Plataformas cloud para IoT Thingspeak & IFttt

****

|  |  |
| --- | --- |
| **Curso(s):** | Mestrado em Computação Móvel |
| **Unidade(s) Curricular(es):** | Seminário II |
| **Ano Letivo:** | 2021/2022 |
| **Docente:** | Carlos carreto |
| **Aluno:** | Vagner Bom Jesus – Nº 1701172 |

Índice

[Índice de figuras 2](#_Toc103936426)

[1 Introdução 3](#_Toc103936427)

[2 Visão geral 4](#_Toc103936428)

[2.1 Resumo sobre ThingSpeak 4](#_Toc103936429)

[3 Resumo sobre IFTT 8](#_Toc103936430)

[3.1 Arquitetura do Flutter 10](#_Toc103936431)

[3.2 Os Componentes do Flutter 11](#_Toc103936432)

[3.3 Anatomia de uma aplicação em Flutter 12](#_Toc103936433)

[3.4 Que recursos existem (documentação, tutoriais, exemplos)? 13](#_Toc103936434)

[4 Exemplos de Aplicações 14](#_Toc103936435)

[5 Comparação entre Framework Multiplataformas 17](#_Toc103936436)

[6 Exemplo prático 18](#_Toc103936437)

[6.1 Configurando o ambiente de desenvolvimento 18](#_Toc103936438)

[6.2 Instalação 18](#_Toc103936439)

[6.3 Instalação do Android Studio 19](#_Toc103936440)

[6.4 Instalação do Flutter 19](#_Toc103936441)

[6.5 Configurando plugin do Flutter 20](#_Toc103936442)

[6.6 Implementação 21](#_Toc103936443)

[6.7 Criação do projeto 21](#_Toc103936444)

[6.8 Configurações 22](#_Toc103936445)

[6.8.1 Adicionar dependências da WebView 22](#_Toc103936446)

[7 Conclusões 30](#_Toc103936447)

[8 Referências 31](#_Toc103936448)

Índice de figuras

[Figura 1 - Home do ThingSpeak [2] 5](#_Toc103936408)

[Figura 2 - Arquitetura do ThingSpeak [3] 6](#_Toc103936409)

[Figura 3 - Home IFTTT [3] 8](#_Toc103936410)

[Figura 4 - Arquitetura do Flutter [5] 10](#_Toc103936411)

[Figura 5 - Hierarquia de Widgets [5] 11](#_Toc103936412)

[Figura 6 - Estrutura de um projeto em Flutter 12](#_Toc103936413)

[Figura 7 - Empresas e organizações que trabalham com a Flutter 15](#_Toc103936414)

[Figura 8 - https://www.youtube.com/embed/1y6Rpol6MMA?feature=oembed 16](#_Toc103936415)

[Figura 9 - Framewroks Multiplataformas mais populares, fonte: [6] 17](#_Toc103936416)

[Figura 10 - App Ipg para Android com java [6] 21](#_Toc103936417)

[Figura 11 – Configuração 24](#_Toc103936418)

[Figura 12 - Aplicação final 29](#_Toc103936419)

# Introdução

O presente documento descreve o projeto de investigação para apresentação do Workshop do curso de Mestrado em Computação Móvel do Instituto Politécnico da Guarda da unidade curricular de Seminário II ministrado pelo aluno Vagner Monteiro Vaz D’ Almeida Bom Jesus de nº 1701172, no ano letivo 2021/2022 com o tema Plataformas Cloud para Iot Thingspeak e Ifttt.

Com o desenvolvimento esporádico das tecnologias as plataformas cloud e IoT Internet das coisas (em inglês: Internet of Things), se tornou uma das tecnologias mais importantes do século XXI, podendo conectar objetos do dia a dia – eletrodomésticos, carros, termostatos, babás eletrônicas – à internet por meio de dispositivos incorporados, é possível uma comunicação perfeita entre pessoas, processos e coisas por meio de computação de baixo custo.

# Visão geral

Embora a ideia de IoT exista há muito tempo, uma coleção de avanços recentes em várias tecnologias diferentes a tornou prática [1].

* **Acesso à tecnologia de sensores de baixo custo e baixo consumo de energia**. Sensores acessíveis e confiáveis ​​estão tornando a tecnologia IoT possível para mais fabricantes.
* **Conectividade**. Uma série de protocolos de rede para a Internet facilitou a conexão de sensores à nuvem e a outras “coisas” para uma transferência de dados eficiente.
* **Plataformas de computação em nuvem**. O aumento na disponibilidade de plataformas de nuvem permite que empresas e consumidores posam aceder a infraestrutura de que precisam para expandir sem precisar gerenciar tudo.
* **Aprendizado de máquina e análise**. Com os avanços em machine learning e analytics, juntamente com o acesso a grandes e variadas quantidades de dados armazenados na nuvem, as empresas podem coletar insights com mais rapidez e facilidade. O surgimento dessas tecnologias aliadas continua a expandir os limites da IoT e os dados produzidos pela IoT também alimentam essas tecnologias.
* **Inteligência artificial conversacional (IA).** Os avanços nas redes neurais trouxeram o processamento de linguagem natural (NLP) para dispositivos IoT (como assistentes pessoais digitais Alexa, Cortana e Siri) e os tornaram atraentes, acessíveis e viáveis para uso doméstico.

## Resumo sobre ThingSpeak

**ThingSpeak** é uma plataforma de análise de IoT que permite agregar, visualizar e analisar fluxos de dados ao vivo na nuvem. Você pode enviar dados para o ThingSpeak de seus dispositivos, criar visualizações instantâneas de dados ao vivo e enviar alertas usando serviços da web como Twitter e Twilio. Com a análise MATLAB dentro do ThingSpeak, você pode escrever e executar código MATLAB para realizar pré-processamento, visualizações e análises. O ThingSpeak permite que engenheiros e cientistas criem protótipos e construam sistemas IoT sem configurar servidores ou desenvolver software da web.

Uma imagem com texto, pessoa, captura de ecrã, eletrónica

Descrição gerada automaticamente

Figura 1 - Home do ThingSpeak [2]

### **Arquitetura do ThingSpeak**

Pode usar qualquer dispositivo conectado à Internet com o ThingSpeak. Ao enviar dados de seus dispositivos ou equipamentos, você pode usar bibliotecas nativas para plataformas comuns de prototipagem de hardware embarcado como Arduino, Espressif, ESP8266 e ESP32, Particle e Raspberry Pi.

Também pode enviar dados para o ThingSpeak de máquinas ou gateways locais usando uma API REST ou uma API MQTT.

