH/3wKbHbwmNcwx9B/CKAJJP9U/8AumnVDJbwiNsQx9D/AAinfZoP+eMf/fAoAdJ90f7w/nTqhe3hCjEMfUfwj1p32aD/AJ4x/wDfAoAJf9ZD/vn/ANBNSVXkghEkWIkGX5+Uc/Kak+zQf88Y/wDvgUAOP+tX/dP9KdUJt4fMH7mPof4R7U77NB/zxj/74FADh/rW/wB0f1p1Qi3h8w/uY+g/hHvTvs0H/PGP/vgUAOX7z/739BTqhW3h3P8AuY+v90egp32aD/njH/3wKAMzwv8A8i/H/wBdp/8A0c9a9Y/hyyWLRI0ntgjiWbKvHg481sdfatT7NB/zxj/74FABbf8AHrF/uD+VOk/1T/7pqG3ghNtETEhJQZJUelOkt4RG2IY+h/hFAE1Nk+6P94fzpv2aD/njH/3wKa9vCFGIY+o/hHrQBNTW+8n+9/Q037NB/wA8Y/8AvgVFOlrbxmWdYYoowWd3ACqoBJJJ6CgCaVWeF1jkMbspCuADtPrg8VVtNMtrDTYdPiTfbqCpEnzGTIJYtnqSSSfUk1FpDNfWAurqzigEzF4YymGER+7u9GI5I7Zx2q41vDuT9zH1/uj0NAGdoshs3k0OXzGexiQxSvz5sLFghz3YbSp78A/xCtNv+PpP9xv5rR9mg/54x/8AfAqvELS4eKSBYnjZGwVUYJBA/McigC5TR/rW/wB0f1pv2aD/AJ4x/wDfApot4fMP7mPoP4R70ATU1fvP/vf0FN+zQf8APGP/AL4FNW3h3P8AuY+v90egoAmoqP7NB/zxj/74FFAAsibn+Zevr7CneYn99fzoX7z/AO9/QU6gCtZ3ME0DNFKjqJZFJDdw7Aj8CCKn8xP76/nWV4Z/5BM3/YQvf/SqWtegCOORBGuWXoO9EkiGNsMvQ96dH/qk/wB0USf6p/8AdNAB5if31/OmySIY2wy9D3qSmyf6p/8AdNAB5if31/OmvIhUYZeo7+9SU2T7o/3h/OgA8xP76/nUcsieZD8y/f8AX/ZNTVHL/rIf98/+gmgB3mJ/fX86aZE8wfMvQ9/pUlNP+tX/AHT/AEoAPMT++v500SJ5h+Zeg7/WpKaP9a3+6P60AHmJ/fX86asibn+Zevr7CpKav3n/AN7+goAPMT++v501JECnLL1Pf3qSmx/dP+8f50AHmJ/fX86jt5EFrFll+4O/tU1R23/HrF/uD+VABJIhjbDL0PeneYn99fzok/1T/wC6adQBG8iFRhl6jv707zE/vr+dEn3R/vD+dOoAjaRNyfMvX19jTvMT++v50N95P97+hp1AEZkTzB8y9D3+lO8xP76/nQf9av8Aun+lOoAhWRPtT/Mv3F7+7VJ5if31/Omr/wAfT/7i/wA2qSgCNZE3P8y9fX2FO8xP76/nQv3n/wB7+gp1AEaSIFOWXqe/vTvMT++v50R/dP8AvH+dOoAjjkQRrll6DvRJIhjbDL0PenR/6pP90USf6p/900AHmJ/fX86jnkQxjDL99e/+0KmqOf8A1Y/30/8AQhQA7zE/vr+dNeRCowy9R396kpsn3R/vD+dAB5if31/OmtIm5PmXr6+xqSmt95P97+hoAPMT++v500yJ5g+Zeh7/AEqSmn/Wr/un+lAB5if31/OmiRPMPzL0Hf61JTR/rW/3R/WgA8xP76/nUcUieZN8y/f9f9kVNUcX+sm/3x/6CKAHeYn99fzrI8Kug8LWGWUfu/X3NbNNj+6f94/zoAPMT++v502ORBGuWXoO9SU2P/VJ/uigBskiGNsMvQ96d5if31/OiT/VP/umnUARvIhUYZeo7+9O8xP76/nRJ90f7w/nTqAIZZE8yH5l+/6/7JqTzE/vr+dNl/1kP++f/QTUlAEZkTzB8y9D3+lO8xP76/nQf9av+6f6U6gCMSJ5h+Zeg7/WneYn99fzoH+tb/dH9adQBGsibn+Zevr7CneYn99fzoX7z/739BTqAILa6gnh8yGZHTewDBuMhiD+oqXzE/vr+dZXhf8A5F+P/rtP/wCjnrXoAht5EFrFll+4O/tTpJEMbYZeh70W3/HrF/uD+VOk/wBU/wDumgA8xP76/nTXkQqMMvUd/epKbJ90f7w/nQAeYn99fzrDv7gatrUelxFWtLVllv2J4JxmOL8eGb/ZwDw1b1U7GxXT7ZIhI00jOXlmfG6Vzkljjj8BwAABwBQBa8xP76/nTWkTcnzL19fY1JTW+8n+9/Q0AHmJ/fX86wto0fxN5kRzYakWaXniG4/dqpHorgc/7QB/iNb9U9RsYdShks7oExTwujY6jO3kHsR1B7EUAWvMT++v500SJ5h+Zeg7/WotPW8SxRNSeKS4UspeLIDqGO1sdiVwSOgJIGRzU4/1rf7o/rQAeYn99fzpqyJuf5l6+vsKkpq/ef8A3v6CgA8xP76/nRTqKAI1cbn4br/dPoKd5g9G/wC+TQv3n/3v6CnUAZmhQvaafLHOpDNeXUgwCfle4kdf0YVo+YPRv++TVfTrqO8tXkhztWeaI5GOUlZD+qmrVAEcbgRrw3QfwmiRwY24bof4TTo/9Un+6KJP9U/+6aADzB6N/wB8mmyODG3DdD/Cakpsn+qf/dNAB5g9G/75NNdwVHDdR/CfWpKbJ90f7w/nQAeYPRv++TUcrjzIeG+//dP901NUcv8ArIf98/8AoJoAd5g9G/75NNLjzBw3Q/wn2qSmn/Wr/un+lAB5g9G/75NNDjzDw3Qfwn3qSmj/AFrf7o/rQAeYPRv++TTVcbn4br/dPoKkpq/ef/e/oKADzB6N/wB8mmo4Cnhup/hPrUlNj+6f94/zoAPMHo3/AHyajt3AtYuG+4P4T6VNUdt/x6xf7g/lQASODG3DdD/Cad5g9G/75NEn+qf/AHTTqAI3cFRw3Ufwn1p3mD0b/vk0SfdH+8P506gCNnG5OG6/3T6GneYPRv8Avk0N95P97+hp1AEZceYOG6H+E+1O8wejf98mg/61f90/0p1AEKuPtT8N9xf4T6tUnmD0b/vk01f+Pp/9xf5tUlAEauNz8N1/un0FO8wejf8AfJoX7z/739BTqAI0cBTw3U/wn1p3mD0b/vk0R/dP+8f506gCONwI14boP4TRI4MbcN0P8Jp0f+qT/dFEn+qf/dNAB5g9G/75NRzuDGOG++v8J/vCpqjn/wBWP99P/QhQA7zB6N/3yaa7gqOG6j+E+tSU2T7o/wB4fzoAPMHo3/fJprONycN1/un0NSU1vvJ/vf0NAB5g9G/75NNLjzBw3Q/wn2qSmn/Wr/un+lAB5g9G/wC+TTQ48w8N0H8J96kpo/1rf7o/rQAeYPRv++TUcTjzJuG+/wD3T/dFTVHF/rJv98f+gigB3mD0b/vk1keFXA8LWH3v9X/dPqa2ayfCylfC9irAhghBBHTk0AanmD0b/vk02NwI14boP4TUlNj/ANUn+6KAGyODG3DdD/Cad5g9G/75NEn+qf8A3TTqAI3cFRw3Ufwn1p3mD0b/AL5NEn3R/vD+dOoAhlceZDw33/7p/umpPMHo3/fJpsv+sh/3z/6CakoAjLjzBw3Q/wAJ9qd5g9G/75NB/wBav+6f6U6gCMOPMPDdB/CfeneYPRv++TQP9a3+6P606gCNXG5+G6/3T6CneYPRv++TQv3n/wB7+gp1AGZoUEllpCQXCkSCSViACcbpGYfoa0fMHo3/AHyar6deR39kLiEMqM7qA45+Vyp/UVaoAht3AtYuG+4P4T6U6RwY24bof4TRbf8AHrF/uD+VOk/1T/7poAPMHo3/AHyaa7gqOG6j+E+tSVU1SyTUdNls5ZJI45sK5ibaxXIyM9sjj1weMHmgCPS9TXVLd7uIH7KzkW7bDmRRxv8AoSDj2we9W2cbk4br/dPoadHGkUaxxKqIgCqqjAUDoAKxdc8TW+i6lYWs0TyG4bLup4hQukYZvbdKv4Bj2NAG15g9G/75NNZxuThuv90+hrP1jxFp2jBo7q6hW6MTSRW7PhpMdPpk8A+tU4PGOjPaafJfX1tZ3F1HDJ9nklGUMiAqM8Z+8Bn3HrQBveYPRv8Avk1Gzj7UnDfcb+E+q1lt4o02aFX0u8s7z/S4baT/AEgKEMhAHODkkH5R/ESBkZzTovEui3OsW9nBqds9zKsipEJBuLKRuXHqNp468GgC5qN3Pa2LT2dq91IjITEAQSm4byOOWC7iB3IA70+0vbe+t4ru0k823uIkkikVTh1IyCPYg1ZqpY2EWnmaK23LEzb1i42xZ6qvoM5OPUntgAAs+YPRv++TTVcbn4br/dPoKkpq/ef/AHv6CgA8wejf98minUUARqx3P8jdfb0FO3H+436f40L95/8Ae/oKdQBjeGmP9kzfI3/IQvfT/n6lrX3H+436f41S0a0aysZInYMWu7mXI9HndwPyar9AEcbHy1+RjwPSiRj5bfIw4PpTo/8AVJ/uiiT/AFT/AO6aADcf7jfp/jTZGPlt8jDg+lSU2T/VP/umgA3H+436f4012O0fI3UenrUlNk+6P94fzoANx/uN+n+NRysfMh+Rvv8At/dNTVHL/rIf98/+gmgB24/3G/T/ABppY+YPkbofT2qSmn/Wr/un+lABuP8Acb9P8aaGPmH5G6D096kpo/1rf7o/rQAbj/cb9P8AGmqx3P8AI3X29BUlNX7z/wC9/QUAG4/3G/T/ABpqMdp+Rup9PWpKbH90/wC8f50AG4/3G/T/ABqO3Y/ZYvkY/IPT0qao7b/j1i/3B/KgAkY+W3yMOD6U7cf7jfp/jRJ/qn/3TTqAI3Y7R8jdR6etO3H+436f40SfdH+8P506gCNmO5Pkbr7ehp24/wBxv0/xob7yf739DTqAIyx8wfI3Q+ntTtx/uN+n+NB/1q/7p/pTqAIVY/an+RvuL6erVJuP9xv0/wAaav8Ax9P/ALi/zapKAI1Y7n+Ruvt6Cnbj/cb9P8aF+8/+9/QU6gCNGO0/I3U+nrTtx/uN+n+NEf3T/vH+dOoAjjY+WvyMeB6USMfLb5GHB9KdH/qk/wB0USf6p/8AdNABuP8Acb9P8ajnY+WPkb76+n94VNUc/wDqx/vp/wChCgB24/3G/T/Gmux2j5G6j09akpsn3R/vD+dABuP9xv0/xprMdyfI3X29DUlNb7yf739DQAbj/cb9P8aaWPmD5G6H09qkpp/1q/7p/pQAbj/cb9P8aaGPmH5G6D096kpo/wBa3+6P60AG4/3G/T/Go4mPmTfI33/b+6KmqOL/AFk3++P/AEEUAO3H+436f40yKTdGGRSykkggjB5+tS1keFP+RVsP+uf9TQBq7j/cb9P8abGx8tfkY8D0qSmx/wCqT/dFADZGPlt8jDg+lO3H+436f40Sf6p/9006gCN2O0fI3UenrTtx/uN+n+NEn3R/vD+dOoAhlY+ZD8jff9v7pqTcf7jfp/jTZf8AWQ/75/8AQTUlAEZY+YPkbofT2p24/wBxv0/xoP8ArV/3T/SnUARhj5h+Rug9Penbj/cb9P8AGgf61v8AdH9adQBGrHc/yN19vQU7cf7jfp/jQv3n/wB7+gp1AGN4YY/2BH8jH99N6f8APV619x/uN+n+NVNIsjp+mrbM4crJI24DGd0jN/WrtAENux+yxfIx+QenpTpGPlt8jDg+lFt/x6xf7g/lTpP9U/8AumgA3H+436f4012O0fI3UenrUlNk+6P94fzoANx/uN+n+NcPf+ENT8QarrFzqOpXOmwXv+hR28EcEm+2VTglmVipLNI3BGMjuK7qmt95P97+hoA89/svxKsWove6P9uutW0mKxlkWaICKRPMRmbc4yjB9+Bk9iPRkfhXVf8AhH9ZtJrDMl5pNnaxIZEO+SOFlZfvYGCep49K9HprfeT/AHv6GgDitY8O6ldeJLq6tbUfZ5LjSXT51HFvcO8pxnspX61FbeHdSg0/Q4DaYmttbuL2YCRPliaaVg2c8/K68Dnmu8qNv+PpP9xv5rQA7cf7jfp/jTQx8w/I3QenvUlNH+tb/dH9aADcf7jfp/jTVY7n+Ruvt6CpKav3n/3v6CgA3H+436f40U6igCNS+5/lXr/e9h7U7L/3V/76/wDrUL95/wDe/oKdQBQ0m9e+spJREqbbm4ixvz9yZ0z077c/jV3L/wB1f++v/rVleGf+QTN/2EL3/wBKpa16AI4y/lrhV6D+L/61Ehfy2yq9D/F/9anR/wCqT/dFEn+qf/dNABl/7q/99f8A1qbIX8tsqvQ/xf8A1qkpsn+qf/dNABl/7q/99f8A1qa5faMqvUfxe/0qSmyfdH+8P50AGX/ur/31/wDWqOUv5kPyr9/+9/sn2qao5f8AWQ/75/8AQTQA7L/3V/76/wDrU0l/MHyr0P8AF9PapKaf9av+6f6UAGX/ALq/99f/AFqaC/mH5V6D+L6+1SU0f61v90f1oAMv/dX/AL6/+tTVL7n+Vev972HtUlNX7z/739BQAZf+6v8A31/9amoX2nCr1P8AF7/SpKbH90/7x/nQAZf+6v8A31/9ao7cv9liwq/cH8Xt9KmqO2/49Yv9wfyoAJC/ltlV6H+L/wCtTsv/AHV/76/+tRJ/qn/3TTqAI3L7RlV6j+L3+lOy/wDdX/vr/wCtRJ90f7w/nTqAI2L7k+Vev972PtTsv/dX/vr/AOtQ33k/3v6GnUARkv5g+Veh/i+ntTsv/dX/AL6/+tQf9av+6f6U6gCFS/2p/lX7i/xe7e1SZf8Aur/31/8AWpq/8fT/AO4v82qSgCNS+5/lXr/e9h7U7L/3V/76/wDrUL95/wDe/oKdQBGhfacKvU/xe/0p2X/ur/31/wDWoj+6f94/zp1AEcZfy1wq9B/F/wDWokL+W2VXof4v/rU6P/VJ/uiiT/VP/umgAy/91f8Avr/61Rzl/LGVX76/xf7Q9qmqOf8A1Y/30/8AQhQA7L/3V/76/wDrU1y+0ZVeo/i9/pUlNk+6P94fzoAMv/dX/vr/AOtTWL7k+Vev972PtUlNb7yf739DQAZf+6v/AH1/9amkv5g+Veh/i+ntUlNP+tX/AHT/AEoAMv8A3V/76/8ArU0F/MPyr0H8X19qkpo/1rf7o/rQAZf+6v8A31/9ao4i/mTfKv3/AO9/sj2qao4v9ZN/vj/0EUAOy/8AdX/vr/61ZfhqOeDw3ZRTRGN1TDK+VIOT1GK1qit5Y54BLDIskbElXQ5BGexoAfl/7q/99f8A1qbGX8tcKvQfxf8A1qkpsf8Aqk/3RQA2Qv5bZVeh/i/+tTsv/dX/AL6/+tRJ/qn/AN006gCNy+0ZVeo/i9/pTsv/AHV/76/+tRJ90f7w/nTqAIZS/mQ/Kv3/AO9/sn2qTL/3V/76/wDrU2X/AFkP++f/AEE1JQBGS/mD5V6H+L6e1Oy/91f++v8A61B/1q/7p/pTqAIwX8w/KvQfxfX2p2X/ALq/99f/AFqB/rW/3R/WnUARqX3P8q9f73sPanZf+6v/AH1/9ahfvP8A739BTqAKOlXz6hp63IiWPdJIu3fn7rsvp7Vcy/8AdX/vr/61ZXhf/kX4/wDrtP8A+jnrXoAhty/2WLCr9wfxe30p0hfy2yq9D/F/9ai2/wCPWL/cH8qdJ/qn/wB00AGX/ur/AN9f/Wprl9oyq9R/F7/SpKbJ90f7w/nQAZf+6v8A31/9amsX3J8q9f73sfapKa33k/3v6GgAy/8AdX/vr/61NYvuT5V6/wB72PtUlNb7yf739DQAZf8Aur/31/8AWqNi/wBqT5V+438XuvtU1Rt/x9J/uN/NaAHZf+6v/fX/ANamgv5h+Veg/i+vtUlNH+tb/dH9aADL/wB1f++v/rU1S+5/lXr/AHvYe1SU1fvP/vf0FABl/wC6v/fX/wBainUUAQqs25/3kfX+4fQe9O2z/wDPSP8A79n/ABpy/ef/AHv6CnUAUNNs2srV4oZQVa4mlO9Mnc8rOe/TLHHt61b2z/8APSP/AL9n/GqWh3Ul5p8sk2Ny3l1EMDHCTyIP0UVo0AQxrN5a4kj6D+A/40SLN5bZkj6H+A/41JH/AKpP90USf6p/900AN2z/APPSP/v2f8abIs3ltmSPof4D/jU1Nk/1T/7poAbtn/56R/8Afs/4011m2jMkfUfwH1+tTU2T7o/3h/OgBu2f/npH/wB+z/jUcgm8yLLp9/j5D/dPvVio5f8AWQ/75/8AQTQAbZ/+ekf/AH7P+NNKzeYP3kfQ/wAB9vepqaf9av8Aun+lADds/wDz0j/79n/GmhZvMP7yPoP4D7+9TU0f61v90f1oAbtn/wCekf8A37P+NNVZtz/vI+v9w+g96mpq/ef/AHv6CgBu2f8A56R/9+z/AI01Fm2nEkfU/wAB9frU1Nj+6f8AeP8AOgBu2f8A56R/9+z/AI1Hbib7NFh0A2DGUPp9asVHbf8AHrF/uD+VADZFm8tsyR9D/Af8adtn/wCekf8A37P+NOk/1T/7pp1AELrNtGZI+o/gPr9adtn/AOekf/fs/wCNOk+6P94fzp1AELLNuT95H1/uH0PvTts//PSP/v2f8ac33k/3v6GnUAQlZvMH7yPof4D7e9O2z/8APSP/AL9n/GnH/Wr/ALp/pTqAK4E32l/nTOxf4D6n3qTbP/z0j/79n/Ghf+Pp/wDcX+bVJQBCqzbn/eR9f7h9B707bP8A89I/+/Z/xpy/ef8A3v6CnUAQos204kj6n+A+v1p22f8A56R/9+z/AI06P7p/3j/OnUAQxrN5a4kj6D+A/wCNEizeW2ZI+h/gP+NSR/6pP90USf6p/wDdNADds/8Az0j/AO/Z/wAajmE3ljLofnXoh/vD3qxUc/8Aqx/vp/6EKADbP/z0j/79n/Gmus20Zkj6j+A+v1qamyfdH+8P50AN2z/89I/+/Z/xprLNuT95H1/uH0PvU1Nb7yf739DQA3bP/wA9I/8Av2f8aaVm8wfvI+h/gPt71NTT/rV/3T/SgBu2f/npH/37P+NNCzeYf3kfQfwH396mpo/1rf7o/rQA3bP/AM9I/wDv2f8AGo4xN5kuHT7/AD8h/uj3qxUcX+sm/wB8f+gigA2z/wDPSP8A79n/ABrI8Kib/hFrHDoB5fdD6n3rbrK8MxSQeGrKKaNo5FTDI64IOT1FAGjtn/56R/8Afs/402NZvLXEkfQfwH/GpqbH/qk/3RQBHIs3ltmSPof4D/jTts//AD0j/wC/Z/xp0n+qf/dNOoAhdZtozJH1H8B9frTts/8Az0j/AO/Z/wAadJ90f7w/nTqAK8gm8yLLp9/j5D/dPvUm2f8A56R/9+z/AI0S/wCsh/3z/wCgmpKAISs3mD95H0P8B9venbZ/+ekf/fs/404/61f90/0p1AEIWbzD+8j6D+A+/vTts/8Az0j/AO/Z/wAacP8AWt/uj+tOoAhVZtz/ALyPr/cPoPenbZ/+ekf/AH7P+NOX7z/739BTqAKOnWLWFkLeCUFFd2BdMnLOWPQ+pq1tn/56R/8Afs/41S0K6lvdISe4IaQySqSBjOJGA/QVo0AV7cTfZosOgGwYyh9PrTpFm8tsyR9D/Af8adbf8esX+4P5U6T/AFT/AO6aAG7Z/wDnpH/37P8AjTXWbaMyR9R/AfX61NTZPuj/AHh/OgBu2f8A56R/9+z/AI01lm3J+8j6/wBw+h96mprfeT/e/oaAG7Z/+ekf/fs/401lm3J+8j6/3D6H3qamt95P97+hoAbtn/56R/8Afs/41GRN9pT50zsb+A+o96sVG3/H0n+4381oANs//PSP/v2f8aaFm8w/vI+g/gPv71NTR/rW/wB0f1oAbtn/AOekf/fs/wCNNVZtz/vI+v8AcPoPepqav3n/AN7+goAbtn/56R/9+z/jRUlFAEaqdz/O3X29BTtp/vt+n+FC/ef/AHv6CnUAY3hpT/ZM3zt/yEL30/5+pa19p/vt+n+FQ2MEdvbskKBFM0rkD+80jMx/EkmrFAEcany1+dhwPSiRT5bfOx4PpTo/9Un+6KJP9U/+6aADaf77fp/hTZFPlt87Hg+lSU2T/VP/ALpoANp/vt+n+FNdTtHzt1Hp61JTZPuj/eH86ADaf77fp/hUcqnzIfnb7/t/dNTVHL/rIf8AfP8A6CaAHbT/AH2/T/CmlT5g+duh9PapKaf9av8Aun+lABtP99v0/wAKaFPmH526D096kpo/1rf7o/rQAbT/AH2/T/Cmqp3P87dfb0FSU1fvP/vf0FABtP8Afb9P8KainafnbqfT1qSmx/dP+8f50AG0/wB9v0/wqO3U/ZYvnYfIPT0qao7b/j1i/wBwfyoAJFPlt87Hg+lO2n++36f4USf6p/8AdNOoAjdTtHzt1Hp607af77fp/hRJ90f7w/nTqAI2U7k+duvt6GnbT/fb9P8AChvvJ/vf0NOoAjKnzB87dD6e1O2n++36f4UH/Wr/ALp/pTqAIVU/an+dvuL6erVJtP8Afb9P8Kav/H0/+4v82qSgCNVO5/nbr7egp20/32/T/ChfvP8A739BTqAI0U7T87dT6etO2n++36f4UR/dP+8f506gCONT5a/Ow4HpRIp8tvnY8H0p0f8Aqk/3RRJ/qn/3TQAbT/fb9P8ACo51Plj52++vp/eFTVHP/qx/vp/6EKAHbT/fb9P8Ka6naPnbqPT1qSmyfdH+8P50AG0/32/T/Cmsp3J87dfb0NSU1vvJ/vf0NABtP99v0/wppU+YPnbofT2qSmn/AFq/7p/pQAbT/fb9P8KaFPmH526D096kpo/1rf7o/rQAbT/fb9P8KjiU+ZN87ff9v7oqao4v9ZN/vj/0EUAO2n++36f4VFaypc2yzW82+N8lWXBBGanrI8Kf8irYf9c/6mgDV2n++36f4U2NT5a/Ow4HpUlNj/1Sf7ooAbIp8tvnY8H0p20/32/T/CiT/VP/ALpp1AEbqdo+duo9PWnbT/fb9P8ACiT7o/3h/OnUAQyqfMh+dvv+3901JtP99v0/wpsv+sh/3z/6CakoAjKnzB87dD6e1O2n++36f4UH/Wr/ALp/pTqAIwp8w/O3QenvTtp/vt+n+FA/1rf7o/rTqAI1U7n+duvt6CnbT/fb9P8AChfvP/vf0FOoAxvDCn+wI/nYfvpvT/nq9a+0/wB9v0/wqO0t4rW3ENugSNWYhR7sSf1NTUAQ26n7LF87D5B6elOkU+W3zseD6UW3/HrF/uD+VOk/1T/7poANp/vt+n+FNdTtHzt1Hp61JTZPuj/eH86ADaf77fp/hTWU7k+duvt6GpKa33k/3v6GgA2n++36f4U1lO5Pnbr7ehqSmt95P97+hoANp/vt+n+FRsp+1J87fcb09Vqao2/4+k/3G/mtADtp/vt+n+FNCnzD87dB6e9SU0f61v8AdH9aADaf77fp/hTVU7n+duvt6CpKav3n/wB7+goANp/vt+n+FFOooAjVBufluv8AePoKd5Y9W/76NC/ef/e/oKdQBk+H3efTZXmd3YX12gJY9FuZFA/AACtTyx6t/wB9Gsrwz/yCZv8AsIXv/pVLWvQBHGgMa8t0H8RokQCNuW6H+I06P/VJ/uiiT/VP/umgA8serf8AfRpsiARty3Q/xGpKbJ/qn/3TQAeWPVv++jTXQBRy3UfxH1qSmyfdH+8P50AHlj1b/vo1HKg8yHlvv/3j/dNTVHL/AKyH/fP/AKCaAHeWPVv++jTSg8wct0P8R9qkpp/1q/7p/pQAeWPVv++jTQg8w8t0H8R96kpo/wBa3+6P60AHlj1b/vo01UG5+W6/3j6CpKav3n/3v6CgA8serf8AfRpqICp5bqf4j61JTY/un/eP86ADyx6t/wB9Go7dAbWLlvuD+I+lTVHbf8esX+4P5UAEiARty3Q/xGneWPVv++jRJ/qn/wB006gCN0AUct1H8R9ad5Y9W/76NEn3R/vD+dOoAjZBuTluv94+hp3lj1b/AL6NDfeT/e/oadQBGUHmDluh/iPtTvLHq3/fRoP+tX/dP9KdQBCqD7U/LfcX+I+rVJ5Y9W/76NNX/j6f/cX+bVJQBGqDc/Ldf7x9BTvLHq3/AH0aF+8/+9/QU6gCNEBU8t1P8R9ad5Y9W/76NEf3T/vH+dOoAjjQGNeW6D+I0SIBG3LdD/EadH/qk/3RRJ/qn/3TQAeWPVv++jUc6ARjlvvr/Ef7wqao5/8AVj/fT/0IUAO8serf99GmugCjluo/iPrUlNk+6P8AeH