Além disso, os seguintes fornecedores criaram integrações com o ThingSpeak para facilitar ainda mais a configuração:

* LoRaWAN
* Things Network
* Senet
* Libelium
* Beckhoff
* Particle devices

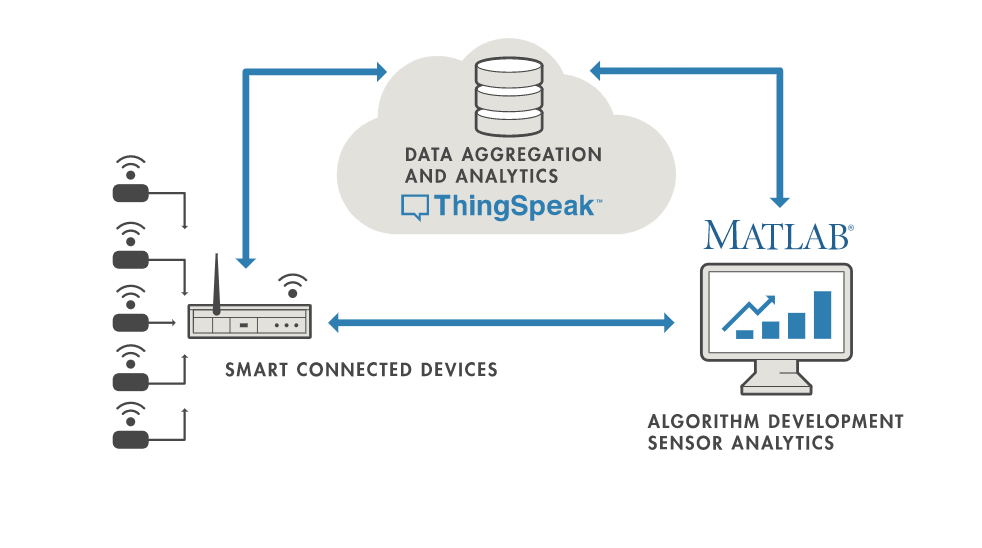


Figura 2 - Arquitetura do ThingSpeak [3]

### **Principais componentes do ThingSpeak**

O ThingSpeak permite agregar, visualizar e analisar fluxos de dados ao vivo na nuvem. Alguns dos principais recursos do ThingSpeak incluem a capacidade de:

* Configure facilmente os dispositivos para enviar dados ao ThingSpeak usando protocolos populares de IoT.
* Visualize os dados do seu sensor em tempo real.
* Agregue dados sob demanda de fontes de terceiros.
* Use o poder do MATLAB para entender seus dados de IoT.
* Execute suas análises de IoT automaticamente com base em agendamentos ou eventos.
* Protótipo e construir sistemas IoT sem configurar servidores ou desenvolver software web.
* Agir automaticamente em seus dados e comunique-se usando serviços de terceiros como Twilio ou Twitter.

### **Como se usa**

O ThingSpeak está disponível como um serviço gratuito para pequenos projetos não comerciais (<3 milhões de mensagens/ano ou ~8200 mensagens/dia). Para projetos maiores ou aplicativos comerciais, quatro tipos diferentes de licença anual são oferecidos: Standard, Academic, Student e Home. O ThingSpeak é comprado em unidades, onde uma unidade permite que 33 milhões de mensagens sejam processadas e armazenadas em um período de um ano (~90.000 mensagens/dia). Uma unidade também oferece a capacidade de criar um número fixo de canais no ThingSpeak. Escolha seu tipo de licença abaixo para saber mais [4].

### **Os recursos existentes para apreender a usar o ThingSpeak:**

* Mathworks [4]
* MatLab [6]
* Thingspeak [2]
* Blog [7]
* ThingSpeak Community [8]
* Projetos de código aberto e comunitários [9]

## Resumo sobre IFTT

**IFTTT** é a abreviação de If This Then That e é a melhor maneira de integrar aplicativos, dispositivos e serviços, ajuda os dispositivos, serviços e aplicativos a trabalharem juntos de maneiras novas e poderosas. O IFTTT foi fundado na crença de que tudo funciona melhor em conjunto, a incompatibilidade tecnológica tornou-se um desafio para quem tenta construir uma casa inteligente ou criar rotinas automáticas em sua vida e o IFTTT facilita, permitindo que faça mais com mais de 700 aplicativos e serviços diferentes, incluindo Twitter, Dropbox, Evernote, Fitbit , Amazon Alexa e Google Assistant.

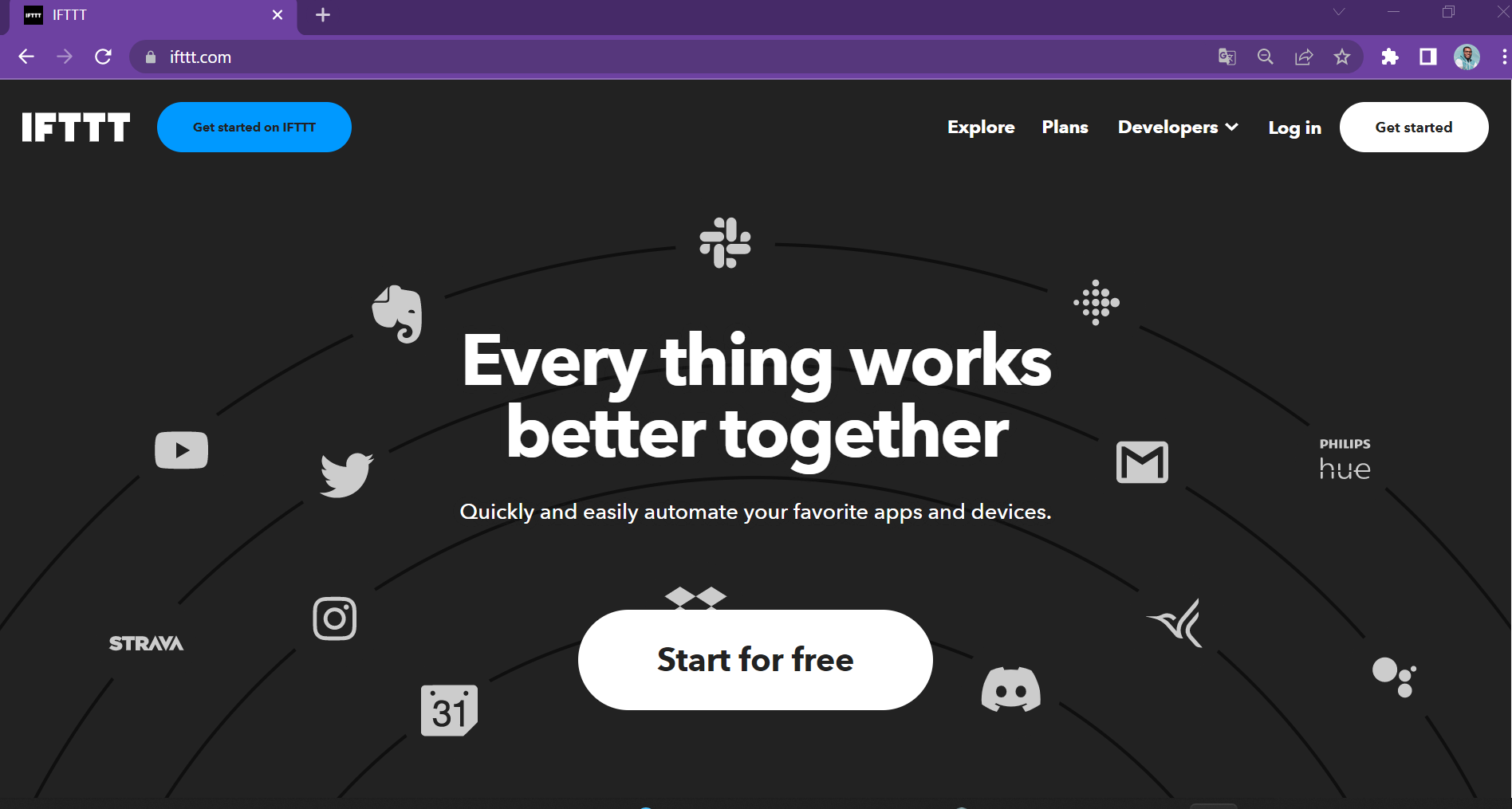


Figura 3 - Home IFTTT [3]

### **Arquitetura do IFTTT**

O IFTTT Agent também permite combinar outros dispositivos para criar novos applets do NAS, fornecendo uma maneira nova para tarefas inovadoras e inteligentes no seu NAS. Podendo usar comandos de voz em seu NAS, conectando-o ao Alexa para fazer seu NAS desligar, reiniciar ou entrar no modo de sono, ou tocar música usando o Music Station. Também pode usar o QNAP Surveillance Station com IFTTT Agente para criar vários cenários de vigilância (incluindo quando você sair de casa, se alguém está na porta, se o movimento for detetado) para abrir a estação de vigilância e automaticamente salvar vídeos gravados no NAS.

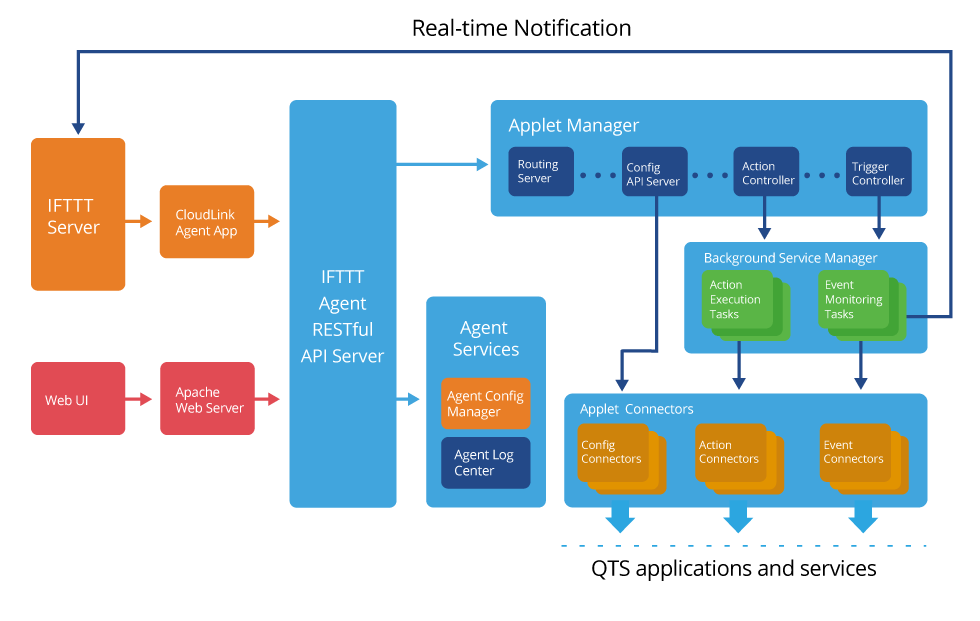


Figura 4 - Arquitetura do IFTTT

### **Como se usa**

Para os usuários, o IFTTT vem em três versões:

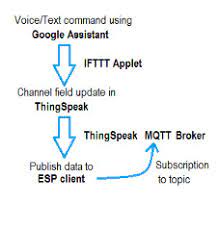
* **Free** - No plano Gratuito, você pode habilitar até cinco Applets. Crie você mesmo ou escolha entre os milhões de Applets publicados que já foram feitos. O plano Gratuito não possui taxas de assinatura.
* **Pro** - O plano Pro tem vantagens extras.
  + Você pode criar e habilitar até 20 Applets
  + Execute várias ações com o mesmo Applet
  + Applets de usuários profissionais rodam mais rápido.
* **Pro+** - O Pro+ desbloqueia nossas melhores e mais poderosas ferramentas.
  + Crie e ative Applets ilimitados
  + Adicione lógica aos seus Applets com consultas e código de filtro
  + Conecte várias contas por serviço

### **Os recursos existentes para apreender a usar o IFTTT:**

1. **IFTTT** [11]

# Exemplos de Aplicações

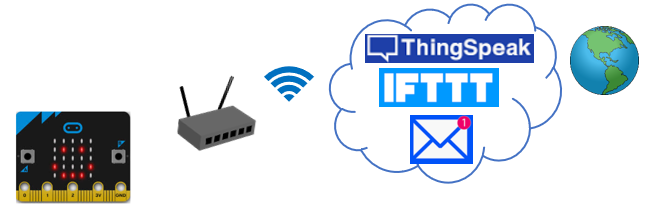
1. Automação residencial operada por voz ESP32 com ThingSpeak MQTT, IFTTT e Google Assistant **-** neste projeto, o objetivo é construir uma automação residencial baseada em voz para controlar eletrodomésticos [12].



1. Fazer solicitações HTTP POST com ESP32 e Arduino IDE para APIs comumente usadas, como ThingSpeak e IFTTT



1. Smarthon Smart City IoT Starter foi projetado para introduzir a Internet das Coisas (IoT) podendo projetar recursos da cidade; por exemplo: usar sensores para detectar o status do tráfego e enviar informações da cidade para a internet [13].



# Plataformas Semelhantes

1. **Beebotte** - é uma plataforma que fornece os principais blocos de construção para alimentar sua Internet das Coisas e aplicativos conectados em tempo real, rica e fácil de usar permite que você acelere o desenvolvimento de seu aplicativo conectado e reduza o custo total e o tempo de lançamento no mercado [14].

Uma imagem com texto, ClipArt

Descrição gerada automaticamente

Figura 5 - Beebotte - Cloud Platform for Real Time Connected Objects

1. **A Amazon Web Services (AWS)** oferece soluções confiáveis com base na nuvem para ajudá-lo a cumprir requisitos empresariais**.** Todos esses serviços funcionam de forma semelhante – É necessário chamar a API deste serviço, com o Dados que deseja armazenar em linha. Isso será feito pelo quadro Arduino nas receitas neste Capítulo, onde enviaremos dados de sensores a esses serviços. Então, poderemos usar esses dados de outros serviços, por exemplo, para expor os dados Graficamente dentro dos painéis online.