86ADyx6t/30aayDcnLdf7x9DUlNb7yf739DQAeWPVv++jTSg8wct0P8R9qkpp/1q/7p/pQAeWPVv8Avo00IPMPLdB/EfepKaP9a3+6P60AHlj1b/vo1HEg8yblvv8A94/3RU1Rxf6yb/fH/oIoAd5Y9W/76NZnh20ktfD1nDcK0cqJhlLdDk1q1DZ3EV3arPbuJInJKsO4yaAJPLHq3/fRpsaAxry3QfxGpKbH/qk/3RQA2RAI25bof4jTvLHq3/fRok/1T/7pp1AEboAo5bqP4j607yx6t/30aJPuj/eH86dQBDKg8yHlvv8A94/3TUnlj1b/AL6NNl/1kP8Avn/0E1JQBGUHmDluh/iPtTvLHq3/AH0aD/rV/wB0/wBKdQBGEHmHlug/iPvTvLHq3/fRoH+tb/dH9adQBGqDc/Ldf7x9BTvLHq3/AH0aF+8/+9/QU6gDJ8OM8+hxyTSSSOZZgWZyTxKwH6CtTyx6t/30ayvC/wDyL8f/AF2n/wDRz1r0AQ26A2sXLfcH8R9KdIgEbct0P8Rotv8Aj1i/3B/KnSf6p/8AdNAB5Y9W/wC+jTXQBRy3UfxH1qSmyfdH+8P50AHlj1b/AL6NNZBuTluv94+hqSmSMF2sxAUEkknpwaAF8serf99Gmsg3Jy3X+8fQ1DqFj/aNsIGubm3QsC5tpPLZx/d3D5lHupB461R/4RPQSvz6TayNnd5kqb5M5z985br70Aa3lj1b/vo1GyD7UnLfcb+I+q1FZaelg8nkz3DRuFCxSyl1jxn7pOSM56ZxwMY5zO3/AB9J/uN/NaAHeWPVv++jTQg8w8t0H8R96kpo/wBa3+6P60AHlj1b/vo01UG5+W6/3j6CpKav3n/3v6CgA8serf8AfRop1FAEaxpuf5F6+nsKd5af3F/KmrIm5/mXr6+wp3mJ/fX86AIreKMRHEaj94/8P+0al8tP7i/lWR4akQaTNll/5CF73/6epa1/MT++v50ANjjQxrlF6DtRJGgjbCL0PaiORBGuWXoO9EkiGNsMvQ96AHeWn9xfypskaCNsIvQ9qd5if31/OmySIY2wy9D3oAd5af3F/KmvGgUYReo7e9O8xP76/nTXkQqMMvUd/egB3lp/cX8qjljTzIfkX7/p/smpPMT++v51HLInmQ/Mv3/X/ZNAEnlp/cX8qaY08wfIvQ9vpTvMT++v500yJ5g+Zeh7/SgB3lp/cX8qaI08w/IvQdvrTvMT++v500SJ5h+Zeg7/AFoAd5af3F/KmrGm5/kXr6ewp3mJ/fX86asibn+Zevr7CgB3lp/cX8qakaFTlF6nt707zE/vr+dNSRApyy9T396AHeWn9xfyqO3jQ2sWUX7g7e1SeYn99fzqO3kQWsWWX7g7+1ADpI0EbYReh7U7y0/uL+VNkkQxthl6HvQ88MUbSSSoiKCWZmAAA7k0ADxoFGEXqO3vTvLT+4v5VXsr+11W0Fzp8yzwFsLKgOx8Hqp6MPcZHvVObR7m9eT+0NWuvKaRisNmfsyhDwoLKd5IHUhhk8gDjABousatGCFG5sAY68E/0qK9urPTrfz7zCR7goIjLZJ6DABNQ22g6VaXH2iGwh+0ZJ+0Ou+XJOT87Zbr71oUAYx8RaR5g+aXGD/y6S+3+zWhaXNpfQmS1KuoO0/IQQcA4IIyOCKs0UAQIsbXUoAU7VUEY6Hn/wCtUvlp/cX8qpXmhaZfzNNc2ULTsMGdV2SdCv3xhhwSOtRxaVcWbL9g1O58sH/U3Z+0Lgtk/M37zOOB8+B6GgC+sabn+Revp7CneWn9xfyqG5uoLCB7i7kEUIYbpCDtUdMk9h7ngVIk8MsayRyo6MAVZWBBB7g0ACRoVOUXqe3vTvLT+4v5U1JECnLL1Pf3p3mJ/fX86AGxxoY1yi9B2okjQRthF6HtRHIgjXLL0HeiSRDG2GXoe9ADvLT+4v5VHPGgjGEX769v9oVJ5if31/Oo55EMYwy/fXv/ALQoAk8tP7i/lTXjQKMIvUdveneYn99fzpryIVGGXqO/vQA7y0/uL+VNaNNyfIvX09jTvMT++v501pE3J8y9fX2NADvLT+4v5U0xp5g+Reh7fSneYn99fzppkTzB8y9D3+lADvLT+4v5U0Rp5h+Reg7fWornUbOzMYuLiNGkYLGmcs5JAwFHJ5I6U67iuJYXWznW3lZcCRo9+3rzjI55/wDrUAS+Wn9xfyqKJY2lnACnbIARjp8qn+tUT4ftpiG1Ge61Bgwb/SJiEOMY/dptQ9P7vc+tXrOxtNOtxb6faw2sK9I4IwijjHQcdAPyoAqXWs6ZZ3LQTsfMTG4JA74yM9VUjoRWP4b1rTYPD1pDdGSGSOMhxLbSLtwT1JXFdVRQAxliVSzKgUDJJA4pI40Ma5Reg7UssUc8TRTxrJGwwyOuQfqDWU/hbS1U/wBnxyaY+SQ2nyGDB45Kr8rfdH3gRQBqSRoI2wi9D2p3lp/cX8qqWVre28U0d5fm+BP7p3hVHUejFcK31Cr+NSf2jaC+Nk1wiXIXcInO1mX1UH7w9xkA8UASvGgUYReo7e9O8tP7i/lTXkQqMMvUd/eneYn99fzoAjljTzIfkX7/AKf7JqTy0/uL+VRyyJ5kPzL9/wBf9k1J5if31/OgBpjTzB8i9D2+lO8tP7i/lTTInmD5l6Hv9Kd5if31/OgBojTzD8i9B2+tO8tP7i/lTRInmH5l6Dv9ad5if31/OgBqxpuf5F6+nsKd5af3F/KmrIm5/mXr6+wp3mJ/fX86AGpGhU5Rep7e9O8tP7i/lWR4YkQaBHll/wBdN3/6avWv5if31/OgCO3jQ2sWUX7g7e1OkjQRthF6HtTbeRBaxZZfuDv7U6SRDG2GXoe9ADvLT+4v5U140CjCL1Hb3p3mJ/fX86a8iFRhl6jv70AO8tP7i/lWR4hVXhsrIAAX12kDjy929MM7qR6FEYE+9a/mJ/fX86y9ffZYx3cKyyvZTLcbIBudlGQ4C/xEoWGByScDmgDWooooAKwNKhWz8TapYKoELEXsa9dvmn5sccZkSRvq59q36x7CEjX7++mVE84+VHwQxSMAfNn/AGzJj2we9AGt5af3F/KmiNPMPyL0Hb607zE/vr+dNEieYfmXoO/1oAd5af3F/KmrGm5/kXr6ewp3mJ/fX86asibn+Zevr7CgB3lp/cX8qKPMT++v50UAC/ef/e/oKdUKzpufiTr/AM829B7U7z09JP8Av23+FAGd4djeLS5llRkY394wDDBwbmQg/Qgg/jWrVS0vIZoWaJmdRLIpKox5DkEdOoII/Cp/PT0k/wC/bf4UAOj/ANUn+6KJP9U/+6ajjnQRrxJ0H/LNv8KJJ0MbcSdD/wAs2/woAmpsn+qf/dNN89PST/v23+FNknQxtxJ0P/LNv8KAJqbJ90f7w/nTfPT0k/79t/hTXnQqOJOo/wCWbev0oAmqOX/WQ/75/wDQTR56ekn/AH7b/Co5JlMkXD8P/wA82/un2oAsU0/61f8AdP8ASm+enpJ/37b/AAppnTzBxJ0P/LNvb2oAmpo/1rf7o/rTfPT0k/79t/hTROnmHiToP+Wbe/tQBNTV+8/+9/QU3z09JP8Av23+FNWdNz8Sdf8Anm3oPagCamx/dP8AvH+dN89PST/v23+FNSdAp4k6n/lm3r9KAJqjtv8Aj1i/3B/Kjz09JP8Av23+FVJNRgsNMWacSEKqqFWMkuxwFUepJIA9SRQBbuGZLWVo42lYISsaEAucdBkgZPuQKzIdNuNRxPrrAgj5bCM/uUGQRv8A+ejDHU/L6L3N7T2vHskfUkijuHyzRxZIjB6Ln+IgcE8AnnAqzQAUUUUAFFFFABRRRQAUUUUAFY8uky6cXuPDwSJjy9izbYJeecAA+W3J+ZRg/wAQPBGxRQBFavJJaxvNE0Ejjc0TEEoTzgkZBx7VLVe/+1/YJjpxj+1BcxCUfKxHO0+gPTPbOaisNWt9RtRPCsynO2SN4iHicdUYDoR/nigC3H/qk/3RRJ/qn/3TUcc6CNeJOg/5Zt/hRJOhjbiTof8Alm3+FAE1Rz/6sf76f+hCjz09JP8Av23+FRzTKYxw/wB9esbf3h7UAWKbJ90f7w/nTfPT0k/79t/hTXnQqOJOo/5Zt6/SgCamt95P97+hpvnp6Sf9+2/wprTpuTiTr/zzb0PtQBNWfqR1J5I4NMjRC6nfdysNsIyOi9WbqQDgccnsY59Rmm1eCw05eUxLdyyIQIo+cKM4yzEY9gCT2zqUAUNP0a10+V7hQZ72VQs17MFM0wHYsAAB/sgBR2Aq/RRQAUUUUAFFFFABRRRQAVV1DTbPVbYQahbrNGGDrngow6MpHKsM9Rg1aooAyLWPU9Puo7S4d9Rs5D+7uSFEkGOdsnTcOMBgM56jvWvRWbfalJpl9EbwL9guGSFJUU5ilZtqhueQxIAIHB4PUYAL0v8ArIf98/8AoJqSq8kymSLh+H/55t/dPtUnnp6Sf9+2/wAKAHH/AFq/7p/pTqhM6eYOJOh/5Zt7e1O89PST/v23+FADh/rW/wB0f1p1QidPMPEnQf8ALNvf2p3np6Sf9+2/woAcv3n/AN7+gp1QrOm5+JOv/PNvQe1O89PST/v23+FAGf4cikh0ONJo2jcSzEq4weZWI4+lalVbW+gubcSwM7ozNhhG3ZiD29RU3np6Sf8Aftv8KAC2/wCPWL/cH8qdJ/qn/wB01DbzKLaIEPwg6Rt6fSnSToY24k6H/lm3+FAE1Nk+6P8AeH86b56ekn/ftv8ACmvOhUcSdR/yzb1+lAE1Nb7yf739DTfPT0k/79t/hTWnTcnEnX/nm3ofagBt9NcwWxksrUXcinmLzAhYexPGfYkD3rMfxPDHLDBLpupJdzIXS2+zZYqCAx3AlBgsufm7itfz09JP+/bf4VRngEmu2d+GcLBBNCU8psneYznp28v9aAJrG5vLmSU3VgbOEBfK8yZWkY4+bcq5VQOAMMc88DAzYb/j6T/cb+a0eenpJ/37b/CozMv2lDh/uN/yzb1HtQBYpo/1rf7o/rTfPT0k/wC/bf4U0Tp5h4k6D/lm3v7UATU1fvP/AL39BTfPT0k/79t/hTVnTc/EnX/nm3oPagCaio/PT0k/79t/hRQA5fvP/vf0FOqNWO5/kbr7egp24/3G/T/GgDK8M/8AIJm/7CF7/wClUta9ZmhQTWmnyxzRkM15dSDBB+V7iRh39GFaO4/3G/T/ABoAI/8AVJ/uiiT/AFT/AO6abGx8tfkY8D0okY+W3yMOD6UASU2T/VP/ALpo3H+436f402Rj5bfIw4PpQBJTZPuj/eH86Nx/uN+n+NNdjtHyN1Hp60ASVHL/AKyH/fP/AKCaduP9xv0/xqOVj5kPyN9/2/umgCamn/Wr/un+lG4/3G/T/Gmlj5g+Ruh9PagCSmj/AFrf7o/rRuP9xv0/xpoY+YfkboPT3oAkpq/ef/e/oKNx/uN+n+NNVjuf5G6+3oKAJKbH90/7x/nRuP8Acb9P8aajHafkbqfT1oAkrISze+1W0luIyLWwiV4cnh5mUgtj/ZXgdiZD3UVqNJtUsykKBkkkcfrVfSrpL7RrK7hDLHcW8cqhxggMoIzjvzQBboqM3MAhMpmj8tTgvuGAenWkW7t3untkniadF3PEHBZR6kdQKAJaKzLfxBYSaKdTvJU0+CNd032yVE8gZx85DFR+daPmJ5nl7l343bc849cUAOoqEXdsbhYBcRecwJEe8biAcE468HigXlsZ5IRcRGWJd0ke8bkHqR2FAE1FYE3jLSYtHbV1eSXS0sJb9r2MLsCR4yuCQ24g5A244OSDgG3o+uLq1u07WNzYoIUlzcvEchgTjKOwyMc9ueCecAGpRUD31pHaC6kuoVtyARM0gCHPTnpVe61qxtL2OyeZWvJreS5ht1I3SpGVDEZwOrqOSOvscAF+iqsWowPBavOy2sl0qtHBM6h8kZ24BIJHsTUj3ltFMkUtxEkjtsVGcAs2M4A7nHOKAJqzEtXsvEMk9vETb6gubgqPuzIoCuef4kAXgfwLV/7TB9p+z+dH5+3d5W8bseuOuKS7uUs7Oa5lDFIY2kYL1IAycflQA+P/AFSf7ook/wBU/wDumo7adZrWKWIF43QMrAjDAjg06Rj5bfIw4PpQBJUc/wDqx/vp/wChCnbj/cb9P8ajnY+WPkb76+n94UATU2T7o/3h/Ojcf7jfp/jTXY7R8jdR6etAElQXcrQW7SxxNO8asyxJjc5Ck7RnjJ6VLuP9xv0/xqCW7SO9trZkffMWK8jACjknnPcdPWgCDRLKey01ftzLJfTnzrp16NIQMgewACj2UVoUUEhVJY4A5JPagAoqCe9gt7Q3LyqY8ZUhh8/GcD1PFRW+qW8tpZTXBFnJeIrR29w6CTJAOzgkFhnB2kj0JoAuUVWm1GytlVri8t4g8y26mSVV3SscKgyeWJ4A6mpxIjMyqyll+8AeR9aAHUVGk8UjyJHKjNGcOoYEp9fSmw3ltcQmW3uIZYw2wujhgG6YyO9AE1FV11CzbZtu4D5jmNMSj5nHVRzyR6U83MC3K25mjE7DcsRcbiPXHWgCWioWvLZS4a4iBRS7AuPlUHBJ9BkEZ9qPttqLP7WbmH7Nt3ed5g2Y9d3TFAE1RXVrBe2sltdRrLDIMMjd/wDPrUisrqGQhlYZBByCKWgDM0xr37LDFqaYuIJ3i8wdJlAbZJ/wJcEjscjtWnVO5vFj1Szs/LkZ5VklDADaAgAIJz1O8Y+hq1uP9xv0/wAaAA/61f8AdP8ASnVGWPmD5G6H09qduP8Acb9P8aAAf61v90f1p1Rhj5h+Rug9Penbj/cb9P8AGgAX7z/739BTqjVjuf5G6+3oKduP9xv0/wAaAMrwv/yL8f8A12n/APRz1r1maFbzWWkJBPGRIJJWIBBxukZh39DWjuP9xv0/xoAbbf8AHrF/uD+VOk/1T/7pqO3Y/ZYvkY/IPT0p0jHy2+RhwfSgCSobp3jtmeKJpnXBWNSAWOemTxUm4/3G/T/Gmux2j5G6j09aAKtleXtxMVutMktEC5DtMjZPphST/wDqpdQubq3aH7JYPebid2yRU28cfeI6/wBKt7j/AHG/T/Gmsx3J8jdfb0NAGb/aeqf9AGb/AMCYv/iqVr64OvabbPGYUntJ5pImwSro0QHI/wB9q09x/uN+n+NZtxbzv4nsLtYm8mK1uI3bcOGZoioxn0RvyoAb/aeqf9AGb/wJi/8Aiqktby9n1BEutLltU8tvnaZGGcr2BzWhuP8Acb9P8ajZj9qT5G+43p6rQBFfXN1bbPslg95uzu2SIm3pj7xGc/0pbGe4uA7XVo1o4wAjOrZHrlSR/wDqqxuP9xv0/wAaaGPmH5G6D096AJKav3n/AN7+go3H+436f401WO5/kbr7egoAkopu4/3G/T/GigAX7z/739BTqjUvuf5V6/3vYe1Oy/8AdX/vr/61AFfTrqO8tXkhztWeaI5GOUlZD+qmrVY3hov/AGTNhV/5CF7/ABf9PUvtWvl/7q/99f8A1qACP/VJ/uiiT/VP/ummxl/LXCr0H8X/ANaiQv5bZVeh/i/+tQBJTZP9U/8AumjL/wB1f++v/rU2Qv5bZVeh/i/+tQBJTZPuj/eH86Mv/dX/AL6/+tTXL7RlV6j+L3+lAElRy/6yH/fP/oJp2X/ur/31/wDWqOUv5kPyr9/+9/sn2oAmpp/1q/7p/pRl/wC6v/fX/wBamkv5g+Veh/i+ntQBJTR/rW/3R/WjL/3V/wC+v/rU0F/MPyr0H8X19qAJKav3n/3v6CjL/wB1f++v/rU1S+5/lXr/AHvYe1AElNj+6f8AeP8AOjL/AN1f++v/AK1NQvtOFXqf4vf6UAV9XZ10S+aHPmC3kK4GedpxxTtMZG0izaHHlmBCuBjjaMcVOwZlKsiFSMEE9f0qDS7ZbPSLO2RndYYEjVpDlmAUDJPrxQBxV/4fvZPFkuixWjtoWo6hFrFzMQdimMZeH6tNFA+O4eT0Nc94X0K9ttfsYLy31CHVLXUZJbiaPRgEfJYtIbw4DpIp6AsRuA2/KMewUUAeC2/g3WbvTNB8Py6ZfRab4jtI4dYfymX7L9lmeUb8j5C6sFGeuMV6L8M4tYm0abVfE9vNb6pciG3kSZCrBYIwhODzhpPNcHuHBrtaKAPLoPC8sNnZ3sGjvHqa+Mri5knMH7zyHvJvnDYzsMTD2waraFocn/FM2B0K4g1uw1CWXWL6WyZY5Y2WYSEzkbZRKWX5QWPIJA2161RQB4RZ+GdQn8BwWKaDdpNbeCdS06aGSyZM3mYCqjIG8sUJVhkHGQeK3b/w7ewazeTHR5pNJjn0qS4torcsJ4Y45Q4WMD59jsjFQCfl6E4r1qigDyrVIIZJNJ/svwvc6do0l3dzNI2jPcyLIQiqy25/1Ik3SfM6DG05C7snH0TRL2zh0hdQ0S+M8Oi6rpQY2DsYZjOjwrlVIVDHuCuDs6gHtXttFAHi39gTW+g6nbaz4dvL7UL/AEGytdKZLJpvJkW22mPzAMQFZcsSxUcg5yOLmq+D76XS/HNzPpbXeryzWRtLoQ7pJWjtrYF4mxnh1fkdx7V67RQB5c9i1n8QfN03SLq5luNYE1wmoaOxEKkbGuIb1PkC7RkIzM2DtwvQenSsiwu02PLCktkZ478U+ormAXNpNAzMglRkLIcEZGMg+tAHl+q/8LQbwjpbeFW04QmxiyI1Auf9WpyfM+XPbA+v05f4Z2/jZPiTqB8Q/alvBp0w36oJHTHmREhDnHp0OMV7vbI0NrFGgBVECglucAfSnSF/LbKr0P8AF/8AWoArWQ1MSN/aL2jpj5fIRlIPvkmjVBem3T+z3t1fzF3eejMCMjpgireX/ur/AN9f/WqOcv5Yyq/fX+L/AGh7UAZ+zxD/AM99M/78yf8AxVWbUaiFf+0ntX+Zdn2dGXHPOck+1W8v/dX/AL6/+tTXL7RlV6j+L3+lAEF8NROz+zXtU67/ALQjNnpjGCPesiNL8eMtPbVGtXxZXIiMEbLg74M/eJ5xnp6Gugy/91f++v8A61V5rNJtQtbqUESW+8Jtc4+Yc5HfoKALVFFFAHnFv4cvhrB0aSykGjaFLdX1lIVJWZ5lPkovr5fm3C47bYz3Fcfb+Gr+DSbODXtM1D954f0+2hEOjfbHBSALJBu/5d3VwW3EoMsPmyte70UAeIeJPCfiW41q70ezgvZLaCEeI7e9KYD6jHbiJIyy5G4yqJCoJ6k16T4Str6XwnPeXCS2Wo6tLNeMsyFXhLkiNWU8gqgjUg/3a6aigDyS0tBb+Bza6Z4Kuz4gtdDe2vZLi0eOOWRtgkRnBX7SXIZ8qWzg/MpbnJutEvp31+Gw0vUJbTUbDTxCw0drJZnhuyZP3YUFCEcY3gMQCRkDNe40UAeU+JPBESQ+M59I0BBcSraPYGC3AIdQuTFgcHKrkr/dGegqm/hi8k8X6imorqEd5ca6t3az22jCb90HQxv9rPCKqjaVLA4DAA5wfYqKAPJZfD8+neFdSmGgq1zfeJ7mS6mfTmupFtjdyOkoiX5pAMIQvI53bTVG10VotP1GHUrDWoEh8QDUrKWPRTPEI5LVVDPbKuGUt5uVVd6MQW2E5PtFFAHOeAxcL4RgW706LTmE0+yGK2a2Vk81tsghYlot4w2wnI3V0dFFAGBrouT4g0b7A0S3H7/BmUsm3YM9CDnOP1rRsl1UTH+0ZLNotvAgjZWz+JPHWnXNoj6pZ3uCZoVkiXnA2vgn/wBFirWX/ur/AN9f/WoArXwvj5f9nPbo/O7z0ZgRx0wRVTZ4h/576Z/35k/+KrSJfzB8q9D/ABfT2p2X/ur/AN9f/WoArWIvh5n9ovbu/G3yEZQBz1yTTL1dVMw/s6SzWLbyJ42Zs/gRx0q0C/mH5V6D+L6+1Oy/91f++v8A61AGSqeIdz/v9M6/88ZPQf7VadqLgWy/bWiafncYlIXrxgEk9MUql9z/ACr1/vew9qdl/wC6v/fX/wBagDEs7rWdQga5spLFLdpZFRZoX3AK5XnDY7VPs8Q/899M/wC/Mn/xVM8MF/7Ajwq/66b+L/pq/tWvl/7q/wDfX/1qAGQZ+xx7SA3ljBIzjisyRPEPlt+/0zof+WMn/wAVWlbl/ssWFX7g/i9vpTpC/ltlV6H+L/61AFK3XWvtCfa5rAw5+cRROGP0y2KtXouDaN9jaJZsrtMqkr94ZyAQelS5f+6v/fX/ANamuX2jKr1H8Xv9KAM3Z4h/576Z/wB+ZP8A4qprVdVFwv8AaMlm0XOBBGytn8SeOtXsv/dX/vr/AOtTWL7k+Vev972PtQBBfDUTs/s17VOu/wC0IzZ6Yxgj3rNW71mPxDZWN41i0c0UszNFG4ICFBjlu/mD8q28v/dX/vr/AOtWNqL+T4r0WRygaVLi2RS33iVWTj8Ij/nkAG3Ubf8AH0n+4381p2X/ALq/99f/AFqjYv8Aak+VfuN/F7r7UATU0f61v90f1oy/91f++v8A61NBfzD8q9B/F9fagCSmr95/97+goy/91f8Avr/61NUvuf5V6/3vYe1AElFNy/8AdX/vr/61FAAv3n/3v6CnVGofc/zL1/u+w96dh/7y/wDfP/16AKej2hsbGSJnDlrq4lyBj78zvj8N2KvVn6RdyX1jJKQqbbq4ixjP3JnTP47c/jV7D/3l/wC+f/r0AEf+qT/dFEn+qf8A3TTYw/lrhl6D+H/69Egfy2yy9D/D/wDXoAkpsn+qf/dNGH/vL/3z/wDXpsgfy2yy9D/D/wDXoAkpsn3R/vD+dGH/ALy/98//AF6a4faMsvUfw+/1oAkqOX/WQ/75/wDQTTsP/eX/AL5/+vUcofzIfmX7/wDd/wBk+9AE1NP+tX/dP9KMP/eX/vn/AOvTSH8wfMvQ/wAP096AJKaP9a3+6P60Yf8AvL/3z/8AXpoD+YfmXoP4fr70ASU1fvP/AL39BRh/7y/98/8A16aofc/zL1/u+w96AJKbH90/7x/nRh/7y/8AfP8A9emoH2nDL1P8Pv8AWgCSsWK7nsNahjupc2N9AggLDiKdeCmf9tSCAe6N6gVsYf8AvL/3z/8AXqlcafHqekLa3J/dsqMCvDIykMrA54IYAg+oFAF+ioLJbpLNEv3SSdcq0iDAfB4bHYkYJHQEkDPWp6ACiiigAooooAKKKKACiiigAooooAKyXnubzxNHBbOyWdihe5ZT/rJWXCRn6KS5+sdX70XRspRp5iFywxG0pO1Sf4jgc46474xkZyItO05NMsUtrdtwUlmkkGXkcnLOx7sSST9aALUf+qT/AHRRJ/qn/wB002MP5a4Zeg/h/wDr0SB/LbLL0P8AD/8AXoAkqOf/AFY/30/9CFOw/wDeX/vn/wCvUc4fyxll++v8P+0PegCamyfdH+8P50Yf+8v/AHz/APXprh9oyy9R/D7/AFoAkqK4Qyx+WHaMvld6H5lyDyPen4f+8v8A3z/9emsH3J8y9f7vsfegCpo9+17ayJcFRd2spt7lVzhZAAc8gcMrKw9mFX6zLjT549Yh1GxKB2Iju487RNH2bv8AOpxg+m4emNOgAooooAKKKKACiiigAooooAKKKKACoby7isLKa7uCRFChdyBk4AzwO59qmrNvNPuL/VIGnkRbG2IlWJSSZpQeC/TAXGQOctg8bRkAZpC3o021k1Vm+1zyNNJGTnydwYiMf7oIX3xnvWrUMofzIfmX7/8Ad/2T71Jh/wC8v/fP/wBegAP+tX/dP9KdUZD+YPmXof4fp707D/3l/wC+f/r0AA/1rf7o/rTqjAfzD8y9B/D9fenYf+8v/fP/ANegAX7z/wC9/QU6o1D7n+Zev932HvTsP/eX/vn/AOvQBV0my/s7TltvM8zbJI27bj7zs3T8auVQ0i8k1DTluSFj3SSLtAzja7L/AEq7h/7y/wDfP/16AG23/HrF/uD+VOk/1T/7pqO3D/ZYsMv3B/D7fWnSB/LbLL0P8P8A9egCSmyfdH+8P50Yf+8v/fP/ANemuH2jLL1H8Pv9aAJKa33k/wB7+how/wDeX/vn/wCvTWD7k+Zev932PvQAssqQQvLMwSONSzMewHJNczJZ3uq6bNq4t4zqDss2nQTjHlonzRo391nOdxHI3AHO2umBYkgOhKnBwOn60jB9yfMvX+77H3oAbZ3SXtpHcRBlVxyrjDKQcFSOxBBB9xTm/wCPpP8Acb+a1UtNNey1C7mgnUQXTCV4PK+7JgAsDnoQBkY6855NWWD/AGpPmX7jfw+6+9AE1NH+tb/dH9aMP/eX/vn/AOvTQH8w/MvQfw/X3oAkpq/ef/e/oKMP/eX/AL5/+vTVD7n+Zev932HvQBJRTcP/AHl/75/+vRQAL95/97+gp1Rqp3P87dfb0FO2n++36f4UAZXhn/kEzf8AYQvf/SqWteqWm2S2dq8UUkhVriaU7sdXlZz29WNW9p/vt+n+FABH/qk/3RRJ/qn/AN002NT5a/Ow4HpRIp8tvnY8H0oAkpsn+qf/AHTRtP8Afb9P8KbIp8tvnY8H0oAkpsn3R/vD+dG0/wB9v0/wprqdo+duo9PWgCSo5f8AWQ/75/8AQTTtp/vt+n+FRyqfMh+dvv8At/dNAE1NP+tX/dP9KNp/vt+n+FNKnzB87dD6e1AElNH+tb/dH9aNp/vt+n+FNCnzD87dB6e9AElNX7z/AO9/QUbT/fb9P8Kaqnc/zt19vQUASU2P7p/3j/Ojaf77fp/hTUU7T87dT6etAElR23/HrF/uD+VO2n++36f4VHbqfssXzsPkHp6UALdI0tnNGkrws0bKJI8bkJHUZBGR7isoaxLpLeT4hAjiUAJqQGIZOg+f/nk2T3+U9jzga0iny2+djwfSlaPcpVmJUjBBA5/SgBysGUMpBUjIIPWlqraWMGm2/k2SCKHdkRLwq5/ujoo9hxVV9Uvba5lW90mbyFc7Li1cTApgnLJw4PHQK3JGCaANSis+117S7y5W2hvYhdPnbbSny5jgZP7tsN0B7dq0KACiiigAoqhd67pllc/Zri9hFzkD7Ojb5eenyLlucjtVePWLu9Kf2bpFyYy6gzXv+jKFPJIUgyZA7FBk8ZHOADXrHm1ae9nFtoUXnA48y/ODBF6gc5dsdl4Hcjobl/p1tq1u1rqEYmt9w3RN9x++GHRh7Hj2qxHCIo1jiOxEAVVUABQOgAxQA20jeG0jjlnkuXQbWmlChnx3O0AZ+gAqao0U7T87dT6etO2n++36f4UAEf8Aqk/3RRJ/qn/3TTY1Plr87DgelEiny2+djwfSgCSo5/8AVj/fT/0IU7af77fp/hUc6nyx87ffX0/vCgCamyfdH+8P50bT/fb9P8Ka6naPnbqPT1oAkprfeT/e/oaNp/vt+n+FNZTuT526+3oaAJKz9STUg8c2lTIXjBLWswASYccbgNyt6HkeoPUXtp/vt+n+FNKnzB87dD6e1AFWx1a2vpXgG6C7iGZbWYBZEHrjoV5+8pKnsavVVutOtr1omuU3vC26KTADRn1VhyPfHUcU+4kuI4z9liSZxg7Xk2ZGeecHnHQd/UdaAJ6Kxx4kgg41a0vNMYLuYzwlowMEn96m5B0PUg+1aNnfWmoQedYXUN1Fnb5kEgdc+mRQBPRRRQAUUyWWOCJpZ5FjjUZZ3bAH1JrLPibTnH/EvabUiSAPsMTTL+Lj5B+LDpQBr1Wv9QttMtTcXjsqZCgIjOzseiqqgsx9gCaisbu+uYZJb3T/ALCMZjjeZXk7/eC5UdujN39OZf7Pg+3Nebc3BQJ5hwSFGeBnp1PTrQBRtJNUvrlbu6QWFop/c2wbdJLnjdLx8mB/ACfUnsNeo3U7R87dR6etO2n++36f4UANl/1kP++f/QTUlQyqfMh+dvv+3901JtP99v0/woAD/rV/3T/SnVGVPmD526H09qdtP99v0/woAB/rW/3R/WnVGFPmH526D096dtP99v0/woAF+8/+9/QU6o1U7n+duvt6CnbT/fb9P8KAMrwv/wAi/H/12n/9HPWvVPTrFLCyFvDJIUV3YFsE/M5Y9vU1a2n++36f4UANtv8Aj1i/3B/KnSf6p/8AdNR26n7LF87D5B6elOkU+W3zseD6UASU2T7o/wB4fzo2n++36f4U11O0fO3UenrQBJVHVb77DbxFEMk80oigiAzvcg4/AAEk9gCe1XNp/vt+n+FYtjA2p6sNYm8wRIGhsUfH3P4pcer4wP8AZAPG4igC/pOmppWnrbrI00hJeaZx800jHLOfqfyGB0FW2+8n+9/Q0bT/AH2/T/Cmsp3J87dfb0NAElZOm6jJc6jPZ3qLFe2u8vGvRomciKQezKp+jBh2rU2n++36f4VkaxazR3ltqViGa5tgfMVVBaaHI3oPU87l/wBpQO5oA2aaP9a3+6P61FaXEV9Zw3dpcebbzxrLFIuMOrDII47g08KfMPzt0Hp70ASU1fvP/vf0FG0/32/T/Cmqp3P87dfb0FAElFN2n++36f4UUAC/ef8A3v6CnVCsCbn5k6/89G9B707yE9ZP+/jf40AUtDupLzT5ZJsblvLqIYGOEnkQfoorRrE8NQqdKm5f/kIXvSRv+fqX3rX8hPWT/v43+NADo/8AVJ/uiiT/AFT/AO6ajjgQxrzJ0H/LRv8AGiSBBG3MnQ/8tG/xoAmpsn+qf/dNN8hPWT/v43+NNkgQRtzJ0P8Ay0b/ABoAmpsn3R/vD+dN8hPWT/v43+NNeBAo5k6j/lo3r9aAJqjl/wBZD/vn/wBBNHkJ6yf9/G/xqOSFRJFy/L/89G/un3oAsU0/61f90/0pvkJ6yf8Afxv8aaYE8wcydD/y0b296AJqaP8AWt/uj+tN8hPWT/v43+NNECeYeZOg/wCWje/vQBNTV+8/+9/QU3yE9ZP+/jf401YE3PzJ1/56N6D3oAmpsf3T/vH+dN8hPWT/AL+N/jTUgQqeZOp/5aN6/WgCao7b/j1i/wBwfyo8hPWT/v43+NR28Km2iJL8oOkjen1oAmk/1T/7pp1QyQII25k6H/lo3+NO8hPWT/v43+NADpPuj/eH86dULwIFHMnUf8tG9frTvIT1k/7+N/jQArqC8ZIBIbIyOnBqK9sLXUYRFewLNGrbgrdj0z+ppzQJuTmTr/z0b0PvTvIT1k/7+N/jQBlt4Y0pm2NDMVZTkG6lwen+1WhZWFrp0JisoFhjZtxVe56Z/QU4wJ5g5k6H/lo3t707yE9ZP+/jf40AIigXcpAALIpOB161LVcQr9pcZf7i/wDLRvU+9SeQnrJ/38b/ABoAcv3n/wB7+gp1QrAm5+ZOv/PRvQe9O8hPWT/v43+NADo/un/eP86dUKQIVPMnU/8ALRvX607yE9ZP+/jf40AOj/1Sf7ook/1T/wC6ajjgQxrzJ0H/AC0b/GiSBBG3MnQ/8tG/xoAmqOf/AFY/30/9CFHkJ6yf9/G/xqOaFRGOX++vWRv7w96ALFNk+6P94fzpvkJ6yf8Afxv8aa8CBRzJ1H/LRvX60ATU1vvJ/vf0NN8hPWT/AL+N/jTWgTcnMnX/AJ6N6H3oAmpp/wBav+6f6U3yE9ZP+/jf400wJ5g5k6H/AJaN7e9AE1NH+tb/AHR/Wm+QnrJ/38b/ABpogTzDzJ0H/LRvf3oAmqKEASzkAAmQE+/yrS+QnrJ/38b/ABqOOFTJLy/D/wDPRv7o96AILnQ9PvJ3mngPmyEF3SRkLYGBkqR2qvH4Z0ncJGtWkZSdpkmd9vPbLHHQVp+QnrJ/38b/ABpqQIVPMnU/8tG9frQBNTY/9Un+6Kb5Cesn/fxv8abHAhjXmToP+Wjf40ASSf6p/wDdNOqGSBBG3MnQ/wDLRv8AGneQnrJ/38b/ABoAdJ90f7w/nTqheBAo5k6j/lo3r9ad5Cesn/fxv8aACX/WQ/75/wDQTUlV5IVEkXL8v/z0b+6fepPIT1k/7+N/jQA4/wCtX/dP9KdUJgTzBzJ0P/LRvb3p3kJ6yf8Afxv8aAHD/Wt/uj+tOqEQJ5h5k6D/AJaN7+9O8hPWT/v43+NADl+8/wDvf0FOqFYE3PzJ1/56N6D3p3kJ6yf9/G/xoApaFdS3ukJPcENIZJVJAxnEjAfoK0axPDEKnQI8l/8AXTdJG/56v71r+QnrJ/38b/GgAtv+PWL/AHB/KnSf6p/901DbwqbaIkvyg6SN6fWnSQII25k6H/lo3+NAE1Nk+6P94fzpvkJ6yf8Afxv8aq6lIlhp0tz5dxMYwCsUbMzSHIAUDPUnAoAuCRDIYwyl1AYrnkA5wcfgfyNDfeT/AHv6Gs7SNLa1tDLeM5vblvNuWErEbyPujn7qjCj2GTySautAm5OZOv8Az0b0PvQBNTW+8n+9/Q03yE9ZP+/jf401oE3JzJ1/56N6H3oAmqNv+PpP9xv5rR5Cesn/AH8b/GozCv2lBl/uN/y0b1HvQBJb20NpAIbaJYolJIRBgDJycD6mnD/Wt/uj+tUtT0pdR02a2Wee3kdCI545G3Qvj5XHPUHmmaXI13A32qOSK4hYxTLucDcCeVyeVIww9iO+aANKmr95/wDe/oKb5Cesn/fxv8aasCbn5k6/89G9B70ATUVH5Cesn/fxv8aKAHL95/8Ae/oKdUaxpuf5F6+nsKd5af3F/KgCGxgjt7dkhQIpmlcgf3mkZmP4kk1YrJ8PsZ9Nleb52F9doCwz8q3MiqPwAA/CtTy0/uL+VABH/qk/3RRJ/qn/AN002ONDGuUXoO1EkaCNsIvQ9qAJKbJ/qn/3TR5af3F/KmyRoI2wi9D2oAkpsn3R/vD+dHlp/cX8qa8aBRhF6jt70ASVHL/rIf8AfP8A6Cad5af3F/Ko5Y08yH5F+/6f7JoAmpp/1q/7p/pR5af3F/KmmNPMHyL0Pb6UASU0f61v90f1o8tP7i/lTRGnmH5F6Dt9aAJKav3n/wB7+go8tP7i/lTVjTc/yL19PYUASU2P7p/3j/Ojy0/uL+VNSNCpyi9T296AJKjtv+PWL/cH8qd5af3F/Ko7eNDaxZRfuDt7UASSf6p/9006o5I0EbYReh7U7y0/uL+VABJ90f7w/nTqjeNAowi9R296d5af3F/KgAb7yf739DTqjaNNyfIvX09jTvLT+4v5UAB/1q/7p/pTqjMaeYPkXoe30p3lp/cX8qAGr/x9P/uL/NqkqFY0+1P8i/cXt7tUnlp/cX8qABfvP/vf0FOqNY03P8i9fT2FO8tP7i/lQAR/dP8AvH+dOqNI0KnKL1Pb3p3lp/cX8qACP/VJ/uiiT/VP/ummxxoY1yi9B2okjQRthF6HtQBJUc/+rH++n/oQp3lp/cX8qjnjQRjCL99e3+0KAJqbJ90f7w/nR5af3F/KmvGgUYReo7e9AElNb7yf739DR5af3F/KmtGm5PkXr6exoAkpp/1q/wC6f6UeWn9xfyppjTzB8i9D2+lAElNH+tb/AHR/Wjy0/uL+VNEaeYfkXoO31oAkqOL/AFk3++P/AEEU7y0/uL+VRxRp5k3yL9/0/wBkUATU2P7p/wB4/wA6PLT+4v5U1I0KnKL1Pb3oAkpsf+qT/dFHlp/cX8qbHGhjXKL0HagB0n+qf/dNOqOSNBG2EXoe1O8tP7i/lQASfdH+8P506o3jQKMIvUdveneWn9xfyoAbL/rIf98/+gmpKhljTzIfkX7/AKf7JqTy0/uL+VAAf9av+6f6U6ozGnmD5F6Ht9Kd5af3F/KgAH+tb/dH9adUYjTzD8i9B2+tO8tP7i/lQAL95/8Ae/oKdUaxpuf5F6+nsKd5af3F/KgBltDHbw+XAixpvYhVGBksSf1NS1k+HCZ9DjknJkcyzAs/JwJWA5+gxWp5af3F/KgBtt/x6xf7g/lTpP8AVP8A7pqO3jQ2sWUX7g7e1OkjQRthF6HtQBJTZPuj/eH86PLT+4v5U140CjCL1Hb3oAkrz95rnSNK1HwpbyOLyS98jT5N2WEFzvYSZP8AzzAn/wC/Nd95af3F/Kqc+k2M2qW1/JbI11AGWOT0BBzx0PU9emTjqaAOGTWrrSby80bR4VhJ1WSASxW3nSskdrA33Sw3P84GT0VOhxT77xlrmm2inUbYxSzW1zFaloPLM10u3yTtJONwfkcgFW6iutufCujXay+dZ4aW4+1NJHK8cgl2BN6upDKdoA4I4qN/CWhm2sLY6ehjsrsXcGXYsswyQ5bOWOTn5ic96AOSHjnV10OBVCPf26R2d7I0W7/S2nMJIUYB/wBVIQoxksgyBU8/iLxHAkUXlsk0l5BbwXV7Z+UGWVtrZQMclSM8EZBA4611Y8L6MINQh+wJ5epSmW6G5vnfj5hz8pyM/LjB5681BF4T0a3lijW1d8Si6Mk08kkjSIV2szsxZsehJHtQBs26Sx2sSXMommVAJJAm0O2OTjtk9qcP9a3+6P60eWn9xfypojTzD8i9B2+tAElNX7z/AO9/QUeWn9xfypqxpuf5F6+nsKAJKKb5af3F/KigBqyJuf5l6+vsKd5if31/OhfvP/vf0FOoAxvDUiDSZssv/IQve/8A09S1r+Yn99fzqO12+S2zGPMfp67zn9amoAjjkQRrll6DvRJIhjbDL0PenR/6pP8AdFEn+qf/AHTQAeYn99fzpskiGNsMvQ96kpsn+qf/AHTQAeYn99fzpryIVGGXqO/vUlNk+6P94fzoAPMT++v51HLInmQ/Mv3/AF/2TU1Ry/6yH/fP/oJoAd5if31/OmmRPMHzL0Pf6VJTT/rV/wB0/wBKADzE/vr+dNEieYfmXoO/1qSmj/Wt/uj+tAB5if31/OmrIm5/mXr6+wqSmr95/wDe/oKADzE/vr+dNSRApyy9T396kpsf3T/vH+dAB5if31/Oo7eRBaxZZfuDv7VNUdt/x6xf7g/lQASSIY2wy9D3p3mJ/fX86JP9U/8AumnUARvIhUYZeo7+9O8xP76/nRJ90f7w/nTqAI2kTcnzL19fY07zE/vr+dDfeT/e/oadQBGZE8wfMvQ9/pTvMT++v50H/Wr/ALp/pTqAIVkT7U/zL9xe/u1SeYn99fzpq/8AH0/+4v8ANqkoAjWRNz/MvX19hTvMT++v50L95/8Ae/oKdQBGkiBTll6nv707zE/vr+dEf3T/ALx/nTqAI45EEa5Zeg70SSIY2wy9D3p0f+qT/dFEn+qf/dNAB5if31/Oo55EMYwy/fXv/tCpqjn/ANWP99P/AEIUAO8xP76/nTXkQqMMvUd/epKbJ90f7w/nQAeYn99fzprSJuT5l6+vsakprfeT/e/oaADzE/vr+dNMieYPmXoe/wBKkpp/1q/7p/pQAeYn99fzpokTzD8y9B3+tSU0f61v90f1oAPMT++v51HFInmTfMv3/X/ZFTVHF/rJv98f+gigB3mJ/fX86akiBTll6nv71JTY/un/AHj/ADoAPMT++v502ORBGuWXoO9SU2P/AFSf7ooAbJIhjbDL0PeneYn99fzok/1T/wC6adQBG8iFRhl6jv707zE/vr+dEn3R/vD+dOoAhlkTzIfmX7/r/smpPMT++v502X/WQ/75/wDQTUlAEZkTzB8y9D3+lO8xP76/nQf9av8Aun+lOoAjEieYfmXoO/1p3mJ/fX86B/rW/wB0f1p1AEayJuf5l6+vsKd5if31/OhfvP8A739BTqAMbwxIg0CPLL/rpu//AE1etfzE/vr+dJEwZCVII3MOPqafQBDbyILWLLL9wd/anSSIY2wy9D3otv8Aj1i/3B/KnSf6p/8AdNAB5if31/OmvIhUYZeo7+9SU2T7o/3h/OgA8xP76/nTWkTcnzL19fY1JTW+8n+9/Q0AHmJ/fX86a0ibk+Zevr7GpKa33k/3v6GgA8xP76/nUbSJ9qT5l+43f3Wpqjb/AI+k/wBxv5rQA7zE/vr+dNEieYfmXoO/1qSmj/Wt/uj+tAB5if31/OmrIm5/mXr6+wqSmr95/wDe/oKADzE/vr+dFOooAjWRNz/MvX19hTvMT++v50L95/8Ae/oKdQBjeGpEGkzZZf8AkIXvf/p6lrX8xP76/nWLBFfaQ929nam/tJ7h5hBHIFkiZm+YLvIUqTufqMEnrnizFqt5JMiPoGoxKzAGR5Lfag9TiUnA9gTQBfjkQRrll6DvRJIhjbDL0PemSSvBZeZHBJcMqjEURUM303ED8yKzpNYvvLb/AIpzU+h/5aW3/wAeoA1vMT++v502SRDG2GXoe9VLTUbq4uBHNo19aKQf3szwFR/3xIx/SptQuJLazZ4bSa7bp5cJQN9fnZR+tAE/mJ/fX86a8iFRhl6jv71m/wBsX3/Quan/AN/LX/49Vi1vZ7vcJ9MurIKVwbhoju57bHb9cUAXPMT++v51HLInmQ/Mv3/X/ZNRX15PabPI026vt2c/Z2iGzGOu916+2elUJNYvfMh/4pzU/v8A/PS25+U/9NqANjzE/vr+dNMieYPmXoe/0qOyuZbqEvPZT2TBsCOdoyxHr8jMMfjniq97qFzbXipDpF7eLsz5kDwhe3HzyKf0oAveYn99fzpokTzD8y9B3+tZv9sX3/Quan/38tf/AI9V+2ledBJJBJbsyjMUpUsvJ67SR+RNAEvmJ/fX86asibn+Zevr7CqM+qXcU7xx6FqE6qcCSOS3Ct7jdKD+YFQrrF9uf/inNT6/89Lb0H/TagDW8xP76/nTUkQKcsvU9/enqSVBIKkjoe1ZCaxfbT/xTmp9T/y0tvX/AK7UAa3mJ/fX86jt5EFrFll+4O/tVGPVr15FVvD+pIGIBdpLbC+5xKT+VXFkaLTlkjhedljBEcZUM3HQbiB+ZFAEkkiGNsMvQ96d5if31/OsmTWL7y2/4pzU+h/5aW3/AMeqxa6ldXFysUui31qjZzLK8BVeO+2Qn24HegC48iFRhl6jv707zE/vr+dQX9xJbWwkhtJrtt6jy4Sgbr1+dlH61S/ti+/6FzU/+/lr/wDHqANJpE3J8y9fX2NO8xP76/nVK0vri6mCz6Vd2QHIed4SG4PA2Ox/Opb67mtFQwafc3pYnIt2jG3673X9M0ATGRPMHzL0Pf6U7zE/vr+dZJ1i+8xf+Kc1Pof+Wlt7f9Nqv2V1NdRs09hcWRBwEnaMlvcbGYfnQA9ZE+1P8y/cXv7tUnmJ/fX86z7u/uLXUGSDSry9UxKS8DwgA5bj55FOfwqP+2L7/oXNT/7+Wv8A8eoA0lkTc/zL19fYU7zE/vr+dQ2U8lxC0k1rNaMW5imKFhwP7jMP1qtcandwXDxx6Hf3CqeJYntwrfTdKD+YFAF1JECnLL1Pf3p3mJ/fX86yU1i+2n/inNT6n/lpbev/AF2rWjYvGrMjIWAJRsZX2OMj8qAGxyII1yy9B3okkQxthl6HvWYur3qqAPDupMAMAiS2wf8AyNS/2tev8reH9SjDcF2ktsL7nEpP5UAanmJ/fX86jnkQxjDL99e/+0KkkYpGzKjOVBIRcZb2GcD86x59YvTGP+Kc1MfOv/LS2/vD/ptQBseYn99fzpryIVGGXqO/vVK31O7nuEjk0O/t1Y8yyvblV+u2Un8gatXszwWjSRW8ty6lcRRFQzfMOm4ge/JFAEvmJ/fX86a0ibk+Zevr7Gs3+2L7/oXNT/7+Wv8A8eqa1v7m6uFSfSbyyUZIkneEqT6fJIxz+GOKAL3mJ/fX86aZE8wfMvQ9/pUN9dzWioYNPub0sTkW7Rjb9d7r+maonWL7zF/4pzU+h/5aW3t/02oA1vMT++v500SJ5h+Zeg7/AFqGxu5rtXM+n3NkVIwLhozu+mx2/XFRXl9cWtztg0u7vQyAloGiAXk8He6n8qALvmJ/fX86jikTzJvmX7/r/sis/wDti+/6FzU/+/lr/wDHqt6fPJcRyyTWs1o5k5imKFh8o/uMw/WgCz5if31/OmpIgU5Zep7+9U7rUrq3uWii0W+ukXGJYngCtx23SA+3I7VXTWL7af8AinNT6n/lpbev/XagDW8xP76/nTY5EEa5Zeg70sEjSwJJJC8DMMmOQqWX2O0kfkTWZ/a16nyr4f1KQLwHWS2w3uMyg/nQBpSSIY2wy9D3p3mJ/fX86yZNYvvLb/inNT6H/lpbf/Hq1pGKRsyozlQSEXGW9hnA/OgBryIVGGXqO/vTvMT++v51kvrF9tH/ABTmp9R/y0tvX/rtU0GqXcs6RyaFqECscGSSS3Kr7nbKT+QNAFyWRPMh+Zfv+v8AsmpPMT++v51BeyvBGkkcElwyvxFEVDN8p6biB+ZFUv7Yvv8AoXNT/wC/lr/8eoA0jInmD5l6Hv8ASneYn99fzqjaahc3N4Em0i9s12E+ZO8JXtx8kjH9KsXtzLawh4LKe9YtgxwNGGA9fnZRj8c80ASCRPMPzL0Hf607zE/vr+dZI1i+8xv+Kc1PoP8Alpbe/wD02q7Y3k93v8/Tbqx24x9oaI7856bHbp7460ATrIm5/mXr6+wp3mJ/fX86p3d7PaSYg0y6vQx5Nu0Q28Drvdf0zVaS91a8hMVlpklhK4IE960brH6NsjclvplenUUAN8MSINAjyy/66bv/ANNXrX8xP76/nVfTLNNP02G0ieSRYV2B5W3O+D1Y9yepq1QBDbyILWLLL9wd/anSSIY2wy9D3otv+PWL/cH8qdJ/qn/3TQAeYn99fzpryIVGGXqO/vUlNk+6P94fzoAPMT++v501pE3J8y9fX2NSU1vvJ/vf0NAB5if31/OmtIm5PmXr6+xqSmt95P8Ae/oaADzE/vr+dRtIn2pPmX7jd/damqNv+PpP9xv5rQA7zE/vr+dNEieYfmXoO/1qSmj/AFrf7o/rQAeYn99fzpqyJuf5l6+vsKkpq/ef/e/oKADzE/vr+dFOooAjVxufhuv90+gp3mD0b/vk0L95/wDe/oKdQBDA4EZ4b77fwn+8ak8wejf98mmwf6s/77/+hGpKAI43AjXhug/hNEjgxtw3Q/wmnR/6pP8AdFEn+qf/AHTQAeYPRv8Avk02RwY24bof4TUlNk/1T/7poAPMHo3/AHyaa7gqOG6j+E+tSU2T7o/3h/OgA8wejf8AfJqOVx5kPDff/un+6amqOX/WQ/75/wDQTQA7zB6N/wB8mmlx5g4bof4T7VJTT/rV/wB0/wBKADzB6N/3yaaHHmHhug/hPvUlNH+tb/dH9aADzB6N/wB8mmq43Pw3X+6fQVJTV+8/+9/QUAHmD0b/AL5NNRwFPDdT/CfWpKbH90/7x/nQAeYPRv8Avk1HbuBaxcN9wfwn0qao7b/j1i/3B/KgAkcGNuG6H+E07zB6N/3yaJP9U/8AumnUARu4Kjhuo/hPrTvMHo3/AHyaJPuj/eH86dQBGzjcnDdf7p9DTvMHo3/fJob7yf739DTqAIy48wcN0P8ACfaneYPRv++TQf8AWr/un+lOoAhVx9qfhvuL/CfVqk8wejf98mmr/wAfT/7i/wA2qSgCNXG5+G6/3T6CneYPRv8Avk0L95/97+gp1AEaOAp4bqf4T607zB6N/wB8miP7p/3j/OnUARxuBGvDdB/CaJHBjbhuh/hNOj/1Sf7ook/1T/7poAPMHo3/AHyajncGMcN99f4T/eFTVHP/AKsf76f+hCgB3mD0b/vk013BUcN1H8J9akpsn3R/vD+dAB5g9G/75NNZxuThuv8AdPoakprfeT/e/oaADzB6N/3yaaXHmDhuh/hPtUlNP+tX/dP9KADzB6N/3yaaHHmHhug/hPvUlNH+tb/dH9aADzB6N/3yajiceZNw33/7p/uipqji/wBZN/vj/wBBFADvMHo3/fJpqOAp4bqf4T61JTY/un/eP86ADzB6N/3yabG4Ea8N0H8JqSmx/wCqT/dFADZHBjbhuh/hNO8wejf98miT/VP/ALpp1AEbuCo4bqP4T607zB6N/wB8miT7o/3h/OnUAQyuPMh4b7/90/3TUnmD0b/vk02X/WQ/75/9BNSUARlx5g4bof4T7U7zB6N/3yaD/rV/3T/SnUARhx5h4boP4T707zB6N/3yaB/rW/3R/WnUARq43Pw3X+6fQU7zB6N/3yaF+8/+9/QU6gCNHAU8N1P8J9ad5g9G/wC+TRH90/7x/nTqAIbdwLWLhvuD+E+lOkcGNuG6H+E0W3/HrF/uD+VOk/1T/wC6aADzB6N/3yaa7gqOG6j+E+tSU2T7o/3h/OgA8wejf98mms43Jw3X+6fQ1JTW+8n+9/Q0AHmD0b/vk01nG5OG6/3T6GpKa33k/wB7+hoAPMHo3/fJqNnH2pOG+438J9Vqao2/4+k/3G/mtADvMHo3/fJpoceYeG6D+E+9SU0f61v90f1oAPMHo3/fJpquNz8N1/un0FSU1fvP/vf0FAB5g9G/75NFOooA/9k=)