![Uma imagem com texto

Descrição gerada com confiança muito alta](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAIAAAIVodpAAQAAAABAAAIXpydAAEAAAAQAAAQ1uocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJlaWdhZG8AAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzcxAACSkgACAAAAAzcxAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDE3OjA2OjA3IDE3OjA5OjUzADIwMTc6MDY6MDcgMTc6MDk6NTMAAABSAGUAaQBnAGEAZABvAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMDYtMDdUMTc6MDk6NTMuNzA2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPlJlaWdhZG88L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwACAQECAQECAgICAgICAgMFAwMDAwMGBAQDBQcGBwcHBgcHCAkLCQgICggHBwoNCgoLDAwMDAcJDg8NDA4LDAwM/9sAQwECAgIDAwMGAwMGDAgHCAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwM/8AAEQgBoQOaAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+D6KKKACiiigAor2P4Q/siSeOJ7RvFXirR/h5a3yrJbtrUE0Ml0jAMrxGRUhkVgcjEufaqHxc/ZcuPAP2y58P+INL8eaTp4Z7m90WGeaO0RerTOEMKD6Ssea8KPE2WyxX1NVPf8A8MuXt8duX/yY9OWT4xUfrDh7vqr/APgN+b8DyuivcvhZ+xWPE12YfGXjbQfhzc7WIstagmt7w49FmEUbKeuUkbiuR+LP7Ot98OILm+03VLHxfoFqQJdX0mC4ezgywVQ8rRiLczEABXalQ4my2tifqlOpeen2ZKLvtaTXK79LN3Cpk+Mp0fbzh7vqr6b3je6t1ujzuiiivePMCiiigAooooAKKKKACvXv+Cfn/J+nwR/7H7Qv/TjBXkNevf8ABPz/AJP0+CP/AGP2hf8ApxgoA/qOooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/kToor7S/Yy/Yij8V/B3QfH9vY+E/E13qvnltL8Qw3CwxGK4li+SSJynzCMEiSB8E8V87xNxNg8jwixeMekpKMV3k02ld6LRPV2SPWybJ8RmVf2GH3Su/JJpXtu91otT4tor76vP2UdP/a6+GVv4xXwv4H+Hun3lq95B/ZEU09+6pu+VtpggXJU8mKQ49DWX8Cf2NbX4c/BTS/iNHo3g3xstzoya3cWOvQzxSQL5IldInVpIW6HG+DOcZbFfKPxTyuNCXtItVoy5HTun77vaPOnydHreyse5/qTjXUXI06bXMpWfw6a8vxdVpY928RtBqX/AATmu2Uw3Ea/D5iCMMoZdP8A5hh+BFH7SrW+mfsEa4mYbeM+G440XhFJMaYAHqfSvJPiL+z7qnir9n7xB4601PD/AMN9NvPDlxqzaX4be6Y6jC1q0ghuPnit8MpAbEBPo1cN+y98HPg98ZvgXqXxI/aK+N3iBf7Pvk0rSfCOhahDc6/IoCgSiGUSFYeSAFjAAjJ3DIB/L+E+Baeb1VWw+KSVGu6k48t2pe6+S6k4v4bcyk15dD7PPOJp4CHs6tHWpS5Yu+jWq5tVdb7NL16n1J+2iLfVf2VdakHk3ELNYPG3Dqc3kHIPuCeR2Nc7/wAFN5YbP9jbxBDuji3z2SRJkLuxcxHCj2AJwOwrn/ix/wAEutP+DX7YHwX+G/hf4leN5vhJ8eInuoRJIsd5biFUn+ZNoiY/NAysYlIJYFeMn0bxL/wRX+Ffx21n4oaDbftCeKtc+Kfw7mE2pSaunnWOj2sm6SFZy0YMjeSh3vDLtRsgoMAH6XJ/ByvgsThZyxSlChWdVe67yv7O0bXsvgd3d77Hj5h4gU8TRrRVFqVWmob6L47u9tfiWllsfkfRX3d+3B/wTF+E/wAMv2KvCnxq+C/xI1rxn4f1XV00W7l1iFbeOZ2aWNpYwYonhCSwlSkgbIbcGwPm9M+C3/BKL9lb4ofELSfhRY/G7xV4w+KWraM2onVfC5tLrw3byqjO0e5Y3JICsdpmBIAyUYha/eD8yPzFor6+/ZV/Yu+DPiL9oPxn8Kvi5428baV430fxU3hbRLbwzpZuk1aWOeWCRj+6k2/vEXGSoCkknAJHsPx9/wCCJvg3T/27vAHwP+G3jzWdQ1TVtPuNY8WXGqJDOfD1kmwxOFiVAXkG8BGOctESVVs0AfnBRX6DfHX/AIJT/CPxV+z18UPF3wD+IHizxRq/wUupYPFOna7bRBLlIQxmmtnjjjwqrHK4zvDCJhkcE+jeDv8Agij8BdJ0X4I33jz4s+LNDuPjJpFr/ZulwxRfaL/VJ4IJfLhkEDrHCnm7T5gOWkjG8H7wB+WdFeuft3fswf8ADGX7WnjT4ajUm1eHw1cxC3vGjCPNBNBFcRFgOAwjmQNjjIOOK8joAK9e/wCCfn/J+nwR/wCx+0L/ANOMFeQ169/wT8/5P0+CP/Y/aF/6cYKAP6jqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP5E6+4v2F/8AgoT4G+E3wZ0PwT4nTVNLm0ppx/aAg8+1kElxJKMhMyKR5mPukcZz2r4dor5virhXA8QYJYHH35VJSTi7NSSaT2a2b0aaPYyTPMTlWI+s4W12rO6umrp26dUtmfo/+yx+0Xa6z+zPovhLwnoOu+LvEFnpr2t2lpEtvaWTsXwJbiZkTowPybzz0q7d/GRvgD+ywvgvx74e1vw1dWfh19Gt9RCJe6deyi3MabZYWYoWbHEirjI5q5+zl8EvCfjr9i/wnqOqaBp0+qW+iySRX6R+TeRMDJgrOm2QdB0apPhr8H/DL/saL4qn0WzvvE2qeDnu7nVb0G7vJJXtCzMJZSzLknOFIHtX8wY+tlCxtdOnLl+s2kvtOfNOzU+flUfi0dJtXS1ep+zYWnj3h6TUlf2On8vLaN048t29tedLS+mx5X8Rf+Ch3gWx/ZQh8DaYuqazrN74UTRppIoPJtrSVrQQtuZ8M21ifuqQcde9fQH/AATK02yi/wCCU2rXHwV8XfDnwR8eLjV5F17WvEE9vDdWNqLjgK8qOY4/s2wqdpTcZcYfJH5L19ofst/8EstO/ak+FPhnxVpfiDUrS11jwvrT3HmeWVi8R2t5HbWdgp2/cuPtVo4U/OQZMHgY/p3hrhPA5HTqQwV/3kuaTk7tv7kl8kfjOcZ5icylCWIt7isklay/Fn3v+0n8bfAPxE/bG/Yr8Rab8VfCPittCu9StNRuor1N9xm2SNrx/wCGNGmt5F+crlmG3cAxHGfs7fFDwzZftt/t4XU3iLQ4bXVtJZbGZ7+JY7wiC4BEbFsPyQPlz1r5d8Of8EnfCui+AbXxB4o1rxJPtfSdH1DT7DUNL0+aw1K506HUbpjJeuiNFbwXdqnlLukeQyfMgXNbuv8A7FXwhh8HfBX4Y+INc1CbxL4m8ZeIvCej+KPC1taPa3zfb4IbW7u2OWnj3SQqsaOCivL8/wAoDfTHjm/onjDwXe/8EFfhhoPiLWtPW2X4jxNrFnFdL9siszqFyZn8tTvH7okg47ivu9PiDYfBb9qzwBqGh/Fr4R+C/wBmsaKmn6X4c0y7tIn1nVJ98UeAiZMYDRvvEgUeWMjlmr8pv2Vv+CcHh/41fDjWrnUNQ8Wa94q0vxFeaFe6T4RaxuLvQooI0K30lpPIs95HJIzqEtwDiJvmLYWtXwn/AMEs/D7fBfw3d+I/E95ovirxh4XuPE9peXGpaZZ6TpIAma1tLmCaZbuR5hDgyRrtjaZBh9rkAH1b+xb4j/Z3/Z6/bj/aI+NHjb4peC5tWl8bala+F5RP9oWKK6Y3U9xDEoMkhBn+zmRF2jy5QrEPmsP9n74nfCn9kD/gpx4f+Kh+P+jfFPR/jba6tpWsarPGlrP4cuTJaSxNcrvJjhdgkaFkjVFU8bUJHzPef8E+fhfL8btP+E+l+KvGmpfEXWfBD+ILTfb21vp66pJpcWoWlhn5nkDr5oLDZzLCBkq27tvgT/wTgs/HXwKbwTbeJrrTfEfiRvBeo+I1ubC0mi0w6idUuVVC0X2hGisEgkKLKu95WVuNoUA98k8KaD/wSp/ZU/al1DxJ448H6/qHxsmubPwfpulagLq4vIJUuo4ZnTAxgXZaTGVAixuJZQcn9rL4k+HtS8ef8E2Xt9f0W4j0N9LbUWjvomWwwdEyZcN+7+433sfdPoa+T/gt+xJ8I/2oPE9zfeA/GHjD/hHvDOiajq/iHSNWjs7XWEFvLbxWwhuHKWirdNcrgu37nyZd275N3X+Hf+CXHgHWfHOqW9r4o1jxE7aDpur6X4R0rXNF/wCEgeS4nuIbqFp2lNtK1t5CuRF80i3MWAnzUAcD/wAFwfEOn+K/+ConxPv9LvrPUrGf+yvLubWZZoZNuk2SnDKSDhgQcHggivlCuv8Aj98M1+Dfxq8UeFo11pYtC1GW0iGr2BsL4orfKZoCW8tyuCQCRzkEgiuQoAK9e/4J+f8AJ+nwR/7H7Qv/AE4wV5DXr3/BPz/k/T4I/wDY/aF/6cYKAP6jqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACivjj/guP8AETXPhj/wT/1XVvD+ueLvDt7/AMJJoNo954ZvZ7TVPIk1K3SeOB4P3m+SN3T5PX2rmPhT8a9L/Y8/ZY8Y/FzSND/ai8XeHbHWbOz8R2HxR1HVf7Y0TTYf9fqtla6iN7wRpc75PL2eZ5D/AD/uKAPu6ivkNf8AgpPrnjj9mrUvit4J+Fdz4k8L/wDCTyaTol5qXiix0C31PS0Dh9cea98tILTzIyiJ+8kfKPs5rznwR/wXJtfiJ+yzovxC8P8Awp8Ra9r2s/Ex/he/hjSNbtdQkGpfYZLtJILpP3E8BjRPnjOwB3cF9nzgH6BUV+bXiH/gvH4k8G+EPHGu61+zP8QdP0/4S6//AGH8QLxNdsZrfw+3mRRp5D9b2TE2/ZGmzlPn+cPXo/x9/wCCsXir4U/HT4ueFvCv7P8A4w+IGjfBG3gv/E/iGz1q0tLe3tJNOt78+Wk3zzzpHM/7iP5z5Y/v0Afb1FfnlrP/AAUE8M/B39oz41/G7UL7VdQ+HVl8GvBviXS7aEnzJxfXeoeQkaP8iSXDyQJ/3xXW/Bb/AIK4Xnxk/wCFgeHtP+GL6h8SfBfhy28WWHhzw94xsdeg8Q2s8nk+Wl7bfu45o5fkdJBx98bxQB9wUV4n+3N8QdX8H/sO/ELV9He60bxNeeHJ7TSXSby7iz1G6j8i12Ov8aXE0fT0rzX42f8ABQq+/Z/ufiBY6X8MvF3jjR/g7c6fbeKNaTUoIwI57W0nAg3/AD3V0I7mOR4Bj5Od+ZIUkAPraivlLUf+CjOp+DLT4hXHiz4T+KPD974NtfDWpWWlJqFteajrFrreo3FhaDZH+7huvtFtIjweY+Pk+fmrOo/8FC7n4XeHvGSeOvhz4g0XxZ4Un8PGLw9peoQavc6tBrd89nZfZ3TYHn8+C6R48Y/cHDuDvoA+pKK+U/Gv/BQvxF4G0Hxdq158Jb57H4U2cd/8QpYfEED/APCOJ5H2uWCAbP8ATriCweG6kRNifv0RJJH4rt9a/bQ03TDrVp/Yt5ceINP+IFv8P7TSkmTz7+6kgt7szj+7GljM92+ekEDn0oA91or5U+AP/BS7Rf2g/i14Y0nS9Jhh8N+P/tv/AAjOqpr1reXl59lR5A89kh32sU8KSSQu7uSIwHSN2wex+Pv7Xt98LvF2uaL4X8G3XjK88GaH/wAJJ4muW1JNNstGtD5myPeySGS6kjhndIUT7keXePfHvAPeqK+Of2P/ANpzVvCvhn4f/C2/8J+ItZ1rw/4C0PxH408TXF2qWGlm6tpHneR5P3jzefDJshjD8Z5QR10nwr/bl8O+F/gzc6tqlj4qstO0v4daT8SE/tG//tHUL2DVZLx0sU7yXEckKwhBx/pECJQB9RUV8kz/APBTyzi+KNvoi+GbcWNj4k0jwZr0zeJLWO8sdYv57SDybWy/1l1Bbz3sMc837sDL7BJ5b49L/Zx/ad1D9pXxN4o+yeCtZ0Pw14W1nU/D/wDbeoXUfl6te2Oo3Fo4tIU+d4CkIfzjsGX2DeUcgA9ror5p+Hf7fUfjrxL8U76+8L/2D8O/hLqmp6TrfiO81qBpraTTo988r2KAyRwP85jY/PIgD7Ajoax9W/4KB+JPDVj4im1z4W6l4bOn+BNR+IGnJqWsQLcfYrV4E2XsCf8AHrO/nlwgkk4gkzsk+SgD6uor88/g/wDteR/sCfs+WfhW+8N/25408OeFoPHPxGm1Tx0kl7PPOh8ydHu/nur64FtNP9ljCRx4RPMTzI9/p3i79snxh4Q+N3xu8Rx+H21r4Z/C/wAC6fqf2eDUkjkefyL++nnCeRv8yS1+yJs3/J5fT95QB9fUV5z4a+OWn+MfjxrHgvSbWW/Xw/pFrq+p6rFKht7aS6dxa2vU75Hjjkm4+4nkk/6xK82+IX/BQzQPhvJZ2upaLqEuq3nxMt/hxHZ286Mbd5JoB/aEh/gt0guoZH95ET+MGgD6Por521H9qHTfih8QdA0TSbLXmVvHOo6Fpl7Z6n9kt9Xk0vTZ5ruR9n+stY7tJLF0P/LePf8AwV4JqX7TnxE8Xfsk/CvWNY8Pa5q+ufEn4twz6Lp2i6ij3up6cmo32sWlrv8A3EccEdpZQRvJJ8kkEbu/+sNAH6CUV4/+zT+0hefGv4eeJdW8ReG28Ean4O1y90LVrSXUEvrdHtcb5knVE3wlHDglErhdN/bz1Kb4VTfEvUPhpr1j8N9RsEv/AA1fpqNtJqWuPPPFBp9ubI7Hhkv5JofIG9/9YnnfZzlKAPpqivmPVf2/rv4W6V4pi+Inw91bwzr/AIUGgznTdKvY9a/tS11jUf7Nt3tnRIzJPHcJIjwBM5EewyeYlVbz/goleeCdH8aP43+GniTQNc8K6noFhDoum3sGtXep/wBsXHk2yxeR8n2hPn8yDPHljEjo6SEA+pqK+TtS/wCCk83gfR/Edp408A3XhfxlpfiPT/C2n6O/iC0lttUur6xF9H/p2Ejh8u38x58/c8j5PM3x77fg7/golL8T9L03SfDPg0a98RrrWtS0Z9Cttegewt109IHub7+0NmJLQR3tj86RmTzLyNPL4k2AH1NRXyrq37TXjqP9rvw/Z6x4fbwn4K8N/D+98SeL7a51iGT7A811AkEz+SkgfyI7K+CJG/7z7Ru6x8Zfw7/4KweHfE73N9r3h/8AsXw/ceEbrxvpE9nq8GrahNZQT2kJhu7KH57W7f8AtC08uDfIXLunyOhSgD6+or5Z+G/xJ8dfF39vPQYfFPhC68Daf4U8C6hqK6b/AG6moPO+o3tolvJcpAnlxzxpp94m0PJH+/fZI+Mjuj+0xr/iv4z6p4f8G+A7rxRoPhfV4dG8R642qQWKWd06RvIkEMgzdCCOeJ5PnjxkonmSI6AA9sor5w8B/tyXHj/4ieBxp3gjVH8B/EvV7nSfDviR9QjSTUfs9jd3f237FjelhJHZSbJ3ffJ5kJ8vZIhrgNM/4Kr6l4p8C/D3XtG+EusR2vxc1S10jwe+sa9aabBqjvBPPNPI/wA/kw/uQkGcyXbv8kezZJIAfZ1FYvhTULzXPDGnXWpabJo+pXVtHPdWDzJM9lKyAvDvT5H2E7N6E5xW1QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB/InRRRQB618Jf23PiN8G/Do0XTdaW70NYmhXT7+ETwxq2chTw6jk8KwHtRrP7bnxG1P4Y6d4Pt9aXSdA0/T000QWMIie4iVNnzycuSV6gMAcnivJaK8KXDGUSrPESw1Nzb5m+VayV7SemstXrv5npRzrHqn7JVpcqVrcz2009NFpsFeyfBr9uvx/8BvhBb+CfDt3Z2+jWvjCy8bxF43aZb+0C+WuQ4HlMUiZlxkmJMMBkHxuivdPNPoRP+CkvjTVfE3jO+8SeH/Avjax8beIz4sn0nXtMkubHTtSwVWa2VZVdMRkRbGd1ZEVXDYq14W/4Kg/ELwzZ2HmaT4D1TUND1O+1zRNRvdBRrrQdQvJWlnubXYyojbiu1GRo18qMhAVBr5xooA9s+BP7c/iD4EabpscPhfwH4l1DQdXfXtF1XXNLefUNHvWKEzRzRyRl/mjR9s3mIGXIWr7/APBRLxpqXgiHTdY0XwR4h1yxsLzStO8UappH2jWtMtLppWlhik3iLAM82wvEzR+a2xl4x4JRQB6nrP7X/i7V/wBpbw/8Vl/s2x8VeGzpLWf2aJ1t86dbwW8G5S5JDJbpvG7DFnxgHA7W2/4KffFDTviB428UWc2i2WveOvEul+KLm6itXzYT6cZvs0NurSFRAEmMZSQPlEUZHOfneigD6LH/AAUx8Z2Os2I0vwv8O9F8LW1jqGnXPhKx0d00PVIr9onu/tEbStIzSNBbnKyLs8iMJsC4rN/4b71a61O+W++Hnwn1Lw5d2dpZQ+HZ9AZdP09LUytC0LxyrcrJunmLO07GTzCH3AKB4NRQB13x3+NmvftGfFvW/GviaW3m1rXphLcG3hEMMYVFjREQfdVERFA5OFGSTk1yNFFABXr3/BPz/k/T4I/9j9oX/pxgryGvXv8Agn5/yfp8Ef8AsftC/wDTjBQB/UdRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB4H/wUW/ZO1P9tP8AZoufA+i+JLTwrq0mr6dqtrqdzY/bY7eSyu47pP3O9N/MfrXmfi39jP8AaE+O/wAEPE3gH4lfHHw3qWk+Kr7TrfULjw94UOk3kejo8h1GxR/Pcb7uPyY/MPEaeZ8j76+yKKAPzy+In/BF/wATah8KfDPgfwz8TtHj8L/DPx4/ivwPo3iXw1/b2n6dYyQyAaXdJPN/pUcEjyeRIfnjR/8Ac8vof2ev+CSeu/Bzwz4ftdV+JFj4k1PSfjZ/wt69vI/Dy6at6X0c2D2qQQyeXBmR9+U+RY/k2V92UUAfFXxk/wCCVGofFT9nz9pzwTH40s7GX9oPxOniC3vH015P7ERPsf7t08z99/x69tn36898Wfse/Gv48ftb/tcaXoPjqL4ZfD/4kX2iaZeXF94Me/udXtT4csYLqbTrl50j4HmQE7HEcgJ4ev0XooA+LPij/wAEgfDvxK8N/EDwmviC40vwd4s+HPhrwDpMMdqJLjRhok9xPaXW/Oyb53g+TCf6o/36u/DH9ij46eBvC3iuRfi58NdD8UaloX9laDqHhj4Y2umx2F1vjcX10jySee+E2+R8kfz+tfY1FAHmPx7+C158bfhdovh+41dYGs9e0PWNQn+z5+3pp+pWl88Oz+ATfZth9N9cd4g/Y1m8Q+C/GmmSa9C0njn4i6b421CX7LxJbWl3pj/Yvv8A/LS10xIN/wDt9K9/ooA+Qf2sf2c/GWr/ABNg1DwvNa3mpfELx54bkSS50ie80/QLLRLW71OF70JIh