Figure 8‑6: Use Case on System level

## Page Wireframes

### Home page

Graphical user interface, application

Description automatically generated

Figure 8‑7: Wireframe of Home screen on website

### Log in screen

Graphical user interface

Description automatically generated

Figure 8‑8: Wireframe of Log in screen on website

### View Cameras screen

Graphical user interface, application, website

Description automatically generated

Figure 8‑9: Wireframe of camera view on website

### Add camera screen

Graphical user interface, application, Teams

Description automatically generated

Figure 8‑10: Wireframe of Adding camera screen on the website

Manage cameras Screen

Graphical user interface, application, website

Description automatically generated

Figure 8‑11: Wireframe of Camera settings manager

## Sequence Diagrams

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGNhbGx1bSB0ZXJyaWxsAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADOTMAAJKSAAIAAAADOTMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMjE6MTA6MTMgMjE6NDU6NTcAMjAyMToxMDoxMyAyMTo0NTo1NwAAAGMAYQBsAGwAdQBtACAAdABlAHIAcgBpAGwAbAAAAP/hCyFodHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIxLTEwLTEzVDIxOjQ1OjU3LjkyNTwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5jYWxsdW0gdGVycmlsbDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAIOAioDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6Pw/95f8Avn/69NUPuf5l6/3fYe9SU1fvP/vf0FABh/7y/wDfP/16jYP9qT5l+438PuvvU1Rt/wAfSf7jfzWgB2H/ALy/98//AF6a4faMsvUfw+/1qSmyfdH+8P50AGH/ALy/98//AF6bIH8tssvQ/wAP/wBepKbJ/qn/AN00AGH/ALy/98//AF6MP/eX/vn/AOvTqKAI0D7Thl6n+H3+tOw/95f++f8A69Ef3T/vH+dOoAjUPuf5l6/3fYe9Ow/95f8Avn/69C/ef/e/oKdQBCwf7UnzL9xv4fdfepMP/eX/AL5/+vTW/wCPpP8Acb+a1JQBG4faMsvUfw+/1p2H/vL/AN8//Xok+6P94fzp1AEcgfy2yy9D/D/9enYf+8v/AHz/APXok/1T/wC6adQA3D/3l/75/wDr01A+04Zep/h9/rUlNj+6f94/zoAMP/eX/vn/AOvTVD7n+Zev932HvUlNX7z/AO9/QUAGH/vL/wB8/wD16jYP9qT5l+438PuvvU1Rt/x9J/uN/NaAHYf+8v8A3z/9emsH3J8y9f7vsfepKa33k/3v6GgAw/8AeX/vn/69NkD+W2WXof4f/r1JTZP9U/8AumgAw/8AeX/vn/69GH/vL/3z/wDXp1FAEaB9pwy9T/D7/WnYf+8v/fP/ANeiP7p/3j/OnUARqH3P8y9f7vsPenYf+8v/AHz/APXoX7z/AO9/QU6gCFg/2pPmX7jfw+6+9SYf+8v/AHz/APXprf8AH0n+4381qSgCNg+5PmXr/d9j707D/wB5f++f/r0N95P97+hp1AEcgfy2yy9D/D/9enYf+8v/AHz/APXok/1T/wC6adQA3D/3l/75/wDr01A+04Zep/h9/rUlNj+6f94/zoAMP/eX/vn/AOvTVD7n+Zev932HvUlNX7z/AO9/QUAGH/vL/wB8/wD16jYP9qT5l+438PuvvU1Rt/x9J/uN/NaAHYf+8v8A3z/9emsH3J8y9f7vsfepKa33k/3v6GgAw/8AeX/vn/69NkD+W2WXof4f/r1JTZP9U/8AumgAw/8AeX/vn/69GH/vL/3z/wDXp1FAEaB9pwy9T/D7/WnYf+8v/fP/ANeiP7p/3j/OnUARqH3P8y9f7vsPenYf+8v/AHz/APXoX7z/AO9/QU6gCFg/2pPmX7jfw+6+9SYf+8v/AHz/APXprf8AH0n+4381qSgCNg+5PmXr/d9j707D/wB5f++f/r0N95P97+hp1AEcgfy2yy9D/D/9enYf+8v/AHz/APXok/1T/wC6adQA3D/3l/75/wDr01A+04Zep/h9/rUlNj+6f94/zoAMP/eX/vn/AOvTVD7n+Zev932HvUlNX7z/AO9/QUAGH/vL/wB8/wD16MP/AHl/75/+vTqKAG5f+6v/AH1/9amqX3P8q9f73sPapKav3n/3v6CgAy/91f8Avr/61RsX+1J8q/cb+L3X2qao2/4+k/3G/mtADsv/AHV/76/+tTXL7RlV6j+L3+lSU2T7o/3h/OgAy/8AdX/vr/61NkL+W2VXof4v/rVJTZP9U/8AumgAy/8AdX/vr/61GX/ur/31/wDWp1FAEaF9pwq9T/F7/SnZf+6v/fX/ANaiP7p/3j/OnUARqX3P8q9f73sPanZf+6v/AH1/9ahfvP8A739BTqAIWL/ak+VfuN/F7r7VJl/7q/8AfX/1qa3/AB9J/uN/NakoAjcvtGVXqP4vf6U7L/3V/wC+v/rUSfdH+8P506gCOQv5bZVeh/i/+tTsv/dX/vr/AOtRJ/qn/wB006gBuX/ur/31/wDWpqF9pwq9T/F7/SpKbH90/wC8f50AGX/ur/31/wDWpql9z/KvX+97D2qSmr95/wDe/oKADL/3V/76/wDrVGxf7Unyr9xv4vdfapqjb/j6T/cb+a0AOy/91f8Avr/61NYvuT5V6/3vY+1SU1vvJ/vf0NABl/7q/wDfX/1qbIX8tsqvQ/xf/WqSmyf6p/8AdNABl/7q/wDfX/1qMv8A3V/76/8ArU6igCNC+04Vep/i9/pTsv8A3V/76/8ArUR/dP8AvH+dOoAjUvuf5V6/3vYe1Oy/91f++v8A61C/ef8A3v6CnUAQsX+1J8q/cb+L3X2qTL/3V/76/wDrU1v+PpP9xv5rUlAEbF9yfKvX+97H2p2X/ur/AN9f/Wob7yf739DTqAI5C/ltlV6H+L/61Oy/91f++v8A61En+qf/AHTTqAG5f+6v/fX/ANamoX2nCr1P8Xv9Kkpsf3T/ALx/nQAZf+6v/fX/ANamqX3P8q9f73sPapKav3n/AN7+goAMv/dX/vr/AOtUbF/tSfKv3G/i919qmqNv+PpP9xv5rQA7L/3V/wC+v/rU1i+5PlXr/e9j7VJTW+8n+9/Q0AGX/ur/AN9f/Wpshfy2yq9D/F/9apKbJ/qn/wB00AGX/ur/AN9f/Woy/wDdX/vr/wCtTqKAI0L7ThV6n+L3+lOy/wDdX/vr/wCtRH90/wC8f506gCNS+5/lXr/e9h7U7L/3V/76/wDrUL95/wDe/oKdQBCxf7Unyr9xv4vdfapMv/dX/vr/AOtTW/4+k/3G/mtSUARsX3J8q9f73sfanZf+6v8A31/9ahvvJ/vf0NOoAjkL+W2VXof4v/rU7L/3V/76/wDrUSf6p/8AdNOoAbl/7q/99f8A1qahfacKvU/xe/0qSmx/dP8AvH+dABl/7q/99f8A1qapfc/yr1/vew9qkpq/ef8A3v6CgAy/91f++v8A61GX/ur/AN9f/Wp1FAEfnp6Sf9+2/wAKas6bn4k6/wDPNvQe1TU1fvP/AL39BQA3z09JP+/bf4VGZl+0ocP9xv8Alm3qParFRt/x9J/uN/NaADz09JP+/bf4U150KjiTqP8Alm3r9Kmpsn3R/vD+dADfPT0k/wC/bf4U2SdDG3EnQ/8ALNv8KmqC+ureysZrm8njt4I0JeWVwiqPUk8CgB/np6Sf9+2/wpsl3FFG0kpZEQFmZkYBQOpJxWSL/VdYP/EqhFhZEHbe3KhnlHZo4wfu+77T6AjmpIfC+nbhJqKyarcA5M2oN5vPHIT7idP4FUdfU0AQ/wDCZ+HYy6f2vbSOjHckLeYy89wuSOooHjfw7/HqccQyBmVHjGT7sBW3FFHBEsUEaxxqMKiLgD6AU+gDO0/XNM1RXk0y9hvEz963bzB0Hdc+o/Orvnp6Sf8Aftv8KpX3h/SNRcyXum20kxGBN5YEi85yHHzA55yDVRtN1bS2L6Nem8hzk2WoyM3/AHxNyw/4Fv8AwoA1DMv2lDh/uN/yzb1HtUnnp6Sf9+2/wrO07WrfUdQNsVe2voYi09nNgSRgkAH0ZTg4ZSQfWtWgCF50KjiTqP8Alm3r9Kd56ekn/ftv8KdJ90f7w/nTqAIZJ0MbcSdD/wAs2/wp3np6Sf8Aftv8KdJ/qn/3TTqAI/PT0k/79t/hTUnQKeJOp/5Zt6/SpqbH90/7x/nQA3z09JP+/bf4U1Z03PxJ1/55t6D2qamr95/97+goAb56ekn/AH7b/CozMv2lDh/uN/yzb1HtVio2/wCPpP8Acb+a0AHnp6Sf9+2/wprTpuTiTr/zzb0PtU1Nb7yf739DQA3z09JP+/bf4U2SdDG3EnQ/8s2/wqamyf6p/wDdNADfPT0k/wC/bf4UeenpJ/37b/CpKKAIUnQKeJOp/wCWbev0p3np6Sf9+2/wqC81Gz0uzNzqNzFbQ7yoeRgMsScKPUnsByazhq2r6gc6To5hgIO251JzDn3EQBf04bYevoMgGss6bn4k6/8APNvQe1O89PST/v23+FZP9la1MWNz4haEsf8Alxs448dcf63zPb8vfFOOiX5VB/wlGrAqRk+VafN9f3H8sUAaBmX7Shw/3G/5Zt6j2qTz09JP+/bf4VjDT/ENqS8GsW18VHype2m0tyMjfGQB067Dj3p41+ayiLeIdOk09VODcQv9og+u5QGUepdFHvQBqNOm5OJOv/PNvQ+1O89PST/v23+FAkSVYpImV0f5lZTkMCDgg1JQBDJOhjbiTof+Wbf4U7z09JP+/bf4U6T/AFT/AO6adQBH56ekn/ftv8Kak6BTxJ1P/LNvX6VNTY/un/eP86AG+enpJ/37b/CmrOm5+JOv/PNvQe1TU1fvP/vf0FADfPT0k/79t/hUZmX7Shw/3G/5Zt6j2qxUbf8AH0n+4381oAPPT0k/79t/hTWnTcnEnX/nm3ofapqa33k/3v6GgBvnp6Sf9+2/wqG6vre3tZJbhzFGo5eRSqjPHJIq1WD43/5E2++if+jFoA2vPT0k/wC/bf4UeenpJ/37b/CpKKAIUnQKeJOp/wCWbev0p3np6Sf9+2/wp0f3T/vH+dOoAhWdNz8Sdf8Anm3oPaneenpJ/wB+2/wrKuNezeTWWiW41S8jfbKqTKkVucD/AFr8lfoFZu+3HNIdBm1FvM16+mnBUD7HbO0MCHGD907n7/eJHQhQaAHX/iXRdNvUTUNTtrVwrDZNIEYng4Cnk8c1D/wmvh/zNn285zj/AFEmPz24rUs9MsNOBGn2NtagjB8iFUz+Qq1QBiw+LNAu7lILbV7SSfJ/dCQb+h/h69j+Va3np6Sf9+2/wpl3Y2l/D5V/aw3MZ/gmjDr69D9BWW3hmG1+fQbqbSZASwjhYtbnPYwk7QP93afegDVknQxtxJ0P/LNv8Kd56ekn/ftv8Kxv7buNP/ceJYIrYP8ALHewsTbyH0OeYyfRsjsGJrdoAj89PST/AL9t/hTUnQKeJOp/5Zt6/SpqbH90/wC8f50AN89PST/v23+FNWdNz8Sdf+ebeg9qmpq/ef8A3v6CgBvnp6Sf9+2/wo89PST/AL9t/hUlFABTV+8/+9/QUeWn9xfypqxpuf5F6+nsKAJKjb/j6T/cb+a07y0/uL+VRtGn2pPkX7jdvdaAJqbJ90f7w/nR5af3F/KmvGgUYReo7e9ADby8t9Ps5bu9mWGCFdzyOcBRWVaWVzq12uo6zHshjcNZWLD/AFWOksnrIeoHRPrk1GyLrXiVoto+w6S6s2B/rLkjcAfZFKt/vMP7tb9ABRRRQAUUUUAFFFFAFDVdJj1OJGWRra7gJa2u4h88Le3qpwMqeCOtR6Tqc1y0llqcS2+o24/eIh+SVe0keeSp9Dyp4PYnTrI8QaZLeQw32nRo2qaeWltBI21XJUho2P8AdYcexAPagDVk+6P94fzp1UrG7ttU0u2vrRf3Vwiuu5cMAccEdiOhHY5FW/LT+4v5UAEn+qf/AHTTqjkjQRthF6HtTvLT+4v5UAOpsf3T/vH+dHlp/cX8qakaFTlF6nt70ASU1fvP/vf0FHlp/cX8qasabn+Revp7CgCSo2/4+k/3G/mtO8tP7i/lUbRp9qT5F+43b3WgCamt95P97+ho8tP7i/lTWjTcnyL19PY0ASU2T/VP/umjy0/uL+VNkjQRthF6HtQBJWZqerG2uY9PsIxc6jOu5Is/LEnTzJD2XPHqx4Hcg1vUBpdkht7ZLi8uZRBaQHgSykEgEgHCgBmJxwqk9qdo2kppdsxdvOvLgiS6uCOZZMfoo6KvQDAoAi0zQY7OYXuoTf2lqeCPts0SqyKeqRgD5F9hye5J5rWoooAKKKKACiiigDBm0OTS5TeeGgImBLSacW2285PJIHSNyf4hwSTuBJyNHS9VttWt3ktt6tDIYp4ZV2vDIACUYeuCDxkEEEEggm7WHrVjLaTPrmkWxnvY0Antl4+1xA8rjp5gGdh9flJweADak/1T/wC6adVW3uLS/wBNjvLF45reeISRSp0ZSMgirHlp/cX8qAHU2P7p/wB4/wA6PLT+4v5U1I0KnKL1Pb3oAkpq/ef/AHv6Cjy0/uL+VNWNNz/IvX09hQBJUbf8fSf7jfzWneWn9xfyqNo0+1J8i/cbt7rQBNTW+8n+9/Q0eWn9xfyprRpuT5F6+nsaAJKwfG//ACJt99E/9GLW55af3F/KsHxsiDwdfEKoOE7f9NFoA6Cim+Wn9xfyo8tP7i/lQAR/dP8AvH+dY91eXGrXz6dpEwjhhYpfXinmM4/1Uf8At88n+Ee5GHa3dyWllFBYKn2+9m+z225chSclnI7hVDNjvjHer2m6db6Tp0VlZqViiBxk5LEklmJ7kkkk9ySaAJLOzt7C0jtrOFYYYxhUUcDnJP1JJJPcnNTUUUAFFFFABRRRQAyWKOeF4Z41kikUq6OuVYHggg9RWFE03hm5WCd2m0WVsRTO2WsmPRHJ6xnordVPB4wR0FMlijnheGeNZIpFKujrlWB4IIPUUAPpsf3T/vH+dYmg/wCgXE+gXHzmxjja0kflpbcjCknuysrKfYKT96tlI0KnKL1Pb3oAkpq/ef8A3v6Cjy0/uL+VNWNNz/IvX09hQBJRTfLT+4v5UeWn9xfyoAdTV+8/+9/QUeWPVv8Avo01UG5+W6/3j6CgCSo2/wCPpP8Acb+a07yx6t/30ajZB9qTlvuN/EfVaAJqo61qCaVot3fyglbaMyEAZzjnFXPLHq3/AH0axvEqo9vp9ox/4+tRt1AbLA7H80j8RGRQBc0TTjpejwWzsZJsGSeQjmSVjudj9WJPt0q/RRQAUUUUAFFFFABRRRQAUUUUAYenYsNe1LTFUJFIyX8ADZH7xiJAB2/eKWPvJ9QNysHV4/K8WaHdLx5gntGPPzBlWQD/AMg/z9a3PLHq3/fRoAJP9U/+6adUciARty3Q/wARp3lj1b/vo0AOpsf3T/vH+dHlj1b/AL6NNRAVPLdT/EfWgCSmr95/97+go8serf8AfRpqoNz8t1/vH0FAElRt/wAfSf7jfzWneWPVv++jUbIPtSct9xv4j6rQBNTW+8n+9/Q0eWPVv++jTWQbk5br/ePoaAJKbJ/qn/3TR5Y9W/76NVtSuI9P0m7vZdxS2geVgGPIVST/ACoAz7Bf7S8S3uouyvFZZsrUA5APDTN9S2E9vLPrW3WfoFnJYeH7K3nx56xBpiq4Bkb5nOMDqxJ6VoUAFFFFABRRRQAUUUUAFFFFAGHYldN1q+0kBYoJYvtdnGM/d+7KB2AVipwOB5g9cDcrB8TKIJ9J1H/n2vVic7sZWYGLH/fbxnjnjHQmtzyx6t/30aAHU2P7p/3j/Ojyx6t/30aaiAqeW6n+I+tAElNX7z/739BR5Y9W/wC+jTVQbn5br/ePoKAJKjb/AI+k/wBxv5rTvLHq3/fRqNkH2pOW+438R9VoAmprfeT/AHv6Gjyx6t/30aayDcnLdf7x9DQBJWD43/5E2++if+jFrc8serf99GsHxsgHg6++90T+I/8APRaAOgopvlj1b/vo0eWPVv8Avo0AYtgq6h4qvrtssunKLKIEjCu2JJCPqDEP+An1rcrF8JbZPDkVymCLyWa6BAxkSSs4z74YD8K2qACiiigAooooAKKKKACiiigDD8Rg2kmnaxHhWsrhY5WzjMEpCSA+wOx/+2Y69DtR/dP+8f51U1mzOo6Ff2QGTc20kIG4rncpHUdOvWo9DuhqWgWN9v3/AGm3SbcpIDbgDkfnQBo01fvP/vf0FHlj1b/vo01UG5+W6/3j6CgCSim+WPVv++jR5Y9W/wC+jQA6mr95/wDe/oKMP/eX/vn/AOvTVD7n+Zev932HvQBJUbf8fSf7jfzWnYf+8v8A3z/9eo2D/ak+ZfuN/D7r70ATVj62Sup6A3RRqJDfKT1tpwPpyRWth/7y/wDfP/16xfFZFvoq382GTT7mG6bAxhFcbz17IWPPHrQBuUUUUAFFFFABRRRQAUUUUAFFFFAGD4iBbWvDGMZXVGYjPb7JcDP5kfnW9WFfq114y02JShjs7eW4kBIJV2ZUjOOvI83npx+W3h/7y/8AfP8A9egAk/1T/wC6adUcgfy2yy9D/D/9enYf+8v/AHz/APXoAdTY/un/AHj/ADow/wDeX/vn/wCvTUD7Thl6n+H3+tAElNX7z/739BRh/wC8v/fP/wBemqH3P8y9f7vsPegCSo2/4+k/3G/mtOw/95f++f8A69RsH+1J8y/cb+H3X3oAmprfeT/e/oaMP/eX/vn/AOvTWD7k+Zev932PvQBJWP4uQy+DtViyAJbV4zkZ4YbTx9DWth/7y/8AfP8A9esnxVHNJ4R1YQlTKtnK0YxjLBSRyc9wKANiimRSpPCksLB45FDKw7g8g0+gAooooAKKKKACiiigAooooAw/GMhh8KXUqgbo2idc9iJVIP5itysPxfl/D4gUEm4u7aLAXdwZ03cem3J/CtrD/wB5f++f/r0AOpsf3T/vH+dGH/vL/wB8/wD16agfacMvU/w+/wBaAJKav3n/AN7+gow/95f++f8A69NUPuf5l6/3fYe9AElRt/x9J/uN/Nadh/7y/wDfP/16jYP9qT5l+438PuvvQBNTW+8n+9/Q0Yf+8v8A3z/9emsH3J8y9f7vsfegCSuf8dBm8E6gEbYxVAGxnB3rzW9h/wC8v/fP/wBesHxsH/4Q6+yy4wn8P/TRfegB/wDZOv8A/Qy/+SEf+NH9k6//ANDL/wCSEf8AjW3h/wC8v/fP/wBejD/3l/75/wDr0AZPhAY8F6MuAGWyhV8Lt+YIA3H1zWxWF4SIh0u5sM5ewvp4CCMYUuXT/wAhunXr16EVu0AFFFFABRRRQAUUUUAFFFFACMwVSzEBQMkk9KxPBClPAOgqyhGXToAVBzj92OKseJruSy8L6jPbhTOLdlhVjgNIw2oPxYgfjVqwtfsWnwWsJURwII1AXoF4Hf2oAtU1fvP/AL39BRh/7y/98/8A16aofc/zL1/u+w96AJKKbh/7y/8AfP8A9ejD/wB5f++f/r0AOpq/ef8A3v6CjL/3V/76/wDrU1S+5/lXr/e9h7UASVG3/H0n+4381p2X/ur/AN9f/WqNi/2pPlX7jfxe6+1AE1QXlvFeWcttcoJIZl8uRD/Ep4I/Kpcv/dX/AL6/+tTXL7RlV6j+L3+lAGX4Yup5tHFtfSNJfWEjWlyz/eZk6Mf95Cj54yHHA6DYrB1gTaRfJrtvFuhUCLUIY8kvGWXEuAOWjwT7qW6kKK3I5EljWSJldHAZWU5DA9CDQA6iiigAooooAKKKKACkZgqlmICgZJJ6UtYOtyNq9z/wj9rkpIm7UJFyBFCf4M/3n6Y6hdx9MgD9DV7trvWZWz9vkUW4B4FuhIjI/wB7cz/9tMdq26iIKxqqoqqCAAD05+lPy/8AdX/vr/61ABJ/qn/3TTqjkL+W2VXof4v/AK1Oy/8AdX/vr/61ADqbH90/7x/nRl/7q/8AfX/1qahfacKvU/xe/wBKAJKav3n/AN7+goy/91f++v8A61NUvuf5V6/3vYe1AElRt/x9J/uN/Nadl/7q/wDfX/1qjYv9qT5V+438XuvtQBNTW+8n+9/Q0Zf+6v8A31/9amsX3J8q9f73sfagCSmTKGgkVgCCpBBHXily/wDdX/vr/wCtTZC/ltlV6H+L/wCtQBk+FG8rRf7NcgyaVK1iwyfupjyyc85MZjbn+91PU7VYGoMdF8QRasw22d4q2t7tyQjA/upTxgAZZGP+0nZa36ACiiigAooooAKKKKACiiq9/fW+mafPe3sgjggQu7HsB/M+3egDM1MG+8SWFsq5SxR72UnGASrRxjHvukP/AACtusXRbS5W3udS1CLy73UCJZI2bJgQLhIuOPlHXHG4sR1rYy/91f8Avr/61ADqbH90/wC8f50Zf+6v/fX/ANamoX2nCr1P8Xv9KAJKav3n/wB7+goy/wDdX/vr/wCtTVL7n+Vev972HtQBJUbf8fSf7jfzWnZf+6v/AH1/9ao2L/ak+VfuN/F7r7UATU1vvJ/vf0NGX/ur/wB9f/WprF9yfKvX+97H2oAkrB8b/wDIm330T/0YtbmX/ur/AN9f/WrB8bF/+EOvsquMJ3/6aL7UAdBRTcv/AHV/76/+tRl/7q/99f8A1qAMQE6Z4sMrvttdUjEfOcLOhOOeg3KQMdygwBzndrO1PTv7V0ua1LeTI24wzofngk52yLx1B5/+saTRdUfUYZ47uH7Pe2kphuIu2R0dc87GGGB9DjqDQBpUUUUAFFFFABRRRQAUUVT1TUotKsHuZlaQ5CxxRjLyufuoo7kn8up4BNAGfqjHUfEVhpKE+TbgX93tPTa37lT/ALzhm/7Ykd62o/un/eP86zdF0+4s7eSe92Pf3b+bcuG4DY4RePuqOB9M9Sa0EL7ThV6n+L3+lAElNX7z/wC9/QUZf+6v/fX/ANamqX3P8q9f73sPagCSim5f+6v/AH1/9ajL/wB1f++v/rUAOpq/ef8A3v6Cm+enpJ/37b/CmrOm5+JOv/PNvQe1AE1Rt/x9J/uN/NaPPT0k/wC/bf4VGZl+0ocP9xv+Wbeo9qALFNk+6P8AeH86b56ekn/ftv8ACq19qVtZW4luTKqbgMiF25z6AZoAu1hyx3Hh6QzWFvJc6Y7FpbWIZe2PUtGv8Sk9UHI6rnpUn/CVaT/z0uP/AADm/wDiKbJ4p0oxsPMuOh/5c5v/AIigDTsr621G1W5sZ0nhbo6HPPcH0I7g8ip65G9vdIkumvdLvrzTb1vvyRWErJN6eYhTDfXhvRhUH/CcXen/AC32nyaog6z6bbSxsffypRgY9pGPTAPYA7WiudtfHOjXSj5dRhfOCkumXC4P12Y/EEirM3izSIIy7yXRA7JYzufyCE0AbNFcfL8Q7aSbytN0nU5zu2mae0kgiXpydy78c9kPT6ZjbUYdVYnXtTuVtyeLCwtbiOPHo8mwPJ+GxSDgqaANq61mS71B9K0VHa4UHzrxoyYbf1G48O4z9wdP4sd7+m6bBpVktvbl35LySytueVzyXY9yT/gMAAVk22vaFYrBb2SPb28UbKkUNhKioMjgKE4FWf8AhKtJ/wCelx/4Bzf/ABFAGtJ90f7w/nTqzLfXrC+k8q2adn4bBtZVGMjuVAq/56ekn/ftv8KAHSf6p/8AdNOqGSdDG3EnQ/8ALNv8Kd56ekn/AH7b/CgCSmx/dP8AvH+dN89PST/v23+FNSdAp4k6n/lm3r9KAJqav3n/AN7+gpvnp6Sf9+2/wpqzpufiTr/zzb0HtQBNUbf8fSf7jfzWjz09JP8Av23+FRmZftKHD/cb/lm3qPagCxTW+8n+9/Q03z09JP8Av23+FNadNycSdf8Anm3ofagCamyf6p/9003z09JP+/bf4U2SdDG3EnQ/8s2/woAfPBFc28kFwiyRSoUdGGQykYIP4Vi6dI3h/wCz6RqErPbcRWN3IfvDosTn++BgA/xf72c7Pnp6Sf8Aftv8Khuktb61ktryAzwSDDxyQsVYfTFAFqiubQ6poPFmk2r6aC2IHB+0wDPAV24kUDsxDD+83QaWneIdL1Sc29rdoLtRl7SX93PGP9qNsMPrjFAGlRRRQAUUVjz+J9PW4e1sXbUbtCA0FmPMKH/aI4XqM5PAIPegDWkkSKNpJWVEQFmZjgKB1JNYiQt4ju7e8uFZNMtpBLbQuuDcSDlZWB5CqeVHc4Y9BUQ0+bVpI5/ERLRK4eLT4UkWNMcjzDnEzAgdQFGOBkbq3vPT0k/79t/hQA6T/VP/ALpp1QyToY24k6H/AJZt/hTvPT0k/wC/bf4UASU2P7p/3j/Om+enpJ/37b/CmpOgU8SdT/yzb1+lAE1NX7z/AO9/QU3z09JP+/bf4U1Z03PxJ1/55t6D2oAmqNv+PpP9xv5rR56ekn/ftv8ACozMv2lDh/uN/wAs29R7UAWKa33k/wB7+hpvnp6Sf9+2/wAKa06bk4k6/wDPNvQ+1AE1YPjf/kTb76J/6MWtrz09JP8Av23+FYvi8PdeFL2G2hmllYJtRIWJPzqfSgDeoqPz09JP+/bf4UeenpJ/37b/AAoAdH90/wC8f51R1LTXuJEvLGRYNQhGI5CPlde8bjup/MHke9pJ0CniTqf+Wbev0p3np6Sf9+2/woAoaZrcV7KbS6iax1FFzJaTEZ92Q9HX/aH4gHitOs6+srHVIjFfQSOFfcjqro8ZwPmV1wyH3BBqif7d08gWlxFqsCrjy72JoZs+vmopU+mNg92NAG/RWFF4pVcLqOj6vZOeimzafPToYd/HI5OKlTxTpUiBlluAD/es5lP5FKANiisRvFNuy5stO1a8Y9FSwki3cZGGlCLz65xUbz65qQCoq6LAxOX2Ge5x2AG3y0bvn94PbvQBo6pq9tpECvcCaWSTIigt4jJJKQOiqP1JwB1JA5qrYaXPNqA1bWdrXYBFvbg5SzUjkD1c93/AYGcrY6Vp2mebNbwyvdSptlu5w8k0g9C7c4z0X7o7AVp+enpJ/wB+2/woAkpsf3T/ALx/nTfPT0k/79t/hTUnQKeJOp/5Zt6/SgCamr95/wDe/oKb56ekn/ftv8Kas6bn4k6/8829B7UATUVH56ekn/ftv8KPPT0k/wC/bf4UASU1fvP/AL39BTqav3n/AN7+goAdUbf8fSf7jfzWpKjb/j6T/cb+a0ASU2T7o/3h/OnU2T7o/wB4fzoAdTZP9U/+6adTZP8AVP8A7poAdXL+CJ5Z/wDhIfPleTy9cuUTexO1RtwB6D2rqK5mbwpfW+pXtz4f1+fS47+Tzp4DbpOolIwXTd90nAyORx0oA5nSvE17pHhuEq8KJc6vfRy396HeG2VJX2htvqAAMkAAdegrW1DxvPZWGlI02kpdahJNi6a4L2ojjP8ArAV5OdyfLkYLHnitO38MT6ZotnZeHtWlsjaCRd00QnWcs2S0i8Zbdk5BHU1Tt/AS2UNtLY6nJDqVveT3i3XkKULTDEi+XwAh44BzkA5oAzE8f382nAWcVhNff2umnb0ZmglEkZZJFOcgE4B64w3Wu+tvP+yxfbDGbjYPNMQIQtjnbnnGemawpvDU17HZfbdUkuJrTUkvmkeIANtUgIqggKOevP410NAEbf8AH0n+4381qSo2/wCPpP8Acb+a1JQA2T7o/wB4fzp1Nk+6P94fzp1ADZP9U/8AumnU2T/VP/umnUAFNj+6f94/zp1Nj+6f94/zoAdTV+8/+9/QU6mr95/97+goAdUbf8fSf7jfzWpKjb/j6T/cb+a0ASU1vvJ/vf0NOprfeT/e/oaAHVFco0lpMiSNEzIwEiAZU46jIIyPcEVLTZP9U/8AumgDL/se+/6GPU/+/dr/APGaP7Hvv+hj1P8A792v/wAZrWooAx00e+2n/io9T6n/AJZ23r/1xqtqHhJdWgEOqatd3kancqz21o4U+ozDwfcVvx/dP+8f506gDz2bQ30XxbpGm23iDX2XUmuMl71WWPZGG4QoV5z7Yq1qa6haeJbPR01/VWSWxuLoSloQwMZUYOIuc7x16Y9+L3im1vYde0XXLOylv49NmmWeCAjzdksYXcoON2CBkZziqsaXviDxa2s/2ZeWNnZaZNbRC7jCSTyyMpOEyTtAQcnGSfagDP0LwtH4p0HTdU1HWdZlF/arO1rcXKTwrnGBseMqeGIPHP6V1cGgXFtCsVtr2oRRr91I4bVVHfoIaq+BrWex8F6Ba3kLwXEOnqkkUi4ZGAXIIro6AMdtHvtyf8VHqfX/AJ523of+mNO/se+/6GPU/wDv3a//ABmtRvvJ/vf0NOoAyhpV5GQ76/qMqryY3jt9rj0OIgcH2INatNk/1T/7pp1ABTY/un/eP86dTY/un/eP86AHU1fvP/vf0FOpq/ef/e/oKAHVG3/H0n+4381qSo2/4+k/3G/mtAElNb7yf739DTqa33k/3v6GgB1Nk/1T/wC6adTZP9U/+6aAHUUUUANj+6f94/zp1Nj+6f8AeP8AOnUAcTolifFtzq2pateagqR381pb2tvey26QrE2zcRGwy5IJyfUVcvLm+8J6Ta2rapb3IknkH23V5gpij5KrgHdK3QcckZJqZ/DN7b6veXeha3Jp0V3KJbi1Nuk0bSbQC65wVJwM9sjOKhbwS0X9lzafrFzHe6fJNIbm4UTGdpgPMLA4A6cYxjtxwQDGPjzUp9OtZLO3spL46uNKdvn8l96K6yL/ABAfMnXPerF14q8S2kfiDfa6ax8Px+fPIA+25QxCTCDd8rABgSSf4eOtWD4C2X1s0eqzMP7TXVp/OiDGWZQitggjaCFHGDjntgDTvPCwvI/EqNdlV16DyTiP/UfufKz1+b17UAYWreP5F1a4tdMn0q3W0hjk/wCJjKytO7x7wgA+6NrLljnlunFWLHxjqeu6xpltotvaxRXmmR6hILoMWiBcq6ZB5IOAOPU+1X28KT2mpPd6Pqz2L3UMUNyPIWQOY0Kq65+62DjuOBxxVy38PeR4qj1n7ZJLs04WPlyLlm/eb95fPX2x/hQBzs3ju7g1G2jnbS3iuLwWj2ltOZZ4d8nlo7MDt6lcr2z1rvK4xfALR6Ta6fJrM7WenTrc2UKQqu2RHDqXPJcA5GMjIb1AI7GMMsah23sAAWxjJ9cUAOpsf3T/ALx/nTqbH90/7x/nQA6mr95/97+gp1NX7z/739BQA6iiigBvlp/cX8qasabn+Revp7CpKav3n/3v6CgA8tP7i/lUbRp9qT5F+43b3Wpqjb/j6T/cb+a0AO8tP7i/lTXjQKMIvUdvepKbJ90f7w/nQAeWn9xfyqK6eC2s5p5ykccUbO7sMBQBkmp6474tSPH8KddaNmQmFVJU44LqCPxBIoAp2uveMvFES3/hbSdIsNKkObefV3kaS5TnDrHHjaD6Mc9+9WPI+JX/AD08I/8Afi5/+KrsoIIra3jgt0WOKJAiIowFUDAA/Cn0AcSLf4lD/lp4RP8A2wuf/iqZNcfEbTYzdXGmeHdWhj5e2sDLDMw/2S+VJ9v8a7migDK8P6zYeI9Hj1LTgTFKcFJE2vEw4ZHHZgcgj+fWtPy0/uL+Vcd4B/d6v4whTiNdckcL6Fo0LH8TzXZ0AQtGn2pPkX7jdvdak8tP7i/lTW/4+k/3G/mtSUARvGgUYReo7e9O8tP7i/lRJ90f7w/nTqAI5I0EbYReh7U7y0/uL+VEn+qf/dNOoAb5af3F/KmpGhU5Rep7e9ZGo63NZeL9F0lEjMF/DdSSu2dy+UI8Y5xzvOc+lLpnivQ9Uu1tLDUYpppN7RAAgTAHkoxGHwOflJ4oA2PLT+4v5U1Y03P8i9fT2FY6eM/D8lwIY9SRmacW6kI5V5C4TarYwTuIHB4qxq2pHT5rFVnt4jd3yW+J1Y+ZlCSq7ejYXIJ44NAGl5af3F/Ko2jT7UnyL9xu3utY1v448O3dzBBb6mjyTy+TH+7cDzMkbCSMBsg4BwT26ittv+PpP9xv5rQA7y0/uL+VNaNNyfIvX09jUlNb7yf739DQAeWn9xfypskaCNsIvQ9qkpsn+qf/AHTQAeWn9xfyo8tP7i/lTqKAI0jQqcovU9veneWn9xfyoj+6f94/zriJdX8SeLPEV9p/he6h0fSdNn+z3OpvAJpZpl+/HGjfKAOhYg89KAO1WNNz/IvX09hTvLT+4v5Vxw8GeIxnHj7U+f8Ap0g/+Jo/4Q3xJ/0P+p/+AkH/AMTQB1rRp9qT5F+43b3WpPLT+4v5VxjeDPEwIeL4gaiJF+6XsoGHUdsc9Ks+G9f1SLxBN4X8UiOTUooPtNvewRlIryHIBOP4XBIBA+o4oA6ho03J8i9fT2NO8tP7i/lQ33k/3v6GnUARyRoI2wi9D2p3lp/cX8qJP9U/+6adQA3y0/uL+VNSNCpyi9T296kpsf3T/vH+dAB5af3F/KmrGm5/kXr6ewqSmr95/wDe/oKADy0/uL+VRtGn2pPkX7jdvdamqNv+PpP9xv5rQA7y0/uL+VNaNNyfIvX09jUlNb7yf739DQAeWn9xfypskaCNsIvQ9qkpsn+qf/dNAB5af3F/Kjy0/uL+VOooAjSNCpyi9T296d5af3F/KiP7p/3j/OnUARrGm5/kXr6ewp3lp/cX8qF+8/8Avf0FOoAhaNPtSfIv3G7e61J5af3F/Kmt/wAfSf7jfzWpKAI2jTcnyL19PY07y0/uL+VDfeT/AHv6GnUARyRoI2wi9D2p3lp/cX8qJP8AVP8A7pp1ADfLT+4v5U1I0KnKL1Pb3qSmx/dP+8f50AHlp/cX8qasabn+Revp7CpKav3n/wB7+goAPLT+4v5UeWn9xfyp1FADfLHq3/fRpqoNz8t1/vH0FSU1fvP/AL39BQAeWPVv++jUbIPtSct9xv4j6rU1Rt/x9J/uN/NaAHeWPVv++jTXQBRy3UfxH1qSmyfdH+8P50AHlj1b/vo1xnxcQD4U64fm/wBUn8R/56LXa1xnxd/5JRrn/XJP/Ri0AdnRRRQAUUUUAcX4FUNr/jLOf+QyehI/5ZJXZeWPVv8Avo1x3gT/AJD3jL/sNH/0UldnQBCyD7UnLfcb+I+q1J5Y9W/76NNb/j6T/cb+a1JQBG6AKOW6j+I+tO8serf99GiT7o/3h/OnUARyIBG3LdD/ABGneWPVv++jRJ/qn/3TTqAOK8ZaLeap4k0pbOGRkOm6lA03OyN5I4wm49skH8qo2dte6pbeEtPXRbuyl0ieOW7knXZHCI4mQqjZw+SQBtzxya9Dpsf3T/vH+dAHkKW11Y+DfCGiXunXEV1puv2qTSSKfLJWcjdGwOGJBzx0G7OK7fxbYXF3e+HGtYJZlt9bilmKAny08mQFj6DLAZ96v2/g/QbXVV1GDT1S4SRpU+dyiO33nWPOxWOTyADya2F+8/8Avf0FAHmdvoN9H8L7C2XT7hbwa2tw8Wxt4X7cW3kdR8mDn0r0hkH2pOW+438R9Vqao2/4+k/3G/mtADvLHq3/AH0aayDcnLdf7x9DUlNb7yf739DQAeWPVv8Avo02RAI25bof4jUlNk/1T/7poAPLHq3/AH0aPLHq3/fRp1edeLPjDp/g7xg+i6pplxJEsSSC5gkDH5uxQ46Dvk/SgD0FEBU8t1P8R9a5H4Wnf4NkkbG+TUbxnOPvHz35q1oPxE8Ka+ijT9btfMZiBDM/lSE5x91sE5yKqfCv/kST/wBf93/6PegDs6KKKACuL1lFPxi8NHGCdPvASOCfuf412lcZrH/JYfDX/Xhef+06AOvZBuTluv8AePoad5Y9W/76NDfeT/e/oadQBHIgEbct0P8AEad5Y9W/76NEn+qf/dNOoAb5Y9W/76NNRAVPLdT/ABH1qSmx/dP+8f50AHlj1b/vo01UG5+W6/3j6CpKav3n/wB7+goAPLHq3/fRqNkH2pOW+438R9Vqao2/4+k/3G/mtADvLHq3/fRprINyct1/vH0NSU1vvJ/vf0NAB5Y9W/76NNkQCNuW6H+I1JTZP9U/+6aADyx6t/30aPLHq3/fRp1FAEaICp5bqf4j607yx6t/30aI/un/AHj/ADp1AHBahc674r8V3+ieH9ROk6XphVL2/jG6aSYruEceeABxuPXnFWv+FdSf9Dt4t/8ABgn/AMbpPh2o+0+L2wNx8R3IJx1+SP8AxrtKAOL/AOFcvuz/AMJt4tyOM/2gn/xuhvh1NtO3xv4sDY4Jv0OP/IddpRQBxmmXuq+H/FVr4d8QXrapDqIkk06/KhJMou54pAMDIBBDADIBrsfLHq3/AH0a47xl/wAjt4J/6/5v/RDV2dAEciARty3Q/wARp3lj1b/vo0Sf6p/9006gBvlj1b/vo01EBU8t1P8AEfWpKbH90/7x/nQAeWPVv++jTVQbn5br/ePoKkpq/ef/AHv6CgA8serf99Gjyx6t/wB9GnUUANw/95f++f8A69NUPuf5l6/3fYe9SU1fvP8A739BQAYf+8v/AHz/APXqNg/2pPmX7jfw+6+9TVG3/H0n+4381oAdh/7y/wDfP/16a4faMsvUfw+/1qSmyfdH+8P50AGH/vL/AN8//XrjPi4H/wCFU65krjyk7f8ATRfeu1rjPi7/AMko1z/rkn/oxaAOzooooAKKKKAPPvCejadqfiPxhJqGn2d066wyq1xbrIQPKTgE12tjpdnpiuum2dpaK5BcW8Aj3fXHWuY8Cf8AIe8Zf9ho/wDopK7OgDOv9KstTuIRqVlaXnlo+z7RAsm3JXOM5x0H5VB/wimg/wDQD0r/AMAY/wDCtRv+PpP9xv5rUlAGda6Np+ms0mnafZWjthWa3tljJGRwSO1WLywt9Qg8m/t7e6izu8ueEOufXBqeT7o/3h/OnUAYr+FNBEbf8SPSuh6WMf8AhVi18PaTY3K3Flpen286Z2yxWiIy5GDgjkcEitCT/VP/ALpp1AEFxax3lu8F3HDPC4w8cse5W+oPBrMTwpoJX/kB6V1P/LjH6/Stqmx/dP8AvH+dAGXH4X0SKRZItG0xHQhlZbJAVI6EHFaO0v5ittIJwQVyDwPepaav3n/3v6CgDJ/4RTQf+gHpX/gDH/hUZ8K6D9oQf2Hpf3G/5co/Ue1blRt/x9J/uN/NaAFVGVQqlAoGAAvT9ay5/DWiz3Bln0fTZJZHLO72aEsxySSSOTWvTW+8n+9/Q0AZP/CKaD/0A9K/8AY/8K0IrWOzsxBaxwwQopCxxR7VUewHAqxTZP8AVP8A7poAoXegaXf3BnvtMsLmZgAZJrVXY46cnmvN/FHwQi8TeL31Bb230vTvJVFt7S2AYkDrjgDkn16e/HrNFAHCeHvhB4Q0HbImmpfzqTia/wD3x9Pu8J/47U/wpUJ4H2qAAL+7AAGAP3712Uf3T/vH+dcd8K/+RJP/AF/3f/o96AOzooooAK4vWs/8Lg8NYIB+wXnUf9c67SuM1j/ksPhr/rwvP/adAHXsH3J8y9f7vsfenYf+8v8A3z/9ehvvJ/vf0NOoAjkD+W2WXof4f/r07D/3l/75/wDr0Sf6p/8AdNOoAbh/7y/98/8A16agfacMvU/w+/1qSmx/dP8AvH+dABh/7y/98/8A16aofc/zL1/u+w96kpq/ef8A3v6CgAw/95f++f8A69RsH+1J8y/cb+H3X3qao2/4+k/3G/mtADsP/eX/AL5/+vTWD7k+Zev932PvUlNb7yf739DQAYf+8v8A3z/9emyB/LbLL0P8P/16kpsn+qf/AHTQAYf+8v8A3z/9ejD/AN5f++f/AK9OooAjQPtOGXqf4ff607D/AN5f++f/AK9Ef3T/ALx/nTqAOM+HX+u8XZ6/8JJc/wDoEVdnXGfDv/X+Lv8AsZLn/wBAirs6ACiiigDjPGef+E18E46/b5v/AEQ1djh/7y/98/8A1647xl/yO3gn/r/m/wDRDV2dAEcgfy2yy9D/AA//AF6dh/7y/wDfP/16JP8AVP8A7pp1ADcP/eX/AL5/+vTUD7Thl6n+H3+tSU2P7p/3j/OgAw/95f8Avn/69NUPuf5l6/3fYe9SU1fvP/vf0FABh/7y/wDfP/16MP8A3l/75/8Ar06igBuX/ur/AN9f/Wpql9z/ACr1/vew9qkpq/ef/e/oKADL/wB1f++v/rVGxf7Unyr9xv4vdfapqjb/AI+k/wBxv5rQA7L/AN1f++v/AK1NcvtGVXqP4vf6VJTZPuj/AHh/OgAy/wDdX/vr/wCtXGfFwv8A8Kp1zIXHlJ3/AOmi+1drXGfF3/klGuf9ck/9GLQB2dFFFABRRRQBxfgUt/b/AIy2gH/icnqcf8skrS1/x34d8MhhrOrWkEqjJgWQvL/3woLfpXGWHhL/AISrVPGUP9s6ppn/ABOCP9CuNit+7T7y9+/p+grhNf8A2ffEGnq8uh3dvqsagnyz+5lPPAAOQePcUAe/aVqkWtWNlqVkD9nuoDLFv4JU7SMjtWhl/wC6v/fX/wBauI8JeELi18L6Pb3uo6vZ3MdmFlgS6wI2G0FRweM/hW5/wi//AFHNa/8AAv8A+tQBsuX2jKr1H8Xv9Kdl/wC6v/fX/wBasJ/C/wAo/wCJ5rPUf8vfv9Kd/wAIv/1HNa/8C/8A61AGzIX8tsqvQ/xf/Wp2X/ur/wB9f/WrCk8L/u2/4nms9D/y9/8A1qd/wi//AFHNa/8AAv8A+tQBt5f+6v8A31/9amoX2nCr1P8AF7/Ssb/hF/8AqOa1/wCBf/1qanhf5T/xPNZ6n/l79/pQBu5f+6v/AH1/9amqX3P8q9f73sPasb/hF/8AqOa1/wCBf/1qavhf5n/4nms9f+fv2HtQBu5f+6v/AH1/9ao2L/ak+VfuN/F7r7Vkf8Iv/wBRzWv/AAL/APrVG3hj/SUH9uaz9xv+Xv3HtQBv5f8Aur/31/8AWprF9yfKvX+97H2rG/4Rf/qOa1/4F/8A1qa3hf5k/wCJ5rPX/n79j7UAbuX/ALq/99f/AFqbIX8tsqvQ/wAX/wBasb/hF/8AqOa1/wCBf/1qbJ4X/dt/xPNZ6H/l7/8ArUAbuX/ur/31/wDWoy/91f8Avr/61Yn/AAi//Uc1r/wL/wDrUf8ACL/9RzWv/Av/AOtQBsoX2nCr1P8AF7/SuQ+FX/Ikn/r/ALv/ANHvWonhf5T/AMTzWep/5e/f6Vk/CddngUJuZtt9djcxyT+/fk0AdrRRRQAVxetZ/wCFweGsAE/YLzqf+uddpXGax/yWHw1/14Xn/tOgDr2L7k+Vev8Ae9j7U7L/AN1f++v/AK1DfeT/AHv6GnUARyF/LbKr0P8AF/8AWp2X/ur/AN9f/Wok/wBU/wDumnUANy/91f8Avr/61NQvtOFXqf4vf6VJTY/un/eP86ADL/3V/wC+v/rU1S+5/lXr/e9h7VJTV+8/+9/QUAGX/ur/AN9f/WqNi/2pPlX7jfxe6+1TVG3/AB9J/uN/NaAHZf8Aur/31/8AWprF9yfKvX+97H2qSmt95P8Ae/oaADL/AN1f++v/AK1NkL+W2VXof4v/AK1SU2T/AFT/AO6aADL/AN1f++v/AK1GX/ur/wB9f/Wp1FAEaF9pwq9T/F7/AEp2X/ur/wB9f/Woj+6f94/zp1AHGfDr/XeLs9f+Ekuf/QIq7OuM+Hf+v8Xf9jJc/wDoEVdnQAUUUUAcZ4zz/wAJr4Jx1+3zf+iGrscv/dX/AL6/+tXHeMv+R28E/wDX/N/6IauzoAjkL+W2VXof4v8A61Oy/wDdX/vr/wCtRJ/qn/3TTqAG5f8Aur/31/8AWpqF9pwq9T/F7/SpKbH90/7x/nQAZf8Aur/31/8AWpql9z/KvX+97D2qSmr95/8Ae/oKADL/AN1f++v/AK1GX/ur/wB9f/Wp1FAEfnp6Sf8Aftv8Kas6bn4k6/8APNvQe1TU1fvP/vf0FADfPT0k/wC/bf4VGZl+0ocP9xv+Wbeo9qsVG3/H0n+4381oAPPT0k/79t/hTXnQqOJOo/5Zt6/SpqbJ90f7w/nQA3z09JP+/bf4VxvxbmVvhTrgAfPlJ1Rh/wAtF9q7auM+Lv8AySjXP+uSf+jFoA7OiiigAooooA4rwPIqeIPGQIY/8Tk9EJ/5ZJ6V2Pnp6Sf9+2/wrkPAn/Ie8Zf9ho/+ikrs6AK5mX7Shw/3G/5Zt6j2qTz09JP+/bf4UN/x9J/uN/NakoAhedCo4k6j/lm3r9Kd56ekn/ftv8KdJ90f7w/nVG31q1uNbv8AS8SR3FhHFLIZAArJIGwynPIyrA9MEUAWpJ0MbcSdD/yzb/CneenpJ/37b/CuTj8bWE1xJeyXF1b2X9jLf/Z5rZR8jSMquCCWLNtwF9CO5xVuTxzYW1tPLfWOo2bQ2xuvKuIAjyQhgrOvOPl3AkEggEcUAdD56ekn/ftv8Kak6BTxJ1P/ACzb1+lZjeKdNTxU+gM0guks/tjSbf3QXONu7P3sc4x0qTTNes7/AMMR66d9tYyQtc7rgBSsfJ3HBOBjn6UAaPnp6Sf9+2/wpqzpufiTr/zzb0HtWLaeM9OuJNs0N7ZBrZrqJrq2ZBNGoySvU5AIO0gHnpTNO8Z2F9fi1NpfWrz27XdubmDYJ41C5K89RuHBweaAN/z09JP+/bf4VGZl+0ocP9xv+Wbeo9q5uL4i6XNbWVwllqXlago+xt9mz9oYgHYoBzkZOScDg88VO/jTTVtYrtoroStcPYiyEW6czgjKbQSM4G7OcY5zQB0Pnp6Sf9+2/wAKa06bk4k6/wDPNvQ+1YMvjrSrfT7m6u47u2NpcxW1zBLDiSFpCApIzyp3A5BPFLc+MIIfIT+ytVe6eN5zaJbZkjjViuW52jPUDOSO1AG/56ekn/ftv8KbJOhjbiTof+Wbf4VHpmpWusaXbajp8nm211GJInxjKkelWJP9U/8AumgBvnp6Sf8Aftv8KPPT0k/79t/hUlFAEKToFPEnU/8ALNvX6VyXwqOfBB/6/wC7/wDR712Mf3T/ALx/nXHfCv8A5Ek/9f8Ad/8Ao96AOzooooAK4vW2CfGDw0Tn/jwvOgJ/55+ldpXGax/yWHw1/wBeF5/7ToA61p03JxJ1/wCebeh9qd56ekn/AH7b/CnN95P97+hp1AEMk6GNuJOh/wCWbf4U7z09JP8Av23+FOk/1T/7pp1AEfnp6Sf9+2/wpqToFPEnU/8ALNvX6VNTY/un/eP86AG+enpJ/wB+2/wpqzpufiTr/wA829B7VNTV+8/+9/QUAN89PST/AL9t/hUZmX7Shw/3G/5Zt6j2qxUbf8fSf7jfzWgA89PST/v23+FNadNycSdf+ebeh9qmprfeT/e/oaAG+enpJ/37b/CmyToY24k6H/lm3+FTU2T/AFT/AO6aAG+enpJ/37b/AAo89PST/v23+FSUUAQpOgU8SdT/AMs29fpTvPT0k/79t/hTo/un/eP86dQBxfw6O6bxcRnnxHc9Rj+CKu0rjPh3/r/F3/YyXP8A6BFXZ0AFFFFAHF+M2C+NPBROcfb5ugz/AMsGrsPPT0k/79t/hXIeMv8AkdvBP/X/ADf+iGrs6AIZJ0MbcSdD/wAs2/wp3np6Sf8Aftv8KdJ/qn/3TTqAI/PT0k/79t/hTUnQKeJOp/5Zt6/SpqbH90/7x/nQA3z09JP+/bf4U1Z03PxJ1/55t6D2qamr95/97+goAb56ekn/AH7b/Cjz09JP+/bf4VJRQA3zE/vr+dNWRNz/ADL19fYVJTV+8/8Avf0FAB5if31/Oo2kT7UnzL9xu/utTVG3/H0n+4381oAd5if31/OmvIhUYZeo7+9SU2T7o/3h/OgA8xP76/nXGfFx1Pwp1wBlJ8pO/wD00Wu1rjPi7/ySjXP+uSf+jFoA7OiiigAooooA4vwKyrr/AIy3MB/xOT1P/TJK7LzE/vr+dcL4N1Kxs/EXjGO7vLeBzrBYLLKqkjyk5wT7V2ttfWl7u+x3UNxsxu8qQNtz0zj6UAK0ifak+ZfuN391qTzE/vr+dVru8trO4ia8uIYFZWAMrhQTlfWmf25pP/QUsv8AwIT/ABoAtPIhUYZeo7+9cf410LUtR1G1utBaMNdQSaZqDeaFKW0hBMgz1ZMNgDn5ziupi1KxvG8u0vLedxhisUqsQMjnAPvU9xcwWsXm3U0cMecb5HCj8zQBwXinwhd6vqmpjT/KgtpNFt7a2cybQJYbhpQhA+YDG0Zx3q5p/hmC7uZXvtH+wKbWW33z6k9058wYYKCxULgd+TgccV0smuaT5bf8TSy6H/l4T/GpYNV065mWK2v7WWRvupHMrMe/QGgDzmHwnr8nhTzbhUTXpZWikbzUOIvsptgc5xjgSYzn8eK7bVtFg1HwZe6DbukMc1o9rESeEypVfwHFbEsscETSzyLHGoyzu2APqTVJNc0naf8AiaWXU/8ALwnr9aAMC4k8XajodzawQ2WkTiweNJBOJGa4wApQjAVPvckZ6cCsaHwzqMfiLTtUt9OaOOC3ntpludSM8zmRUG8szEYG09Dk857V3ces6ZLIscWo2ju5CqqzqSxPQAZq0GC+YzEBQckk9OBQBxej+H7600nwNBcRRq+jkm8HmKdn+jSR8c8/Mw6Vl33g++n1GW9ECyNHrk98tuLvyjcQvCkRw6HKt3GcdCD1rvf7c0n/AKCll/4EJ/jUTa5pP2pP+JpZ/cb/AJeE9V96AOPu/C1zPpNwbPS47SefUbKXy5L5p5GihkViXZ2IyMvgKfStDXtK1K+8USSvE1/p720cdtEL9oIoJMtvaRVYFwQU5wTxgda7Os+TWtKWRVbUrMFWIIM68cH3oAzPAmn3Wh+DLDStTSOOeyTyiVkDCQDncMdOvQ+lb8kiGNsMvQ96q/25pP8A0FLL/wACE/xqyJY57UywSLJGykq6NkH6EUAP8xP76/nR5if31/Oqsur6bBK0U+oWscinDI86gj6gmvOPEfxts/DHjSfSbvTje2CKjLd2cwZuVBI2nhucj7woA9PSRApyy9T3965D4Vf8iSf+v+7/APR71N4d+JnhLxEqpY6xDFcMeLe6PkyZJ4UBsBj/ALpNQ/Cv/kST/wBf93/6PegDs6KKKACuL1ohfjB4aJIA+wXnX/tnXaVxmsf8lh8Nf9eF5/7ToA69pE3J8y9fX2NO8xP76/nVPVNX07R4Vn1W+trKLJO+4lVAePc+4/MVn+HPGmh+Lbm+h0C7N39hKCaQRsq5bdjBIGfuHkcUAbUkiGNsMvQ96d5if31/OiT/AFT/AO6adQA3zE/vr+dNSRApyy9T396kpsf3T/vH+dAB5if31/OmrIm5/mXr6+wqSmr95/8Ae/oKADzE/vr+dRtIn2pPmX7jd/damqNv+PpP9xv5rQA7zE/vr+dNaRNyfMvX19jUlNb7yf739DQAeYn99fzpskiGNsMvQ96kpsn+qf8A3TQAeYn99fzo8xP76/nTqKAI0kQKcsvU9/eneYn99fzoj+6f94/zp1AHGfDo5m8XEcj/AISS5/8AQIq7OuM+Hf8Ar/F3/YyXP/oEVdnQAUUUUAcZ4zIHjXwSScD7fN/6Iaux8xP76/nXHeMv+R28E/8AX/N/6IauzoAjkkQxthl6HvTvMT++v50Sf6p/9006gBvmJ/fX86akiBTll6nv71JTY/un/eP86ADzE/vr+dNWRNz/ADL19fYVJTV+8/8Avf0FAB5if31/OjzE/vr+dOooAKav3n/3v6Cjyx6t/wB9Gmqg3Py3X+8fQUASVG3/AB9J/uN/Nad5Y9W/76NRsg+1Jy33G/iPqtAE1Nk+6P8AeH86PLHq3/fRproAo5bqP4j60ASVxnxd/wCSUa5/1yT/ANGLXY+WPVv++jXGfFxAPhTrh+b/AFSfxH/notAHa0UUUAFFFFAHCeDdPs7zxB4xa8tIJ2XWWCmWINj90nqK7S2sbSy3fY7WG3343eVGF3Y6Zx9a5LwKobX/ABlnP/IZPQkf8skrsvLHq3/fRoArXdnbXlxEt5bwzqqsQJUDAHK+tM/sPSf+gXZf+A6f4VYZB9qTlvuN/EfVak8serf99GgCtFptjZt5lpZ28DnCloolUkZHGQPap7i2guovKuoY5o852SIGH5Gh0AUct1H8R9ad5Y9W/wC+jQBRk0PSfLb/AIldl0P/AC7p/hUkWkabBKssGn2scinKukCgj6ECrEiARty3Q/xGneWPVv8Avo0AJLFHPE0U8ayRsMMjrkH6g1STQ9J2n/iV2XU/8u6ev0q95Y9W/wC+jTUQFTy3U/xH1oAqroulKwZdMswwOQRbrx+lXF+8/wDvf0FHlj1b/vo01UG5+W6/3j6CgCr/AGHpP/QLsv8AwHT/AAqJtD0n7Un/ABK7P7jf8u6eq+1aPlj1b/vo1GyD7UnLfcb+I+q0ASqoVQqgBQMAAdKozaPpkswkk060d3clmaBSWJByScVd8serf99Gmsg3Jy3X+8fQ0AVf7D0n/oF2X/gOn+FWRFHBamKCNY41UhURcAfQCn+WPVv++jTZEAjbluh/iNAEE+ladczNLc2FrLI33nkhVmPbqRXm3iP4IWPibxpc6tcah9isZUjC2tnAqtlQAx3HgdPQ9fbn1Lyx6t/30aPLHq3/AH0aAOU8PfDPwl4eUPY6PDJMpb9/cjzn5OOrZA444A7+pzD8K/8AkST/ANf93/6PeuvRAVPLdT/EfWuQ+FX/ACJJ/wCv+7/9HvQB2dFFFABXC+JrX7b8VPD1v581v5mnXgEsD7XTmPkGu6ri9aGfjB4azn/jwvOhx/zzoA4HxV8Ar++u2u9K8SS3sjk4TVSWk6E/60Zzk/7I61a+Enw71zQrrW4NfN9pZYW5ie0uAFm/1mfmGQcccds+9eyMg3Jy3X+8fQ07yx6t/wB9GgDCk8L/ALtv+J5rPQ/8vf8A9anf8Iv/ANRzWv8AwL/+tWzIgEbct0P8RrL8UaTNrHhe/wBPs7xrOe4iKJNvYAH0ODnB6HHOCaAKsWhW87ukHiTVZWQkMqXwJUjjnA4p6eF/lP8AxPNZ6n/l79/pXM2llp2ieINHOq+EYtDunmFtbahpcytC7lT+7fAVtrYOAykZ755qtY+L9cvbUaxaR31zG14wXTodNkaIwCQof3wHMgA3ZzjIK4oA7H/hF/8AqOa1/wCBf/1qjPhtIllkl17WEROWZrzAAA5JOK5vUtW8QxaX4n1i31fZDot3KIrUwKRKqKrFS3XBzjPXrz0qW+1HVNaPihrW++yWOlwhFtjGCZyYBI29zyAQwUEdMZ5oA3v7Ct/sf2v/AISTVfs3l+b5/wBuGzZjO7djGMc5pF8NpLLE8Wvaw6PGWV1vMgj5cEHHSsyznex+BMF5BjzYPDaypvG5dy22RkHgjI6VmWuq67c6xqUFrqCW9rpuhwXMcYgU5leJiB7Llc49gBgUAdZ/wi//AFHNa/8AAv8A+tTW8L/Mn/E81nr/AM/fsfasLTtd1eC+0GfVb2OWDW7Ge5eDaES0KosigOOSACVJOexqtpvibVP7d0Lz76a+tdUlaJv9Ae3hH7t3V4nYBmHyjrnIOaAOo/4Rf/qOa1/4F/8A1qbJ4X/dt/xPNZ6H/l7/APrVyP8AwkniCXwjpviSPUECanqEUAtPKGIYnuAo2nqW2jBzn7x6YouvFHiC6bWLnTXumaxvZre2sINNkmimET7SHlwcM209CAuRmgDsP+EX/wCo5rX/AIF//Wo/4Rf/AKjmtf8AgX/9atmMCSNXw67gDtZiCPY07yx6t/30aAMJPC/yn/ieaz1P/L37/Snf8Iv/ANRzWv8AwL/+tWyiAqeW6n+I+tO8serf99GgDivhlCbdfFUJlkm8vxFcr5kpyzYSLknua7euM+HQxN4u/wCxkuf/AECKuzoAKKKKAOM8Zf8AI7eCf+v+b/0Q1dnXGeMxnxr4JH/T/N/6Iaux8serf99GgAk/1T/7pp1RyIBG3LdD/Ead5Y9W/wC+jQA6mx/dP+8f50eWPVv++jTUQFTy3U/xH1oAkpq/ef8A3v6Cjyx6t/30aaqDc/Ldf7x9BQBJRTfLHq3/AH0aPLHq3/fRoAdTV+8/+9/QUYf+8v8A3z/9emqH3P8AMvX+77D3oAkqNv8Aj6T/AHG/mtOw/wDeX/vn/wCvUbB/tSfMv3G/h9196AJqbJ90f7w/nRh/7y/98/8A16a4faMsvUfw+/1oAkrjPi7/AMko1z/rkn/oxa7HD/3l/wC+f/r1xnxcD/8ACqdcyVx5Sdv+mi+9AHa0UUUAFFFFAHGeBP8AkPeMv+w0f/RSV2deZaT4q0nwpqHjO71q7+zxf2y2AImcsfKTAGO59/f0Nc3r/wC0VHGzxeGtJ87BIE96dqnjg7FOevuOB78AHtrf8fSf7jfzWpK4Dwd8QrXVPC+mXuuXscd/LC/nKts4AO/A6D0ANdtZXkeo2aXVnMskMmdrbCM4ODweeooAnk+6P94fzp1Y2o+JNM026a2vrwRTKVJXyHPXBHIGDUP/AAmeh/8AQRX/AMB5P8KAN2T/AFT/AO6adVCy1O21azknsJ1miUlCfLZecZxz9RTNS12x0iRE1C6WFpBlR5TNkfhmgDSpsf3T/vH+dYX/AAmeh/8AQRX/AMB5P8KuaVrdjq/mLp10spjOWHlspGSfXFAGnTV+8/8Avf0FUtS1a10iNH1C5WFZDhT5TNk/hms1fGeh7m/4mK9f+feT0+lAHQ1G3/H0n+4381rO0/xFpuqXJt7G9SWXaW2mJ14H1xU2o6hBpmy4vpliiCkbvLJ5JHYZNAF+mt95P97+hrC/4TPQ/wDoIr/4Dyf4VLa+KNJv7yG2tb5XmkYhFMLrk4PcjFAG1TZP9U/+6aiuZxaW0lxO4WKNSzsEJwB1OBzWK/jPQ/Lb/iYr0P8Ay7yf4UAdDRWFH4w0WWRUTUFLMQAPs8nJP4VtMXVSxYYAzwhP6ZoAWP7p/wB4/wA6474V/wDIkn/r/u//AEe9aSeM9D2/8hFep/5d5PX6Vl/Cd1k8Ch0OVa+uiDjqDO9AHa0UUUAFcZrH/JYfDX/Xhef+067OuL1rP/C4PDWCAfsF51H/AFzoA7JvvJ/vf0NOqNg+5PmXr/d9j707D/3l/wC+f/r0AEn+qf8A3TVXVdKs9a02Ww1KLzbeXG5dxUgggggjkEEAgjkEVYkD+W2WXof4f/r07D/3l/75/wDr0AYMPg+0F9b3N9f6jqX2WQS28V5cb0icZwwAAywBOC2TRbeEbG3ndoLi8jtXuGuDYrPiAOX3EhcZwW5xnGe1b2H/ALy/98//AF6agfacMvU/w+/1oAyZvCtjPpGsadJJOYNYlkkuDuG5S6hSFOOBhR1zVW78FWF7c3cgur63F3GkV1FBPhLgIoUb1II+7wcYyODkV0WH/vL/AN8//Xpqh9z/ADL1/u+w96AM/wD4R+z/AOER/wCEczL9h+w/YM7hv8vy9nXHXHfFVLfwrY2l7ePFJOWv7FLSUsw4SNdq444OHOa3cP8A3l/75/8Ar1Gwf7UnzL9xv4fdfegDLbwpp8kelxymaRNMtXtIlZhh0dAjb+OThe2OpqiPAunpHp6fbdRZtPcGzka4y0ACMu1eMYwccgk4HPFdNh/7y/8AfP8A9emsH3J8y9f7vsfegDzweEtRkvrbTk0ue20+31UXyyPfpJbxos3m4jQAPubphhhdzYPr0s/g3TzPdyw3F9bw3cxubi1guCkUsvBLEdRnaMgEA10GH/vL/wB8/wD16bIH8tssvQ/w/wD16AJOnSim4f8AvL/3z/8AXow/95f++f8A69ABH90/7x/nTqjQPtOGXqf4ff607D/3l/75/wDr0Acd8O/9f4u/7GS5/wDQIq7OuM+HX+u8XZ6/8JJc/wDoEVdnQAUUUUAcZ4y/5HbwT/1/zf8Aohq7OuM8Z5/4TXwTjr9vm/8ARDV2OH/vL/3z/wDXoAJP9U/+6adUcgfy2yy9D/D/APXp2H/vL/3z/wDXoAdTY/un/eP86MP/AHl/75/+vTUD7Thl6n+H3+tAElNX7z/739BRh/7y/wDfP/16aofc/wAy9f7vsPegCSim4f8AvL/3z/8AXow/95f++f8A69ADqav3n/3v6CjL/wB1f++v/rU1S+5/lXr/AHvYe1AElRt/x9J/uN/Nadl/7q/99f8A1qjYv9qT5V+438XuvtQBNTZPuj/eH86Mv/dX/vr/AOtTXL7RlV6j+L3+lAElcZ8Xf+SUa5/1yT/0Ytdjl/7q/wDfX/1q4z4uF/8AhVOuZC48pO//AE0X2oA7WiiigAooooA4vwMobXPGasAVOssCCOv7pKbr/wAIvBviAM0mlLYzsMedYHySPfaPkJ9ypp3gUt/b/jLaAf8Aicnqcf8ALJK7LL/3V/76/wDrUAY/hnQIvC+i2GjW0zzxWscipJIAGIL7ucfWtqoWL/ak+VfuN/F7r7VJl/7q/wDfX/1qACT7o/3h/OoJtSsba6S2uL23ink27IpJVVm3HC4BOTkggepqVy+0ZVeo/i9/pXINZpc/GWWW5t0k8nRIHi38hXE8vzDj7wz17Z96AOnbU7B7l7JL22a6CnMAlUyDj+7nNU9O8V6Lqjzra6hbkw3At/mlUb2ONu3nkEnAPcg15l4b097nR9Msb66hs9Vt70TS2yaW32pJVlJZmk3fdYZyx4KsRVvzYbGPVfMg2SWHitLucLGd0duZEw/T7vOeO3NAHqM+pWNs0i3N7bwtEFaQSSquwMcKTk8ZPA9TVdNe0gRM51WyCgM5Y3CYChtpPXpk4z68V5d4uv49Un8X3VmS1u2nWCRzDID4uWyVJHOCcfhXSnQrBfinptsmnW4tbXRZ2jiEY2K3nRqOMYzgmgDuYJ4bqBJ7aVJopBuSSNgysPUEdazbXXrX/STqE9nZ7LqWGPN2jeYEAye2Djkr1XvWT8OhJH4VliCBUi1G8WNScbV+0PgDjpzXG6fYpe+J9Lgu7dZYv+Eq1aRkcZHCuykjHTIU/lQB6kdX01Z4oTqFqJZjiKMzrukOSMKM88gjjuDTbnUrG11KCC5vbeGaRWCRySqrMSVwACcmvN9T0+JPCvjC6hgjW6Gur5c3VoyJYWG044G5ifqx9aqeLmkvh4rSO2t7e+USqlulk8txcBI1Ky+YThR1xgDG3HU4oA9Zn1CztriK3ubuCGaY4ijkkCs59geT+FQz6vpsNtBdTahax28p/dzPMoR+Oxzg157HeWM2t+JJdUjFy+oWFt9gYoSZVWNlKodvDCUMT0wSD2zWPpUEtq3he6vZLa0tW8NW6W91eWZuIlk3Eug5AVirIfUheKAPZo5EljWSJldHAZWU5DA9CDRJ/qn/AN01geCbI6f4TtYYnaSEs8kXmQmAojOWChDkqozgAnpit2Qv5bZVeh/i/wDrUASUU3L/AN1f++v/AK1GX/ur/wB9f/WoAI/un/eP86474V/8iSf+v+7/APR7116F9pwq9T/F7/SuQ+FX/Ikn/r/u/wD0e9AHZ0UUUAFcZrH/ACWHw1/14Xn/ALTrs64TxNNcQfFTw9LZWv2uddOvCkHmBN/MfG48D8aAO5b7yf739DTq8D8dfEz4k6dK0UmhN4ehBIEqxefnvxKQUOF9B6n0xN8E/EviTUbnxBcTJca5KxtyzXF7t8r/AFvA3Z4PoMYxQB7pJ/qn/wB006uffVvEPltnw0AMH/mIR/4U7+1vEP8A0LI/8GEf+FAG9TY/un/eP86w/wC1vEP/AELI/wDBhH/hTU1bxDt48NDqf+YhH6/SgDoKav3n/wB7+grD/tbxD/0LI/8ABhH/AIU1dW8Q7m/4podf+ghH6D2oA6Co2/4+k/3G/mtYv9reIf8AoWR/4MI/8KjOreIPtCf8U0M7G4+3p6j2oA6Kmt95P97+hrD/ALW8Q/8AQsj/AMGEf+FNbVvEO5f+KaHX/oIR+h9qAOgpsn+qf/dNYf8Aa3iH/oWR/wCDCP8Awpr6t4h8ts+GgBg/8xCP/CgDoKKwf7W8Q/8AQsj/AMGEf+FH9reIf+hZH/gwj/woA3I/un/eP86dXPpq3iHbx4aHU/8AMQj9fpTv7W8Q/wDQsj/wYR/4UAZXw7/1/i7/ALGS5/8AQIq7OuH+GUksqeKnuITBK3iK5LxFg2w7IsjI6/Wu4oAKKKKAOM8Zf8jt4J/6/wCb/wBENXZ1xnjPP/Ca+Ccdft83/ohq7HL/AN1f++v/AK1ABJ/qn/3TTqjkL+W2VXof4v8A61Oy/wDdX/vr/wCtQA6mx/dP+8f50Zf+6v8A31/9amoX2nCr1P8AF7/SgCSmr95/97+goy/91f8Avr/61NUvuf5V6/3vYe1AElFNy/8AdX/vr/61GX/ur/31/wDWoAdTV+8/+9/QU3z09JP+/bf4U1Z03PxJ1/55t6D2oAmqNv8Aj6T/AHG/mtHnp6Sf9+2/wqMzL9pQ4f7jf8s29R7UAWKbJ90f7w/nTfPT0k/79t/hTXnQqOJOo/5Zt6/SgCauM+Lv/JKNc/65J/6MWuv89PST/v23+Fcb8W5lb4U64AHz5SdUYf8ALRfagDtqKKKACiiigDjPAn/Ie8Zf9ho/+ikrs64rwPIqeIPGQIY/8Tk9EJ/5ZJ6V2Pnp6Sf9+2/woAG/4+k/3G/mtSVXMy/aUOH+43/LNvUe1SeenpJ/37b/AAoAdJ90f7w/nTqhedCo4k6j/lm3r9Kd56ekn/ftv8KAHSf6p/8AdNOqGSdDG3EnQ/8ALNv8Kd56ekn/AH7b/CgCSmx/dP8AvH+dN89PST/v23+FNSdAp4k6n/lm3r9KAJqav3n/AN7+gpvnp6Sf9+2/wpqzpufiTr/zzb0HtQBNUbf8fSf7jfzWjz09JP8Av23+FRmZftKHD/cb/lm3qPagDM1jwymr3LynVdUs1ljEU0VrcbUlQE8EEHbnJGV2nnrWpBbQ2VtbWtrGI4IFEcaDoqhcAfkKf56ekn/ftv8ACmtOm5OJOv8Azzb0PtQBNTZP9U/+6ab56ekn/ftv8KbJOhjbiTof+Wbf4UATUVH56ekn/ftv8KPPT0k/79t/hQA6P7p/3j/OuO+Ff/Ikn/r/ALv/ANHvXWpOgU8SdT/yzb1+lcl8KjnwQf8Ar/u//R70AdnRRRQAVxmsf8lh8Nf9eF5/7Trs64vW2CfGDw0Tn/jwvOgJ/wCefpQB2MihtqsAVJIII68GqWnaBpOj3VzcaVp9vZyXQQTGCMIH2Z25A443HmrTTpuTiTr/AM829D7U7z09JP8Av23+FADpP9U/+6aVmCqWYgKBkknpUUk6GNuJOh/5Zt/hSSz/ALl/JVjJtO0PG23PbPHSgDH0zxfZ6pNAIrO/gt7kE291Pb7IpgATkHORkDI3AZqLT/Gum30lt5UF6lrezGK1vZLcrDO2TgK3XnBwSAD2rnrDQdQXVLaO00m40K1IddQWC8aS1mDROMRw9jvZTnC9O9R+HfCs9jDpFjfaM7tp0ieZevfTvE4jzsdIt3DZVTggAc9aAOgX4gaUyLKLe++zfbPsUtz5I8uGXzDGFY57sByARhhnGaqeKPHEen6Hr76Ul282nxyRm8jt98MNwIwQjE9eSoPBAzyRWfJ4c1M/De/0pbVvts2rG6SP+9H9tEuc9M7B0/Co9U0fXf7A8V6HZaaLhdWuLie3ut4VVEig7WUjO7IIB6cjkYoA7TUtQ+xeEbvUZpni8ixed5o0DMmIyxYKeCRjODxWLH44sor77HJDfXNxaaat5cSpbrjYyB9xw2AflIx6nAz1q/r1rNf+A9S0y2idrq40yW3jQoRl2iKgZxjqetYGm6HqFtqWuTTWrKLzRra1g7lpEjcMPblgM9KAN/TvGWm6lfQ28cdzElzFJNa3M0e2K5RMbmQ5zjDA8gZByKZZ+MbC/wBRsrZba+t1vC32We4g8uOchWJC5Oc4BPIHSsdtF1PZ4T+zwtBLpmmzQyyFciCVoEReO/zA9MjisuHQdaS48PX8mlzveadOHvGnvnme5byXVmXcSqjcc4469BigDpn+IGkpCtx5F6bSW5FrBdCD93PL5oj2qc+uTkgAhTjOKde+OdMtnvV8i9ltrKUwXV7HbkwQPkAhm6/LnkgEDnNcIHki8JaL4aH2eVLTXIYUuIplkM6pdZ+VRyGC5LZ6bT1zWs/hS7im1e1n0h9Qivr6aeK4N/NDCsMr7mR41I5G5+gIPGaAPS6KhjkjiiWNFkCqAoHlt0H4U7z09JP+/bf4UAOj+6f94/zp1QpOgU8SdT/yzb1+lO89PST/AL9t/hQByHw7/wBf4u/7GS5/9Airs64v4dHdN4uIzz4jueox/BFXaUAFFFFAHGeMv+R28E/9f83/AKIauzri/GbBfGngonOPt83QZ/5YNXYeenpJ/wB+2/woAdJ/qn/3TTqhknQxtxJ0P/LNv8Kd56ekn/ftv8KAJKbH90/7x/nTfPT0k/79t/hTUnQKeJOp/wCWbev0oAmpq/ef/e/oKb56ekn/AH7b/CmrOm5+JOv/ADzb0HtQBNRUfnp6Sf8Aftv8KPPT0k/79t/hQBJTV+8/+9/QUeYn99fzpqyJuf5l6+vsKAJKjb/j6T/cb+a07zE/vr+dRtIn2pPmX7jd/daAJqbJ90f7w/nR5if31/OmvIhUYZeo7+9AElcZ8Xf+SUa5/wBck/8ARi12PmJ/fX864z4uOp+FOuAMpPlJ3/6aLQB2tFFFABRRRQB5npOpa1pt740l8PaH/a9x/bDYjNysQU+UnPzdfoOegHXjy7xl8U/iE929pqAn8PKxJW3igaF9uMffb5j9QQMnPpj2nwKyrr/jLcwH/E5PU/8ATJK6u9tbHUbVrbUILe7t3+9FOiurfUHigDz74bavrz+AdFYaQ1+PIkxcPfKDIPM77hnjpXW/2tr/AP0LX/k/H/hV6wsrHSYoLPTYora1iR9kUfCplgcD05Jq75if31/OgDCfVdf2j/imu4/5f4/X6U7+1tf/AOha/wDJ+P8AwrZeRCowy9R396x7zxXZWniWHQ/Iup7yWOOb9ygZUR3ZdzHPABQ5Pbj1xQAyTVdf8tv+Ka7H/l/j/wAKd/a2v/8AQtf+T8f+FVY/HWlXMkaxw3otbic2sN88BEEkmSoAbOcFhgHGCcc1W0rx8l29wL7T7m3VdUGnxEKpwxIAD/NwQTzjjGMZ5oA0/wC1tf8A+ha/8n4/8Kamq6/tP/FNdz/y/wAfr9KTVfGml6PPqEV0JmbT4YZ5iiqRtlcouMkZ5Bz7VTXx/YCa3tv7O1Q3N1C9xBB9mG90DY6buODnnHHvxQBf/tbX/wDoWv8Ayfj/AMKauq6/uf8A4prv/wA/8foPar+ja3Z67pUWoWTMsUhZSko2ujKxVlYdiCCK5yHx1Y2LyJcvfXz3Oq3NnbrHbLuVo+NgAPI4IDHr1OOtAGt/a2v/APQtf+T8f+FRtquv/aU/4pvnY3H2+P1HtUL+P9KSaVDDeGO3uBbXM4iHl20hk2AOc+pU8Z4YHvS6p4103S9QmWaG8lhsxi6uYoMxQZ2nJbIyAOuM4oAs/wBra/8A9C1/5Px/4U1tV1/cn/FNd/8An/j9D7Ut74v02y1Kay2XFw1tGkt1LBHuS3R84Zzn0BPGTgZqqvjzTLiLTWsbe9vJr62F5HbwQhpEhPAZ+cLycdeaALf9ra//ANC1/wCT8f8AhTZNV1/y2/4prsf+X+P/AArR0rWLPWdLhv7GXMMwOA42spBIKsDyCCCCPUVakkQxthl6HvQBjf2tr/8A0LX/AJPx/wCFH9ra/wD9C1/5Px/4Vt+Yn99fzo8xP76/nQBhJquv7T/xTXc/8v8AH6/Ssn4Tlm8CguuxjfXZK5zg+e/Ga7FJECnLL1Pf3rkPhV/yJJ/6/wC7/wDR70AdnRRRQAVxmsf8lh8Nf9eF5/7Trs64vWiF+MHhokgD7Bedf+2dAHZN95P97+hp1RtIm5PmXr6+xp3mJ/fX86ACT/VP/umnVHJIhjbDL0PeneYn99fzoAdTY/un/eP86PMT++v501JECnLL1Pf3oAkpq/ef/e/oKPMT++v501ZE3P8AMvX19hQBJUbf8fSf7jfzWneYn99fzqNpE+1J8y/cbv7rQBNTW+8n+9/Q0eYn99fzprSJuT5l6+vsaAK6aPpkWpNqMenWiXzAhrpYFEpB6gvjNWpP9U/+6aPMT++v502SRDG2GXoe9AElFN8xP76/nR5if31/OgAj+6f94/zp1RpIgU5Zep7+9O8xP76/nQBx3w7/ANf4u/7GS5/9Airs64z4dHM3i4jkf8JJc/8AoEVdnQAUUUUAcZ4y/wCR28E/9f8AN/6IauzrjPGZA8a+CSTgfb5v/RDV2PmJ/fX86ACT/VP/ALpp1RySIY2wy9D3p3mJ/fX86AHU2P7p/wB4/wA6PMT++v501JECnLL1Pf3oAkpq/ef/AHv6CjzE/vr+dNWRNz/MvX19hQBJRTfMT++v50eYn99fzoAdTV+8/wDvf0FOpq/ef/e/oKAHVG3/AB9J/uN/NakqNv8Aj6T/AHG/mtAElNk+6P8AeH86dTZPuj/eH86AHVxnxd/5JRrn/XJP/Ri12dcZ8Xf+SUa5/wBck/8ARi0AdnRRRQAUUUUAcZ4E/wCQ94y/7DR/9FJXZ1xngT/kPeMv+w0f/RSV2dAEbf8AH0n+4381qSo2/wCPpP8Acb+a1JQA2T7o/wB4fzrBj0q7X4lXGrmIfY30iK1WTcM+Ys0jEY69GHPSt6T7o/3h/OnUAea6B4Ju9P0200rVNJ+0m0kBa/bU5PJdEfcjCEN94YXgjGRnNWJPDuvQR6olvYRylNfXV7VjcKBcJvUlP9lsBuTxmvQJP9U/+6adQB5pr/hzxFrj+JLk6WsZ1CytIbaAzxlv3czMwY5xnBz6c45rqTpV0/xHt9X8oGzj0qa2Mm4ZEjTIwGOvRTzXRU2P7p/3j/OgDB8GaVd6Pok9vfxiOV7+6mUBg3yPMzKePYiue0vwrqsHiSwuZ7ZRDb6/qV7I3mKcRTI4jOM5ySw46ivQaav3n/3v6CgDh9R8Nalc+FvE1lHa5m1DVRcQL5i/PHui+bOcDhG4PPFUPEfhXXdZ/t60mga6kvFm+wXMl+ywxRlFCp5QON2cjJHO7JPGK9JqNv8Aj6T/AHG/mtAHnXnXei6p4ha4js4zqFhBJKs15HusykbREuucspChhj3HFVdJ8KXyWXhzUfsMt9A2g21rNbRXrW0kci5cNkMAR+8YEZ4xXo97o+malNFLqOnWl3JCQY3ngVyhBzkEjjnmrTfeT/e/oaAMzw3pv9laHDbtaxWkjFpZYopnlVXYlm+duWOTyfXNacn+qf8A3TTqbJ/qn/3TQA6iiigBsf3T/vH+dcd8K/8AkST/ANf93/6Peuxj+6f94/zrjvhX/wAiSf8Ar/u//R70AdnRRRQAVxmsf8lh8Nf9eF5/7Trs64zWP+Sw+Gv+vC8/9p0Adi33k/3v6GnU1vvJ/vf0NOoAbJ/qn/3TTqbJ/qn/AN006gApsf3T/vH+dOpsf3T/ALx/nQA6mr95/wDe/oKdTV+8/wDvf0FADqjb/j6T/cb+a1JUbf8AH0n+4381oAkprfeT/e/oadTW+8n+9/Q0AOpsn+qf/dNOpsn+qf8A3TQA6iiigBsf3T/vH+dOpsf3T/vH+dOoA4z4d/6/xd/2Mlz/AOgRV2dcZ8O/9f4u/wCxkuf/AECKuzoAKKKKAOM8Zf8AI7eCf+v+b/0Q1dnXGeMv+R28E/8AX/N/6IauzoAbJ/qn/wB006myf6p/9006gApsf3T/ALx/nTqbH90/7x/nQA6mr95/97+gp1NX7z/739BQA6iiigBvlj1b/vo01UG5+W6/3j6CpKav3n/3v6CgA8serf8AfRqNkH2pOW+438R9Vqao2/4+k/3G/mtADvLHq3/fRproAo5bqP4j61JTZPuj/eH86ADyx6t/30a4z4uIB8KdcPzf6pP4j/z0Wu1rjPi7/wAko1z/AK5J/wCjFoA7OiiigAooooA4vwKobX/GWc/8hk9CR/yySuy8serf99GuO8Cf8h7xl/2Gj/6KSuzoAhZB9qTlvuN/EfVak8serf8AfRprf8fSf7jfzWpKAOe1XX5bfWG0rSdNl1G8it1uZlE4jWNCxCjJ6sxVsDHbkjisMa/qs/jwpp9hdzLJocNwNOuZzb+U5mlDFs5Ab5VX3+gJra1PRtVj8RSavoVxaI11bR21xHcqxHyOxSRcdSN7DB68cil03w/f2niwate3yXmdJispJCgR5JUkdy+0DaAd/QdP1oArL4te+0Cw1HSdKnuBewNI3mziKOArwVdzxnIIGAenaqy+PVmtNFktNKmnn1W4ntfIW4A8qWINuG7oVyp5445x2rOsfh/qFjaaSbn+y79rG1nge3u0aSJWeUuJUyPvAfLyBwSMjvb0bwPqWl6no5lu7SW10y/u7oMqsjuJ1kGNuMDBcdD2NAFp/Gxgs5EudKmTVF1NNMWyW5yGldBIp38ALsO7OO1H/Cai1/tiLUtMmguNLSAmKOcP57zu6xoh4HJVeT/e5xg1R8UaDLZPfa5JeRQ7dZtdRtyYpJFXZAsBWTaMqpG47hwOM1QstJfxzL4om+0wyQ3S2aW9ykbPAJYHkkwucb0G5AT3JYUAdXpHiN77XG0nULA2d19nNzEY7oTRyIGCt8wxhgWXIx361HqniaWz8RnRtO08Xl0IBcMsl4sGVJIAQHJdvlPoBxzzUmg6BLYai93cWOjWX7ry0TTrYKSc8kuQDg8fLj8TUHiPQdQ1i5mUWui6jaOFCRajEwa3YDllZQSc8cfKRjrQAXXix11JNP0/S5Z7tbVLm4S4uVgEAckKhJzlztbgccdao/8ACV3+o6xobaHYrLb39lczGO4uvLbfG8aMhIVsFS3Y4PPpzFH4Amsrm1uUXTdWlGnwWVyNUh35aIECVWwSCQxyD1wOa0U8O39nqfhyazksN2nwTw3SiDyUZZWjLtGq8A5TgHjnmgDJ8P8Aie81WTwxLqcU6NqNxdJE8N3hHCo7fvEA5wEwOeuG9hZ0vx6+o2mh6hLo0tvp2rzrbxXBugzJIytgFMA43KVz7Zxgio9C8F6zpt1oCXdzYyWmiXNzJG0W8SSJKkijIIxn5x37GpbXwZf2vhDwrpBntmm0e+gnmcM211TcTt4znkdcfWgBtz8QJI9PfU7bRJZtL+2GzjumvAhdg+wttwSF3AgdyccDOa7WRAI25bof4jXkepwzRaXL4N07UIZ2GsJJBbGGRbh1NyJW3AgARruLeYMg4FevSf6p/wDdNAB5Y9W/76NHlj1b/vo06igCNEBU8t1P8R9a5D4Vf8iSf+v+7/8AR712Mf3T/vH+dcd8K/8AkST/ANf93/6PegDs6KKKACuL1oZ+MHhrOf8AjwvOhx/zzrtK4zWP+Sw+Gv8ArwvP/adAHXsg3Jy3X+8fQ07yx6t/30aG+8n+9/Q06gCORAI25bof4jTvLHq3/fRrJufFOiQ376fJqMS3O/ySvOFkIyELY2hjkcE55rK0jx3ZTzXcGsTRWsyapNYwBY32sFlMabm5ALFT1IoA6vyx6t/30aaiAqeW6n+I+tZWoeLtC0u8a1v9RjimRlWRdrMIy3I3kAhcjnnFMvPF+haXd3FpfX4jubcB5YhE7MqtkhsAHI4PI6d6ANryx6t/30aaqDc/Ldf7x9BWZd+KtEsVtTcX6f6XD58AjVnLx4B34UEheRyeKY3ivRIrBL5tQQ29xM8MLKrM0rpkMqqBk4Kt0HagDY8serf99Go2Qfak5b7jfxH1WotM1Wx1iyF3plylzAWK70PRgcEEdQR6Gs4+K9EOtpYi/TzhI1tnY2zzcgeXvxt3Z425znjrQBteWPVv++jTWQbk5br/AHj6GsuXxZocOpNYS6hGs6yiFvlbYsh6IXxtDcj5Sc81kan8RdJ07+1/NiumbSJlikAgfEjFQeDtwOWxz16jgigDrfLHq3/fRpsiARty3Q/xGsQeLNOhmv5rzULeGyto7ZzvjkjeLziVUybhwCcY4GOc1Pa+KNG1FLwWt/GTaw+dN5itHtjIOH+YDK8H5hx70Aa3lj1b/vo0eWPVv++jWPY+L9C1G5jt7TUEaaRDIiMjIWQDJf5gPlx0bocHHSn6b4q0XVrtLawvRJLIhkiDRuglUdWQsAHHI5XPWgDTRAVPLdT/ABH1p3lj1b/vo0R/dP8AvH+dOoA4z4dDE3i7/sZLn/0CKuzrjPh3/r/F3/YyXP8A6BFXZ0AFFFFAHGeMxnxr4JH/AE/zf+iGrsfLHq3/AH0a47xl/wAjt4J/6/5v/RDV2dAEciARty3Q/wARp3lj1b/vo0Sf6p/9006gBvlj1b/vo01EBU8t1P8AEfWpKbH90/7x/nQAeWPVv++jTVQbn5br/ePoKkpq/ef/AHv6CgA8serf99Gjyx6t/wB9GnUUANw/95f++f8A69NUPuf5l6/3fYe9SU1fvP8A739BQAYf+8v/AHz/APXqNg/2pPmX7jfw+6+9TVG3/H0n+4381oAdh/7y/wDfP/16a4faMsvUfw+/1qSmyfdH+8P50AGH/vL/AN8//XrjPi4H/wCFU65krjyk7f8ATRfeu1rjPi7/AMko1z/rkn/oxaAOzooooAKKKKAPOvC+vafpPiXxfFf3PkO+sFlBidsjykHUDFdN/wAJnof/AEEV/wDAeT/CsvwJ/wAh7xl/2Gj/AOikrs6AOcPjPQ/tCH+0V+43/LvJ6j2qT/hM9D/6CK/+A8n+Fbbf8fSf7jfzWpKAOefxnoe3/kIr1H/LvJ6/Snf8Jnof/QRX/wAB5P8ACt2T7o/3h/OnUAc8/jPQ/Lb/AImK9D/y7yf4U7/hM9D/AOgiv/gPJ/hW7J/qn/3TTqAMD/hM9D/6CK/+A8n+FNTxnoe3/kIr1P8Ay7yev0roabH90/7x/nQBhf8ACZ6H/wBBFf8AwHk/wpq+M9D3N/xMV6/8+8np9K6Gmr95/wDe/oKAML/hM9D/AOgiv/gPJ/hUZ8Z6H9oQ/wBor9xv+XeT1HtXR1G3/H0n+4381oAxP+Ez0P8A6CK/+A8n+FNbxnoe5f8AiYr1/wCfeT0+ldDTW+8n+9/Q0AYX/CZ6H/0EV/8AAeT/AApr+M9D8tv+JivQ/wDLvJ/hXQ02T/VP/umgDC/4TPQ/+giv/gPJ/hXmPin44X/h3xxc2ljb2mp6UqxsoYNFICUBIDdufVTXttcLrnwk8P8AiXxdPr2tvdXDTJGv2ZZNkY2gDkj5jkAdx39sAFHwv8a/DXiCWO1ma4068kOBFNAXVj1OGTPA9WC1q/Cr/kST/wBf93/6Pet/RfDuj6BbmPRtNtrJctkwxAMcnuep6Dr6D0rA+Ff/ACJJ/wCv+7/9HvQB2dFFFABXF61n/hcHhrBAP2C86j/rnXaVxmsf8lh8Nf8AXhef+06AOvYPuT5l6/3fY+9Ow/8AeX/vn/69DfeT/e/oadQBwenR32l2l5ok/h6TUHk1SafzpkHkSRSTGQSlzkZUN93Gcp+NZt5o2pL8OfFVvHYT/abnXJ544kgYvKpulZXUDkjaAcjsK9Mk/wBU/wDumnUAeXeJdN8QapZ+KbL7Pf8AnTmRbO3tYY47aeLyxhnkxuZyS3BbqAAO9bfhOyuZfGGuahc2M0EU9nZwxvcwFd5XzQ6jPXnbn6iu2psf3T/vH+dAHmXhWz1Pw/qGhXl9pl5Ij+HIbErFCWeGWOQsVZcgrkMOenHaqOiaZqH9k6BqVuL2K1tp9ThnGmosjw+Zckqyhgdy/JjIBOCOxNek6v4b0rXZI5NStTJLEpVJY5XicKeq7kIODjpnFXLGzt9PtEtLGFILeEBI4oxhVUAYAFAGL4Q017GyvZdt5G15dtO32/Z5jnAXfhAAuQoOOvc8muYMGp2OvInh+01a1km1Evc2FzAslmyNKDJKshzsyMuArZzxt5r0mo2/4+k/3G/mtAHl0fhy9Sx1DQtT/t+T7VfyuEs0jEE0ckxcSebt+UgHJBIORx2qz4o03U7iHxpYwaddSyXs1vd2zJCSkypFCrBWzjdlG+XqcV6ZTW+8n+9/Q0AeX+INL1LWJPFNxb6bdNFfLpBhSS3ZWkEc5Ljaf7o5I7Crvjjw/qmsazrAs4jsn8NvAkxG1DJ527ZuzgEgd/WvRahvIIrqxnt7mNZYZY2SSNxkMpGCCPQigDz++vZdY8e6Ay6LcxAaZfqYrmMRGT5YgY+vABwN3T5uM1N4Yj1S11vTrTTV1gaRHA4uLfV7YAWeFARYpThm5+XGWGOc11WkeF9I0OdptNtWSVoxEHkmeVkQc7FLsdq8D5RgcD0rWoAjQPtOGXqf4ff607D/AN5f++f/AK9cX4o+KOh+DPEMOka3FdKZoBcCeKMOigyMuCM5/hJ4Bre0TxZoPiNA2iata3ZOf3aPhxjr8hww/KgDE+HX+u8XZ6/8JJc/+gRV2dcZ8O/9f4u/7GS5/wDQIq7OgAooooA4zxnn/hNfBOOv2+b/ANENXY4f+8v/AHz/APXrjvGX/I7eCf8Ar/m/9ENXZ0ARyB/LbLL0P8P/ANenYf8AvL/3z/8AXok/1T/7pp1ADcP/AHl/75/+vTUD7Thl6n+H3+tSU2P7p/3j/OgAw/8AeX/vn/69NUPuf5l6/wB32HvUlNX7z/739BQAYf8AvL/3z/8AXow/95f++f8A69OooAbl/wC6v/fX/wBamqX3P8q9f73sPapKav3n/wB7+goAMv8A3V/76/8ArVGxf7Unyr9xv4vdfapqjb/j6T/cb+a0AOy/91f++v8A61NcvtGVXqP4vf6VJTZPuj/eH86ADL/3V/76/wDrVxnxcL/8Kp1zIXHlJ3/6aL7V2tcZ8Xf+SUa5/wBck/8ARi0AdnRRRQAUUUUAcX4FLf2/4y2gH/icnqcf8skrssv/AHV/76/+tXHeBP8AkPeMv+w0f/RSV2dAELF/tSfKv3G/i919qky/91f++v8A61Nb/j6T/cb+a1JQBG5faMqvUfxe/wBKdl/7q/8AfX/1qJPuj/eH86dQBHIX8tsqvQ/xf/Wp2X/ur/31/wDWok/1T/7pp1ADcv8A3V/76/8ArU1C+04Vep/i9/pUlNj+6f8AeP8AOgAy/wDdX/vr/wCtTVL7n+Vev972HtUlNX7z/wC9/QUAGX/ur/31/wDWqNi/2pPlX7jfxe6+1TVG3/H0n+4381oAdl/7q/8AfX/1qaxfcnyr1/vex9qkprfeT/e/oaADL/3V/wC+v/rU2Qv5bZVeh/i/+tUlNk/1T/7poAMv/dX/AL6/+tRl/wC6v/fX/wBanUUARoX2nCr1P8Xv9K5D4Vf8iSf+v+7/APR712Mf3T/vH+dcd8K/+RJP/X/d/wDo96AOzooooAK4LxTp9tqfxW8NW95EJYjY3Z2lyvI2dxzXe1xmsf8AJYfDX/Xhef8AtOgDSbwZoe5f+JcvX/n4k9PrTv8AhDND/wCgcv8A4ESf41ut95P97+hp1AHPP4M0Py2/4ly9D/y8Sf407/hDND/6By/+BEn+Nbsn+qf/AHTTqAMD/hDND/6By/8AgRJ/jTU8GaHt/wCQcvU/8vEnr9a6Gmx/dP8AvH+dAGF/whmh/wDQOX/wIk/xpq+DND3N/wAS5ev/AD8Sen1roaav3n/3v6CgDC/4QzQ/+gcv/gRJ/jUZ8GaH9oQf2cv3G/5eJPUe9dHUbf8AH0n+4381oAxP+EM0P/oHL/4ESf401vBmh7l/4ly9f+fiT0+tdDTW+8n+9/Q0AYX/AAhmh/8AQOX/AMCJP8aa/gzQ/Lb/AIly9D/y8Sf410NNk/1T/wC6aAML/hDND/6By/8AgRJ/jR/whmh/9A5f/AiT/Gt+igDxjxx8GLzxN4tt59FktdP01LURyvLI7tvEjk4XnPBXuBWt4e+A/hvSGjm1Np9WuEIbMkhijDDuFXnr2LGvT4/un/eP86dQBxPw1iWH/hK4kGFTxFcKoLE4AjiHU8mu2rjPh3/r/F3/AGMlz/6BFXZ0AFFFFAHGeM8/8Jr4Jx1+3zf+iGrscv8A3V/76/8ArVx3jL/kdvBP/X/N/wCiGrs6AI5C/ltlV6H+L/61Oy/91f8Avr/61En+qf8A3TTqAG5f+6v/AH1/9amoX2nCr1P8Xv8ASpKbH90/7x/nQAZf+6v/AH1/9amqX3P8q9f73sPapKav3n/3v6CgAy/91f8Avr/61GX/ALq/99f/AFqdRQBH56ekn/ftv8Kas6bn4k6/8829B7VNTV+8/wDvf0FADfPT0k/79t/hUZmX7Shw/wBxv+Wbeo9qsVG3/H0n+4381oAPPT0k/wC/bf4U150KjiTqP+Wbev0qamyfdH+8P50AN89PST/v23+Fcb8W5lb4U64AHz5SdUYf8tF9q7auM+Lv/JKNc/65J/6MWgDs6KKKACiiigDivA8ip4g8ZAhj/wATk9EJ/wCWSeldj56ekn/ftv8ACuQ8Cf8AIe8Zf9ho/wDopK7OgCuZl+0ocP8Acb/lm3qPapPPT0k/79t/hQ3/AB9J/uN/NakoAhedCo4k6j/lm3r9Kd56ekn/AH7b/CnSfdH+8P506gCGSdDG3EnQ/wDLNv8ACneenpJ/37b/AAp0n+qf/dNOoAj89PST/v23+FNSdAp4k6n/AJZt6/SpqbH90/7x/nQA3z09JP8Av23+FNWdNz8Sdf8Anm3oPapqav3n/wB7+goAb56ekn/ftv8ACozMv2lDh/uN/wAs29R7VYqNv+PpP9xv5rQAeenpJ/37b/CmtOm5OJOv/PNvQ+1TU1vvJ/vf0NADfPT0k/79t/hTZJ0MbcSdD/yzb/CpqbJ/qn/3TQA3z09JP+/bf4UeenpJ/wB+2/wqSigCFJ0CniTqf+Wbev0rkvhUc+CD/wBf93/6Peuxj+6f94/zrjvhX/yJJ/6/7v8A9HvQB2dFFFABXF62wT4weGic/wDHhedAT/zz9K7SuF8TXX2L4qeHrnyJrjy9OvCY4E3u3MfQd/pQB2jTpuTiTr/zzb0PtTvPT0k/79t/hXiHiv4+ajY3b2eleHJLCaPOTqqssg9MxjGOPc8n25ufCT4ja5r1zrk2vi+1TaYPJS0tlKwA+ZkYGMZwOuSdtAHsMk6GNuJOh/5Zt/hTvPT0k/79t/hWJJ4o/dt/xI9Z6H/l0/8Ar07/AISj/qB61/4Cf/XoA2fPT0k/79t/hTUnQKeJOp/5Zt6/Ssj/AISj/qB61/4Cf/XpqeKPlP8AxI9Z6n/l09/rQBt+enpJ/wB+2/wpqzpufiTr/wA829B7Vkf8JR/1A9a/8BP/AK9NXxR8z/8AEj1nr/z6ew96ANvz09JP+/bf4VGZl+0ocP8Acb/lm3qPasr/AISj/qB61/4Cf/XqNvE/+kof7D1n7jf8unuPegDd89PST/v23+FNadNycSdf+ebeh9qyP+Eo/wCoHrX/AICf/XpreKPmT/iR6z1/59PY+9AG356ekn/ftv8ACmyToY24k6H/AJZt/hWR/wAJR/1A9a/8BP8A69Nk8Ufu2/4kes9D/wAun/16ANvz09JP+/bf4UeenpJ/37b/AArG/wCEo/6getf+An/16P8AhKP+oHrX/gJ/9egDXSdAp4k6n/lm3r9Kd56ekn/ftv8ACsRPFHyn/iR6z1P/AC6e/wBad/wlH/UD1r/wE/8Ar0AZHw6O6bxcRnnxHc9Rj+CKu0riPhlP9pXxVMI5I9/iK5bZKu1l+SLgjsa7egAooooA4vxmwXxp4KJzj7fN0Gf+WDV2Hnp6Sf8Aftv8K5Dxl/yO3gn/AK/5v/RDV2dAEMk6GNuJOh/5Zt/hTvPT0k/79t/hTpP9U/8AumnUAR+enpJ/37b/AApqToFPEnU/8s29fpU1Nj+6f94/zoAb56ekn/ftv8Kas6bn4k6/8829B7VNTV+8/wDvf0FADfPT0k/79t/hR56ekn/ftv8ACpKKAG+Yn99fzpqyJuf5l6+vsKkpq/ef/e/oKADzE/vr+dRtIn2pPmX7jd/damqNv+PpP9xv5rQA7zE/vr+dNeRCowy9R396kpsn3R/vD+dAB5if31/OuM+LjqfhTrgDKT5Sd/8ApotdrXGfF3/klGuf9ck/9GLQB2dFFFABRRRQBxfgVlXX/GW5gP8Aicnqf+mSV2XmJ/fX864HwvrGm6LqnjS51e+t7KEawx3zyBc4ij6Z69RwPUVm6/8AHzwxpbPFpMVxq8ykjMY8qLgf3m568ZCnufTIB6Y0ifak+ZfuN391qTzE/vr+dcr4S8bWXiLw7p2q3tzZ2c9xDIZIPtC/IQ+McnPat7+3NJ/6Cll/4EJ/jQBaeRCowy9R396d5if31/OqL65pO0f8TSy6j/l4T1+tO/tzSf8AoKWX/gQn+NAFqSRDG2GXoe9O8xP76/nVGTXNJ8tv+JpZdD/y8J/jTv7c0n/oKWX/AIEJ/jQBc8xP76/nTUkQKcsvU9/eqv8Abmk/9BSy/wDAhP8AGmprmk7T/wATSy6n/l4T1+tAF7zE/vr+dNWRNz/MvX19hVX+3NJ/6Cll/wCBCf401dc0nc//ABNLLr/z8J6D3oAveYn99fzqNpE+1J8y/cbv7rVf+3NJ/wCgpZf+BCf41E2uaT9qT/iaWf3G/wCXhPVfegDR8xP76/nTWkTcnzL19fY1V/tzSf8AoKWX/gQn+NNbXNJ3J/xNLLr/AM/Ceh96AL3mJ/fX86bJIhjbDL0Peqv9uaT/ANBSy/8AAhP8abJrmk+W3/E0suh/5eE/xoAveYn99fzo8xP76/nVP+3NJ/6Cll/4EJ/jR/bmk/8AQUsv/AhP8aALSSIFOWXqe/vXIfCr/kST/wBf93/6PeujTXNJ2n/iaWXU/wDLwnr9a5v4UsG8D7lIKm/uyCD1/fvQB2lFFFABXF60Qvxg8NEkAfYLzr/2zrtK4zWP+Sw+Gv8ArwvP/adAHSanp2m6vAsGqWlteQ5PyTxq4GQR36Vm+G/B2geErq+m0CD7KL4RiWISllGzdgjJJH3znmt9vvJ/vf0NOoAjkkQxthl6HvUGoarY6XaG51C6jgiBC7mPUngAAcknsByasyf6p/8AdNc74vtLl5tE1K1tpbtdM1ATzQRDLshjdCyjuVLg468GgC5/wluhf2U2onUYxbJL5LEhg4kzjZsxu3cj5cZpkfi7Qf7Nkvm1KKO3jnEErSgoYnZgFDqQCudw6gcHPSsDUTeahfafrsPh64ittP1UyyRGMCe6jNu0fnmPAbKs2Ap+Yhc46CsrVdI1HWJdY1OHTbpbe+1HTFiglixI6Qy5kkKdQMNjkA4T0xQB1F/480eDw/q2o2M/2qTTbcyvb+W6MSVJTgrkKxH3sY6ntUej+LY2snudZvrNAlnHczCK3ljKbndM4fnb8mB3yCehFZvivSr+71zxPLbWc0qXHhRrWFkQkSS7pvkHq3zDj3FUvFejahdw+IhBp9xcCbw/aQIsaHMkiyylkHuAw/MUAdWfHHhwJEw1NW85XaELG5MoUgMVAGW+8OmcjkcAmi28ZeH7/ULOKz1SGY3KERMudrMQGC7sYDYBO0nPtTZ9Pkb4jabdrbE20GlXMYlC/KjmWHC57EqG/AGuY0/Rr5PCXh23k0+WO4t9ba4kjMZ3In2tjvPoNpBz6GgDrj4v0FdT+wHUY/P877OTtbYJf+efmY27u2M5zx1rLm8eafNJqkNpMttJpd1FA813BJ5TbigOMDOcvtHvg/d5rlNStdfvNLl+02WsTX0OqLcTWsMKparClyGBjwB5rFAp6s2c1PrWnajPb+KrWLTL1nvtVsr23YQNtkjBt92D6ja2R1GDQB3F54w0Gwv3s7vUo45YiolO1ikRb7odwNqZ9yKZqfjLQNMmura81FEnt1zNGqM7IpXduIUH5cEc9BXLX1pqFpofi3QBo95c3WsXFy9pPDGGhkE6YUs/RNp4O7HCjGat6fot7Z33jAS28j+fYW0MM2w4nKW7Kdp78/zoA7aK5gnhSWGaOSORQyOrAhgeQQfSn+Yn99fzrJ8H201n4H0K2uomhnh063jkjcYZGEaggj1BFbFAEaSIFOWXqe/vTvMT++v50R/dP+8f506gDjPh0czeLiOR/wAJJc/+gRV2dcZ8O/8AX+Lv+xkuf/QIq7OgAooooA4zxmQPGvgkk4H2+b/0Q1dj5if31/OuO8Zf8jt4J/6/5v8A0Q1dnQBHJIhjbDL0PeneYn99fzok/wBU/wDumnUAN8xP76/nTUkQKcsvU9/epKbH90/7x/nQAeYn99fzpqyJuf5l6+vsKkpq/ef/AHv6CgA8xP76/nR5if31/OnUUAFNX7z/AO9/QUeWPVv++jTVQbn5br/ePoKAJKjb/j6T/cb+a07yx6t/30ajZB9qTlvuN/EfVaAJqbJ90f7w/nR5Y9W/76NNdAFHLdR/EfWgCSuM+Lv/ACSjXP8Arkn/AKMWux8serf99GuM+LiAfCnXD83+qT+I/wDPRaAO1ooooAKKKKAPP/C2j6ZrGr+M4dW0+1vY/wC2j8txCrgfuk9R7mszX/gD4X1IM+jy3OjzEcBG86LPqVY5/JgK3/Aqhtf8ZZz/AMhk9CR/yySuy8serf8AfRoA5bwp4Ls/D/h/T9Kv7ezvZ7aKRWuDAP3nz5B556ECt3+w9J/6Bdl/4Dp/hVhkH2pOW+438R9VqTyx6t/30aAKL6HpO0f8Suy6j/l3T1+lO/sPSf8AoF2X/gOn+FWnQBRy3UfxH1rk/E8cFx4z0Ow1h/8AiU3EFwxikkIjlnXZsVueflLkA9x7UAdBJoek+W3/ABK7Lof+XdP8Kd/Yek/9Auy/8B0/wrgmj0S81rRdO+3S3fh3yb024uJmMctzHIqiPJxuVFMm3kggcZwDWbDCt7daXYCeZ9KHii5t7XZcNhrcWzEoGByU371xnoMdKAPQNZh0DQtJl1C90q3aKMquyK0VndmYIqqMckswH40/T9P0u8Ry+gR2xQjie1jGcqG4xnOM7T7g/WvPdW0qyWHxTpYt1NjZa3phtoGJKw+abfzNuegO5uOnJqbVrSP7XqmnxyPbW3/CS6baqsTldkZggXauOnBxkdM5oA9I/sPSf+gXZf8AgOn+FNXQ9J3P/wASuy6/8+6eg9q4e98NaZL4g8SWzQt9lsNFtvs8AlcIjH7QdwGfvDbweoyag0iOLTv+EO1iOS5kuL/T5JL6XzGZ7r/RVl+bJOTuGQO3TpQB6D/Yek/9Auy/8B0/wrNMGhS3EBs9KtrtGmktnaC2RhE6nDFvQAqQevNee6XPBDq3hG+i+x2g1actJsvnmuJYpIXbE7HAJLbeMcMMDpTNHtLOyt9AWxRIZG8W3EcwjODtU3AUH6DpQB6v/Yek/wDQLsv/AAHT/Cmtoek7k/4ldl1/5909D7V5jELYeCrTWIbgnxbJqkaO/nnz2lN0EeIrn7oTcNuMbRnFRatYxf8ACHeNNZLTHULHV7g2k5mbNvtZWGznC8nJ9e/FAHqv9h6T/wBAuy/8B0/wpsmh6T5bf8Suy6H/AJd0/wAKveWPVv8Avo02RAI25bof4jQBV/sPSf8AoF2X/gOn+FH9h6T/ANAuy/8AAdP8KueWPVv++jR5Y9W/76NAFFND0naf+JXZdT/y7p6/Sub+FKhfA+1QAov7sAAdP3712CICp5bqf4j61yHwq/5Ek/8AX/d/+j3oA7OiiigArjNY/wCSw+Gv+vC8/wDaddnXF60M/GDw1nP/AB4XnQ4/550Adk33k/3v6GnVGyDcnLdf7x9DTvLHq3/fRoAJP9U/+6adUciARty3Q/xGneWPVv8Avo0AOpsf3T/vH+dHlj1b/vo01EBU8t1P8R9aAJKav3n/AN7+go8serf99Gmqg3Py3X+8fQUASVG3/H0n+4381p3lj1b/AL6NRsg+1Jy33G/iPqtAE1Nb7yf739DR5Y9W/wC+jTWQbk5br/ePoaAJKbJ/qn/3TR5Y9W/76NNkQCNuW6H+I0ASUU3yx6t/30aPLHq3/fRoAI/un/eP86dUaICp5bqf4j607yx6t/30aAOO+Hf+v8Xf9jJc/wDoEVdnXGfDoYm8Xf8AYyXP/oEVdnQAUUUUAcZ4y/5HbwT/ANf83/ohq7OuM8ZjPjXwSP8Ap/m/9ENXY+WPVv8Avo0AEn+qf/dNOqORAI25bof4jTvLHq3/AH0aAHU2P7p/3j/Ojyx6t/30aaiAqeW6n+I+tAElNX7z/wC9/QUeWPVv++jTVQbn5br/AHj6CgCSim+WPVv++jR5Y9W/76NADqav3n/3v6CjD/3l/wC+f/r01Q+5/mXr/d9h70ASVG3/AB9J/uN/Nadh/wC8v/fP/wBeo2D/AGpPmX7jfw+6+9AE1Nk+6P8AeH86MP8A3l/75/8Ar01w+0ZZeo/h9/rQBJXGfF3/AJJRrn/XJP8A0Ytdjh/7y/8AfP8A9euM+Lgf/hVOuZK48pO3/TRfegDtaKKKACiiigDjPAn/ACHvGX/YaP8A6KSuzri/Au7+3/GW0gf8Tk9Rn/lkldlh/wC8v/fP/wBegBrf8fSf7jfzWpKhYP8Aak+ZfuN/D7r71Jh/7y/98/8A16ACT7o/3h/Oo7uztb+3MF9bQ3MJOTHNGHU/gac4faMsvUfw+/1p2H/vL/3z/wDXoArXWm2Nxpv2O4sreW1RflgeJWRcdMKRjipBY2irAq2sIW3OYQIxiI4x8vpwSOPWnyB/LbLL0P8AD/8AXp2H/vL/AN8//XoAiawtHaUvawMZmV5SYwd7LjaT6kYGCemBTBYWkhZ5LWBmaYSsWjBJdeFb6jAweowKsYf+8v8A3z/9emoH2nDL1P8AD7/WgBDbQGSVzBGXmUJI2wZdRnAJ7gZPHuaZFZ20ZjCW8Si2+WABAPKG0DC+nHHHapsP/eX/AL5/+vTVD7n+Zev932HvQBVTQ9JjjeOPTLNUkcSOq26AMw5DEY5I9aT+ytPXUVmWwthKzGZpBCu4yDAD5x97BPPXk1dw/wDeX/vn/wCvUbB/tSfMv3G/h9196AGDTLBdQN8tlbi8IwbgRL5hHpuxmkk0+zeF4HtIGhuHLTRmIFZCRyWGOSferGH/ALy/98//AF6awfcnzL1/u+x96AJKbJ/qn/3TRh/7y/8AfP8A9emyB/LbLL0P8P8A9egCSim4f+8v/fP/ANejD/3l/wC+f/r0AEf3T/vH+dcd8K/+RJP/AF/3f/o9669A+04Zep/h9/rXIfCr/kST/wBf93/6PegDs6KKKACuM1j/AJLD4a/68Lz/ANp12dcXrWf+FweGsEA/YLzqP+udAHZN95P97+hp1RsH3J8y9f7vsfenYf8AvL/3z/8AXoAJP9U/+6adUcgfy2yy9D/D/wDXp2H/ALy/98//AF6AHU2P7p/3j/OjD/3l/wC+f/r01A+04Zep/h9/rQBJTV+8/wDvf0FGH/vL/wB8/wD16aofc/zL1/u+w96AJKjb/j6T/cb+a07D/wB5f++f/r1Gwf7UnzL9xv4fdfegCamt95P97+how/8AeX/vn/69NYPuT5l6/wB32PvQBJTZP9U/+6aMP/eX/vn/AOvTZA/ltll6H+H/AOvQBJRTcP8A3l/75/8Ar0Yf+8v/AHz/APXoAI/un/eP86dUaB9pwy9T/D7/AFp2H/vL/wB8/wD16AOO+Hf+v8Xf9jJc/wDoEVdnXGfDr/XeLs9f+Ekuf/QIq7OgAooooA4zxl/yO3gn/r/m/wDRDV2dcZ4zz/wmvgnHX7fN/wCiGrscP/eX/vn/AOvQASf6p/8AdNOqOQP5bZZeh/h/+vTsP/eX/vn/AOvQA6mx/dP+8f50Yf8AvL/3z/8AXpqB9pwy9T/D7/WgCSmr95/97+gow/8AeX/vn/69NUPuf5l6/wB32HvQBJRTcP8A3l/75/8Ar0Yf+8v/AHz/APXoAdTV+8/+9/QUZf8Aur/31/8AWpql9z/KvX+97D2oAkqNv+PpP9xv5rTsv/dX/vr/AOtUbF/tSfKv3G/i919qAJqbJ90f7w/nRl/7q/8AfX/1qa5faMqvUfxe/wBKAJK4z4u/8ko1z/rkn/oxa7HL/wB1f++v/rVxnxcL/wDCqdcyFx5Sd/8ApovtQB2tFFFABRRRQBxngT/kPeMv+w0f/RSV2dcX4FLf2/4y2gH/AInJ6nH/ACySuyy/91f++v8A61ADW/4+k/3G/mtSVCxf7Unyr9xv4vdfapMv/dX/AL6/+tQASfdH+8P506o3L7RlV6j+L3+lOy/91f8Avr/61ABJ/qn/AN006o5C/ltlV6H+L/61Oy/91f8Avr/61ADqbH90/wC8f50Zf+6v/fX/ANamoX2nCr1P8Xv9KAJKav3n/wB7+goy/wDdX/vr/wCtTVL7n+Vev972HtQBJUbf8fSf7jfzWnZf+6v/AH1/9ao2L/ak+VfuN/F7r7UATU1vvJ/vf0NGX/ur/wB9f/WprF9yfKvX+97H2oAkpsn+qf8A3TRl/wC6v/fX/wBamyF/LbKr0P8AF/8AWoAkopuX/ur/AN9f/Woy/wDdX/vr/wCtQAR/dP8AvH+dcd8K/wDkST/1/wB3/wCj3rr0L7ThV6n+L3+lch8Kv+RJP/X/AHf/AKPegDs6KKKACuM1j/ksPhr/AK8Lz/2nXZ1xetZ/4XB4awAT9gvOp/650Adk33k/3v6GnVGxfcnyr1/vex9qdl/7q/8AfX/1qACT/VP/ALpp1RyF/LbKr0P8X/1qdl/7q/8AfX/1qAHU2P7p/wB4/wA6Mv8A3V/76/8ArU1C+04Vep/i9/pQBJTV+8/+9/QUZf8Aur/31/8AWpql9z/KvX+97D2oAkqNv+PpP9xv5rTsv/dX/vr/AOtUbF/tSfKv3G/i919qAJqa33k/3v6GjL/3V/76/wDrU1i+5PlXr/e9j7UASU2T/VP/ALpoy/8AdX/vr/61NkL+W2VXof4v/rUASUU3L/3V/wC+v/rUZf8Aur/31/8AWoAI/un/AHj/ADp1RoX2nCr1P8Xv9Kdl/wC6v/fX/wBagDjvh3/r/F3/AGMlz/6BFXZ1xnw6/wBd4uz1/wCEkuf/AECKuzoAKKKKAOM8Zf8AI7eCf+v+b/0Q1dnXGeM8/wDCa+Ccdft83/ohq7HL/wB1f++v/rUAEn+qf/dNOqOQv5bZVeh/i/8ArU7L/wB1f++v/rUAOpsf3T/vH+dGX/ur/wB9f/WpqF9pwq9T/F7/AEoAkpq/ef8A3v6CjL/3V/76/wDrU1S+5/lXr/e9h7UASUU3L/3V/wC+v/rUZf8Aur/31/8AWoAdTV+8/wDvf0FN89PST/v23+FNWdNz8Sdf+ebeg9qAJqjb/j6T/cb+a0eenpJ/37b/AAqMzL9pQ4f7jf8ALNvUe1AFimyfdH+8P503z09JP+/bf4U150KjiTqP+Wbev0oAmrjPi7/ySjXP+uSf+jFrr/PT0k/79t/hWX4l0y28ReGdQ0m58xUu4WTcI2+U9QenYgGgDYorz7S/iKNEso9P8fWV5pl/b/ujcrbSzQXIHSRHUE845B55/K9/wtrwX/0FZv8AwX3P/wAboA7OiuM/4W34L/6Cs3/gvuf/AI3Uc/xW0KWIpoFvqWt3rcR2trYTKWbtlnUBR6nnABOKAJPAn/Ie8Zf9ho/+ikrs65bwRpFxoelXcmqnfqepXkl9eeVG21HfHyDjooAH5nvXS+enpJ/37b/CgAb/AI+k/wBxv5rUlVzMv2lDh/uN/wAs29R7VJ56ekn/AH7b/CgB0n3R/vD+dOqF50KjiTqP+Wbev0p3np6Sf9+2/wAKAHSf6p/9006oZJ0MbcSdD/yzb/CneenpJ/37b/CgCSmx/dP+8f503z09JP8Av23+FNSdAp4k6n/lm3r9KAJqav3n/wB7+gpvnp6Sf9+2/wAKas6bn4k6/wDPNvQe1AE1Rt/x9J/uN/NaPPT0k/79t/hUZmX7Shw/3G/5Zt6j2oAsU1vvJ/vf0NN89PST/v23+FNadNycSdf+ebeh9qAJqbJ/qn/3TTfPT0k/79t/hTZJ0MbcSdD/AMs2/wAKAJqKj89PST/v23+FHnp6Sf8Aftv8KAHR/dP+8f51x3wr/wCRJP8A1/3f/o9661J0CniTqf8Alm3r9K4Kyvn+HOoajbX9ldz6BeXMl7bXltbM/wBlZ/meKRQMgAgkNzwefYA9DorjP+Ft+C/+grN/4L7n/wCN0f8AC2vBf/QVm/8ABfc//G6AOzrjNY/5LD4a/wCvC8/9p0jfFrwhtPkX11cSYysUWnXG5vplAKZ4fXUPEHjB/FGsaZdaXbW9sbXTbS5j/elXIZ5XAzsJwFC+mfagDtW+8n+9/Q06oWnTcnEnX/nm3ofaneenpJ/37b/CgB0n+qf/AHTTqhknQxtxJ0P/ACzb/CneenpJ/wB+2/woAkpsf3T/ALx/nTfPT0k/79t/hTUnQKeJOp/5Zt6/SgCamr95/wDe/oKb56ekn/ftv8Kas6bn4k6/8829B7UATVG3/H0n+4381o89PST/AL9t/hUZmX7Shw/3G/5Zt6j2oAsU1vvJ/vf0NN89PST/AL9t/hTWnTcnEnX/AJ5t6H2oAmpsn+qf/dNN89PST/v23+FNknQxtxJ0P/LNv8KAJqKj89PST/v23+FHnp6Sf9+2/wAKAHR/dP8AvH+dOqFJ0CniTqf+Wbev0p3np6Sf9+2/woA5D4d/6/xd/wBjJc/+gRV2defXF7d+BvF2oXo0+8vvD+ryC4uJbeJ5JLK42hSSndGAU5HPHsKur8W/BhUE6nOpI6HT7jj/AMh0AdpRXGf8Lb8F/wDQVm/8F9z/APG6P+FteDTwmpXDt2VdOucsfQfu6ADxl/yO3gn/AK/5v/RDV2dcHYS3XjHxhp2vzWN5p+j6Usn2OK7gKS3UrqVMu3nCBfu55Oc13Hnp6Sf9+2/woAdJ/qn/AN006oZJ0MbcSdD/AMs2/wAKd56ekn/ftv8ACgCSmx/dP+8f503z09JP+/bf4U1J0CniTqf+Wbev0oAmpq/ef/e/oKb56ekn/ftv8Kas6bn4k6/8829B7UATUVH56ekn/ftv8KPPT0k/79t/hQBJTV+8/wDvf0FHmJ/fX86asibn+Zevr7CgCSo2/wCPpP8Acb+a07zE/vr+dRtIn2pPmX7jd/daAJqbJ90f7w/nR5if31/OmvIhUYZeo7+9AElNk/1T/wC6aPMT++v502SRDG2GXoe9AElFN8xP76/nR5if31/OgAj+6f8AeP8AOnVGkiBTll6nv707zE/vr+dAAv3n/wB7+gp1RrIm5/mXr6+wp3mJ/fX86AGt/wAfSf7jfzWpKhaRPtSfMv3G7+61J5if31/OgAk+6P8AeH86dUbyIVGGXqO/vTvMT++v50AEn+qf/dNOqOSRDG2GXoe9O8xP76/nQA6mx/dP+8f50eYn99fzpqSIFOWXqe/vQBJTV+8/+9/QUeYn99fzpqyJuf5l6+vsKAJKjb/j6T/cb+a07zE/vr+dRtIn2pPmX7jd/daAJqa33k/3v6GjzE/vr+dNaRNyfMvX19jQBJTZP9U/+6aPMT++v502SRDG2GXoe9AElFN8xP76/nR5if31/OgAj+6f94/zp1RpIgU5Zep7+9O8xP76/nQAL95/97+gp1RrIm5/mXr6+wp3mJ/fX86AGt/x9J/uN/NakqFpE+1J8y/cbv7rUnmJ/fX86ABvvJ/vf0NOqNpE3J8y9fX2NO8xP76/nQASf6p/9006o5JEMbYZeh707zE/vr+dADqbH90/7x/nR5if31/OmpIgU5Zep7+9AElNX7z/AO9/QUeYn99fzpqyJuf5l6+vsKAJKjb/AI+k/wBxv5rTvMT++v51G0ifak+ZfuN391oAmprfeT/e/oaPMT++v501pE3J8y9fX2NAElNk/wBU/wDumjzE/vr+dNkkQxthl6HvQBJRTfMT++v50eYn99fzoAI/un/eP86dUaSIFOWXqe/vTvMT++v50AC/ef8A3v6CnVGsibn+Zevr7CneYn99fzoAa3/H0n+4381qSoWkT7UnzL9xu/utSeYn99fzoAG+8n+9/Q06o2kTcnzL19fY07zE/vr+dABJ/qn/AN006o5JEMbYZeh707zE/vr+dADqbH90/wC8f50eYn99fzpqSIFOWXqe/vQBJTV+8/8Avf0FHmJ/fX86asibn+Zevr7CgCSim+Yn99fzo8xP76/nQA6mr95/97+gp1NX7z/739BQA6o2/wCPpP8Acb+a1JUbf8fSf7jfzWgCSmyfdH+8P506myfdH+8P50AOpsn+qf8A3TTqbJ/qn/3TQA6iiigBsf3T/vH+dOpsf3T/ALx/nTqAGr95/wDe/oKdTV+8/wDvf0FOoAjb/j6T/cb+a1JUbf8AH0n+4381qSgBsn3R/vD+dOpsn3R/vD+dOoAbJ/qn/wB006myf6p/9006gApsf3T/ALx/nTqbH90/7x/nQA6mr95/97+gp1NX7z/739BQA6o2/wCPpP8Acb+a1JUbf8fSf7jfzWgCSmt95P8Ae/oadTW+8n+9/Q0AOpsn+qf/AHTTqbJ/qn/3TQA6iiigBsf3T/vH+dOpsf3T/vH+dOoAav3n/wB7+gp1NX7z/wC9/QU6gCNv+PpP9xv5rUlRt/x9J/uN/NakoAa33k/3v6GnU1vvJ/vf0NOoAbJ/qn/3TTqbJ/qn/wB006gApsf3T/vH+dOpsf3T/vH+dADqav3n/wB7+gp1NX7z/wC9/QUAOqNv+PpP9xv5rUlRt/x9J/uN/NaAJKa33k/3v6GnU1vvJ/vf0NADqbJ/qn/3TTqbJ/qn/wB00AOooooAbH90/wC8f506mx/dP+8f506gBq/ef/e/oKdTV+8/+9/QU6gCNv8Aj6T/AHG/mtSVG3/H0n+4381qSgBrfeT/AHv6GnU1vvJ/vf0NOoAbJ/qn/wB006myf6p/9006gApsf3T/ALx/nTqbH90/7x/nQA6mr95/97+gp1NX7z/739BQA6iiigBvlj1b/vo01UG5+W6/3j6CpKav3n/3v6CgA8serf8AfRqNkH2pOW+438R9Vqao2/4+k/3G/mtADvLHq3/fRproAo5bqP4j61JTZPuj/eH86ADyx6t/30abIgEbct0P8RqSmyf6p/8AdNAB5Y9W/wC+jR5Y9W/76NOooAjRAVPLdT/EfWneWPVv++jRH90/7x/nTqAI1Qbn5br/AHj6CneWPVv++jQv3n/3v6CnUAQsg+1Jy33G/iPqtSeWPVv++jTW/wCPpP8Acb+a1JQBG6AKOW6j+I+tO8serf8AfRok+6P94fzp1AEciARty3Q/xGneWPVv++jRJ/qn/wB006gBvlj1b/vo01EBU8t1P8R9akpsf3T/ALx/nQAeWPVv++jTVQbn5br/AHj6CpKav3n/AN7+goAPLHq3/fRqNkH2pOW+438R9Vqao2/4+k/3G/mtADvLHq3/AH0aayDcnLdf7x9DUlNb7yf739DQAeWPVv8Avo02RAI25bof4jUlNk/1T/7poAPLHq3/AH0aPLHq3/fRp1FAEaICp5bqf4j607yx6t/30aI/un/eP86dQBGqDc/Ldf7x9BTvLHq3/fRoX7z/AO9/QU6gCFkH2pOW+438R9VqTyx6t/30aa3/AB9J/uN/NakoAjZBuTluv94+hp3lj1b/AL6NDfeT/e/oadQBHIgEbct0P8Rp3lj1b/vo0Sf6p/8AdNOoAb5Y9W/76NNRAVPLdT/EfWpKbH90/wC8f50AHlj1b/vo01UG5+W6/wB4+gqSmr95/wDe/oKADyx6t/30ajZB9qTlvuN/EfVamqNv+PpP9xv5rQA7yx6t/wB9Gmsg3Jy3X+8fQ1JTW+8n+9/Q0AHlj1b/AL6NNkQCNuW6H+I1JTZP9U/+6aADyx6t/wB9Gjyx6t/30adRQBGiAqeW6n+I+tO8serf99GiP7p/3j/OnUARqg3Py3X+8fQU7yx6t/30aF+8/wDvf0FOoAhZB9qTlvuN/EfVak8serf99Gmt/wAfSf7jfzWpKAI2Qbk5br/ePoad5Y9W/wC+jQ33k/3v6GnUARyIBG3LdD/Ead5Y9W/76NEn+qf/AHTTqAG+WPVv++jTUQFTy3U/xH1qSmx/dP8AvH+dAB5Y9W/76NNVBufluv8AePoKkpq/ef8A3v6CgA8serf99Gjyx6t/30adRQB//9k=)

Figure 8‑12: Sequence diagram of admin logging in checking cameras then editing settings

## Core Code

### Transferring image

Turntobase64(image){

Return(Image.convertToBase64())

}

while true:

image = camera.getimage()  
imagestring = turntobase64(image)  
httppost(cameraID,imagestring)

### Face detection

facesDetected = 0  
Image.tograyscale()  
faceDetections = image.checkXmlFileDetection(xmlFilePath)   
for detection in face detections  
 facesDetected = facedetected + 1  
 detection.DrawRectangle()

### Movement Detection

The main TCP methods used in this project will be MQTT and HTTP, MQTT is great for IOT devices and the subscribe and publish methods work perfectly when you have a lot of data from many sources, and http is the staple of communication across the internet. This will be used in the web controller. For security Https will be available but not required and the MQTT will have their own passwords to connect to the data streams.

# Results

* Screenshots to demonstrate your use-case scenarios
* Automated or Manual Testing, Requirements Traceability Matrix

## Use Case Scenarios

## Testing System Tests

For the System test there will be another python file that will pretend to act as multiple cameras that will have videos to run a variety of scenarios, there will then be a selenium script that will create the cameras test that the scenarios are as expected and then delete the cameras used.

### Unit tests

Unit tests will test all page views and APIs to check they are functioning correctly as well as ensuring the objects of the system have correct validators and functions in place. They will be written in the PyTest library as they offer many advantages.

# Conclusion and next steps

* Include critical reflection on the project content and process - e.g., Gibbs'

## Summary

## Thoughts

I feel like the project went quite well, the scope of the project did change away from cam cams instead focusing on the abilities of the pi cameras and the security side of things. The project did have quite a large risk of overextending itself focusing more on different abilities of the cameras instead of a simple but clean design, but I feel like the resulting project ended on a reasonable balance.

## Evaluation

### Methodology

I feel like the methodology create would have been effective in a team setting but I feel like it was brought short when it is implemented with a single developer. This is since there are many tickets can be overlooked or ignored that put the projects timeline out of focus and meant that the results of each scrum varied too much in progress. To solve this, it would be worth upping the Scrum time from two weeks too four as then you would have more General results and instead of focusing in too much on the tickets applying bigger more general tickets would have worked as the smaller tickets were overkill for a single person development team.

### Project

The project did end quite well with the resulting program looking smooth having nice settings and views that complimented the design of the program. The errors that can occur are minimal and the cameras work with all the functionality they were expected to have, one could argue that some parts such as the pi cams FPS performance could be increased, but this is one of the main limitations of python and I am willing to accept the performance given.

## Conclusion

## Next steps

# References

Cockburn Alister (2000) *Writing Effective Use Cases*

Dickson Ben (2020) *Ring Hacks: Why the Device Is So Easy to Break Into*January 11, 2020 [online]. Available from: https://www.dailydot.com/debug/ring-hacks/ [Accessed 26 March 2022].

Graff Mark and van wyk Kenneth (2003) *Secure Coding Principles & Practises* Russel Deborah (ed.) first edition. O’reially & Associates.

HomeAdvisor (2022) *2022 Cost of Security Camera Installation | CCTV Surveillance System Prices - HomeAdvisor*January 28, 2022 [online]. Available from: https://www.homeadvisor.com/cost/safety-and-security/install-a-surveillance-camera/ [Accessed 26 March 2022].

Lee, J. et al. (2019) Design of a Symmetry Protocol for the Efficient Operation of IP Cameras in the IoT Environment. *Symmetry 2019, Vol. 11, Page 361*. [online]. 11 (3), Multidisciplinary Digital Publishing Institute, p.361. Available from: https://www.mdpi.com/2073-8994/11/3/361/htm [Accessed 26 March 2022].

Ring (no date) *About - New – Ring* [online]. Available from: https://en-uk.ring.com/pages/about [Accessed 26 March 2022].

Ring (2020) *Ring’s Stance on Facial Recognition Technology – The Ring Blog*August 20, 2020 [online]. Available from: https://blog.ring.com/about-ring/rings-stance-on-facial-recognition-technology/ [Accessed 26 March 2022].

Unterfingher Vladimir (2019) *Home Security Cameras: Safety and Privacy Issues Explained*December 6, 2019 [online]. Available from: https://heimdalsecurity.com/blog/home-security-cameras-safety/ [Accessed 26 March 2022].

Wright Jack (2021) *Could EVERY Ring doorbell customer face £100,000 fine after landmark ruling? | Daily Mail Online*November 13, 2021 [online]. Available from: https://www.dailymail.co.uk/news/article-10087671/EVERY-Ring-doorbell-customer-face-100-000-fine-landmark-ruling.html [Accessed 26 March 2022].

# Appendices

* questionnaire consent form
* participant information sheet
* questionnaire questions
* do **not** include personal data