8t762+/5kY33ECD58b+p0n9ifWtU8T6b4o8XeLrXX/Fd14wsfFGvz2+kvZ2UlrZWtxHY6bZQmZ3hjgnmjn3vJI7v55PEgRPpWigD5h+J37EHifx5q/xG0O18baZafDH4tavDq/iPSX0R5NUKfZLS1vbGC688RpBdx2qh/Mgd0+0T7D/AKvy+j0n9imxH7ZXir4palqs2oWOt6VHBZaGYQlvYX0kCWl7el+rySWlrZQJ/wA80jn6+ea97ooA8B/ZJ/Zl8V/s52Oh6Dq3iDwbrHhjwpoq6HpJsvC5sdXnSMxpDPdXRndHk8hNjrHGgd3d+MiNOU/ac/Ye8dfGL/hcVl4N+JOm+DNG+M2kLYau8ugveahazpYvZZgm89FSOSPyd/7vzE8uTy3R3Ekf1TRQB4T4j/ZX1G/8NfHm303XrTS9Q+K1l/ZmlXS2Z2eH4U0eOyhDJv8A3nlz+fNxsykiJ23nP+JX7C+m+Pvjj8I/EaapJZ+HPhnZvaXeiiMSDXzC9vJp3nOf4LSeHzwMcyCP+5X0NRQB88/Dv9lHxP8ADH4v6veWPiTwbN4N1jxPd+KWtbvwr52txPdP509ql75+zy/PLyI/kbwj+X1QSH0P9mT4MSfs/fBDQfCdxqA1i+09Jpb6/WMR/bLmeaSeebZ/tySOfxr0OigD41+If/BOPxl8afHfizxB4y8e+D/7U1jwZdeFLW58PeDW03+0JJJ4J4brU993ObpLf7LGqQb0jIlnxs8ys/8AaJ/ZN+Imr+Efil4i8ReJE8da58UND0z4fLpGi6BJb2eiWN1qht7owp5k8nl+ReeZPJI+D5TyPsjQJH9tUUAfPPjz9k7xNP8AH3xP4u8K+IPB9jaeOIbCPV4dc8MHVbq0ktFePzLSQTxp+8h8tNkkbhHTzP3g/d1n+OvAuofs66x8cvF2rx6h468EfEZ4L3/hGdA8NXeoeIFujptjpX2SN45HR4HS18zmNPLeeR3k2dPpaigDwn/gnp+zXqn7L/7Mfh/RfE142peN9Uij1LxRfO/mPcag8Mcezf8AxpBBDBax/wDTO3jrhfi7/wAE4pPiP8QfjV4qs/F02m618SNPto/D7tZi4Twrexw2Uc19Gn8ckn9l6Xx/04p/fNfWFFAHiPhP9kez8BeOvhndaPqUlrofw18KapoVlZzx+dc3FzdvYYvZJs/PIiWs+/j94927nmuY/Z0/Yz8RfCXwV8D9I8ReJtG1hPgrp1zptqdP0p7T+0z9ijsbaeTfPJ+8EHn+YeQ7z5GzFfStFAHk/wAJv2c4fBHwY8UeENVvm1L/AIS7Wde1LUbmJPI8wapf3V1sX/rnHOkP/bOvOJP2OfiL4j+AFv4D8QfELwref8Iu+iXPhnU7TwpJDOl7pF7BdWtzeobvy5vM+yQJJHF5A/1mx0ymz6fooA+Yf+GG/EHjHxrJ4s8Y+LNN1DxRqniXQdR1A2Glyw2MOl6LPNd2OnwI87uMXc0k7zSOd7yP8gAQVu65+xzea78ab7xVdeII5LfUPiFp/jCS0+ydLWy0MWMFjv3/APP8v2rfj+Py9n8dfQNFAHzD47/Yb1TXPFur+LNN8SaP/wAJc/xB/wCE4sjqmkm80/yRosGjfYZoPMQyJ9lTeHjePZPsfn5w+nq/7MHxCsPEPgzxboPjTwTZfEDQNO1TQ9UmbwjPHoep2l9Pbz/u7NL0SQPA9rBsPnyb08wOcuHj+i6KAPnnxX+yHr/jn4r+MtW1rxZpl74f+I3w6tfA3iG1j0h4bxZLc6mftVpN52yFH/tOfMbxyf6tP3lc+f2MvHfiH4Fap4R17xl4B/tCOy09NJv9I8FSWObuxu4LtLm6/wBKfzvMkto98KeWPvY619TUUAeJ/AD9nzxd4D+NXjbx7428Wad4l1vxpp2l6clvYaV9htNJgspr+RIId7yO0ZN6XzI5ff5nOzy446fhL9nXxp4E+JXi6PT/ABZoLfDzxlrEuu3thPosj6zbTzw+XPDBdLcpGieYkcyO8Dun7xPnyjx+8UUAfI/w2/YH+IXhqx8Dw638TNKv4fhj4SufCvhez03w/wD2fBbu9nHaJqE5aaR3nEcfSPZGn8Cck1s/Gz9izxZ4y/ZR0L4P+F9f+H1n4X07wpD4Xu7bxH4NfWlPkwRwQ3UA+1Rxo8ewOiSJIM19P0UAc78OfCf/AAgHgDQPD7Xl5qraJp8Nh9uvG33F35MaJ5kjZ5d9u8++a6KiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD83f8AiG7+E39/Vv8Awa3f/wAdo/4hu/hN/f1b/wAGt3/8dr9IqKAPzd/4hu/hN/f1b/wa3f8A8do/4hu/hN/f1b/wa3f/AMdr9IqKAPzd/wCIbv4Tf39W/wDBrd//AB2j/iG7+E39/Vv/AAa3f/x2v0iooA/N3/iG7+E39/Vv/Brd/wDx2j/iG7+E39/Vv/Brd/8Ax2v0iooA/N3/AIhu/hN/f1b/AMGt3/8AHaP+Ibv4Tf39W/8ABrd//Ha/SKigD83f+Ibv4Tf39W/8Gt3/APHaP+Ibv4Tf39W/8Gt3/wDHa/SKigD83f8AiG7+E39/Vv8Awa3f/wAdo/4hu/hN/f1b/wAGt3/8dr9IqKAPzd/4hu/hN/f1b/wa3f8A8do/4hu/hN/f1b/wa3f/AMdr9IqKAPzd/wCIbv4Tf39W/wDBrd//AB2uk+DX/BAT4Y/Br4v+FfGGntqf27wrrFprFtu1K5dfMt5kmTIMhBG5BwQQa+/qKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK8S+GP7ZOm/EeLwxcXXg3xv4Y0PxsE/sDWNVhsvsWpGRDJAube5meEyx8p56R7+E++dleyXV3Hp9s80rxwwxpvd3bCItAFmisHwR4xsPiF4M0nXtLna60vWrOC/sp2hePzYZk3o+x/nXKN0cD6VvUAFFFFABRRRQAUVy1r8S9Pu/izfeD4Y7qTUtN0mDV55RF+4iinnnhjTf8A33e2n49ErqaACiiq1/fw6VZTXFxJHDBCm93f7iLQBZory3wp+094b8Q+EfD+u3EOt6LZeJrHRbuxa+06Rd76q+y2tvMTfG8wcoJEjd/LEgd8Id9dpo3iuPX9c1a1FtqFu2i3Uds73Nk8EVxvhSQPC7fLMn7zZvTgOjp2NAG9RRRQAUUUUAFFcjqXxL0/Tvi1png11nfVNV0q61lGRFMMENvPaQfOezu9yuzjny5P7lddQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRXmP/DTOgJ8Bb74h+Rqi6TY/aYns/KT7fLPBcSWptUjD4a4edDCib+ZCBmus8OeL08U3d/b/YNY0+TTZo4JkvbV4kkd4Y5/3b/6uZBv2F43dN6OmcigDoqKKr3d5Dp1o80zxwwwLvdn/gX/ACKALFFcP8I/jRY/GTRtN1TTdN8QWNtqmiadrkLX+nvBH5N6jyJHv/1bTps/eJG7+XvT++K7igAooooAKKK5X4V/Eix+K3hSTV9PW4WzGo3+nRmVVXzGtLue0d05OUdoGdDnlHQ8ZxQB1VFcbf8AxX0m2s/FcluNQ1S48FnZqttYafPd3CT/AGeO6SCNEX99IY5o32R5P7xOldlQAUUUUAFFcZpfxi0fVvEtlo7f2lY6tqDag1taXlhPbyXCWM8cM8w3pjyPMmg2P0kE8ZTOal+EPxKsfjH8PtM8TaZDdQ6fqyO9qblUSR495UP8jfx7d/0NAHXUV578S/2hvD3wu+IvgrwvqM066p44vJLSxSKLekIjjL+ZMf4E8zy4Qf788Y78ehUAFFFFABRRRQAUV5Z44/aKTw/43v8AQ9B8I+MPHeq6MqPqcOhJa+XpYkQOiSTXU8MfmMmx/JR3k2PG+wB0J6v4a/ELS/iz4KsfEGjyzPY3+84liMctu8cjxyQyK/3JI5I3R06o6EYoA6iisG08VQ3fjW70dbbUVmsrSG6Fy1o62kyySSJsSYjY8ieX86D5kEiH+MVn3vxLsbX4v2Hg/F02qX+k3Wsb0jPkQQQz28JDn+/I8/ycdIpP+BgHXUV5loX7QUfjD4hzaPpPhTxXqWlWOo3Gl3PiKJLUaXDdQZ8+Ihp/tR2OpTekBj8wbN9dl4Q8Tw+LvC2n6tHa6hYpfwJOtvqFs9pdQbxnZJC43xuOmw+lAG3RXJeA/ifY/EHWfFVpZw3af8IrrH9jXMk0ZSO4mFrbzuYf76Dz9hP9+N/SrPgbxppnj/RGv9JvP7QshdXVsJ1ieMPJBcSQSj5gMgSROA+NjgZQlCCQDpKKKKACiiigAooooAK4j4963qfh34F+NNQ0W3vr7W7TQ72bT7e0i824muFgfy0RF+85kxwO5rt6KAPkLxOmveP/ANnzwf4G+G/h3xUq/D6wstRe+1nw/d6LHJPpcHmWVrAl8kEk0j3cFr/B5fl797/8s34aP4L2/iHw38U77w38OfEaSf8ACo59Ojvtf8Mz2+oeM9XnFw7vNHNH59xPHJax/wCs/efvf3abHjeT72ooA+Bvit8GdD1rSNQ8J6X8MPEV7psn9i6Z4IQ+Dp7fT/DenTzwG+1L95AiWt3580/mfJ9r/dpJ5fl73r3z9rvT4dW8WeBl8T+HdW8U/DqGa7fWtNsdIn1lJ73y4/sX2i1gjkeeD/X/AH08tJPJd8YSvfa5PSPitoviL4h6t4Xs5b6fVtBVPt/l2FwbO1d0jcQm52CAz+XNFJ5O/wAzZIj7MHNAHxNqX7J+qeJfhl4+m8S+CtcvdY034f2ug+GLC6SS7j066nutWmg8tELxzT2MN7aR74/M8jyJPLfnNfSf7Vnwgh+NXi74T+Hb7SdSvtBg8Uz6vq7wiT7P5EOl30axzunGySSaFNj8SJvSvcqKAPh+3+G/iLSPGLah4T8EapZ/E7wrrfie8udUn0h7O0udIS11KDRNOgupEEE8Hz6Xsgjk2J9nkdxHJ1xbH4azQaprWueEfBfj7RbW18OaDpuua1P4futP1/xWl1rcf9sTH939rnnjtLV/Wf8AeZj/ANZG7/fVFAHzf+xV8N9H8N/Ef4qa54Y+H83w+0PVrrT9O0y0m0L+xzew2trv+1+RsR/3kl1IPn/efu/nCPlB5LoPgDS5vgx4WuNU+Hfi5vF0c+nQ/Fu+HhW9/tTXUceZexiZYd+qQfbY4N6W/nR+RlE/d/JX3VRQB8O+Ef2crXxR8RrO61z4d6svw70TT/EuuaL4Ym06SOz8iefTEtbF7XZs/efYrq6+xSJ+7NxH+78yP5OL8a/DTUrb9mXxB4Z8XfDfxf498ZaX8OdM0rwVajw1NqVnYP8A2OiTXSPIhggu0vfPMiPicpBAiB8pHX6AaD4hs/F2hWmp6beWuoabqUKXVpdW0qTQXELqHSRGXh0dcEEde3rWtQB8T+Mv2ctJ134mWp8SeBb/AFnwrH8SrDTkS68PvqXl6VZ+GjBA+wQyfuH1EYeTHl7PvlOabqXgKaPUrW+8deA/EXizwbrmt+MdRudETw7NqBudQ/tKCDR3ntdj/I9jDOY55NkcfmR73T5Hr7aooA+Cb/8AZR8Ra/8ADPX28WeHdW17xpoOg+EPBul3jxSXfl3sccf2rUrb+/JBJqM/+m9Y/Ln+dMSV6l+z74VtYf2vPFGrad4T1K6i1ZL3ULrxBrvhK50nV9Iunnt0/s+O+mjRL60dBK8fk7xAluQXfzI6+jPEPizSfDV/pNtqV7a2dxrl39h09Jn2fa5/Lkn8tPV/LhkfH+xVWw8d6NqNvpVxbatpc1vr0nkaXNHdo8eoPskl2QnP7w+XFI/yfwRuf4M0AfKXiLwNdfET9pDRW1nwJ4jvvF1t8SPtEniO50J/sfh/RLVJ57FLW9f935dx5EO/7P8A8tJ5En2SPHv5i2/Z78VeGvh/4f8AFXhXwnrGn/E7WvDvi/xTc3z2rx3lvdXUbyWWmu7/AOpH2jUN6WvyfvIJH2b0kevvauesfG2k3vjy/wDDsN35ms6VZWuo3Nvsf93BcvcpA+77nzvazjA5/d/7tAHz1+yB8PvDem/tM+O9f8LfD/xB4N8Pw+GdI0yyvNT8Py6VJ4gna5v5Lu6fzkSeaTi1R3n/AHn7vf8AckSST6moooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoor4ti/wCCzHgmT/gr2/7JX9iXn9q/2T5yeI/tqfZH1T7N9rbTvL2ffFp+83+Z9/8Ad+X/AB0AfaVFfB/xV/4Lg+Hfgt8KP2r9e17wVqFlrX7LWuwaPNo76knmeI0vfLGnTo/l5gjuJHx9yQxxpv8An+4Ow8B/8FZfDvxX+Mn7NPhPw34butUh/aG8FX3jqa++3oo8IWUFpHPH56bD5nmTubfh02PH36UAfYFFfnn+zL/wWY+KH7Wur6H4s+Hn7JnjbxF+z/4o13+yNO8fxeL9NjvJI0u2tZbt9Ib9+kMciSE5k4RPwr6I/wCCnX7dFp/wTd/Yp8XfGS98PXHiyDwrLYodLhvfsb3P2m9gteJCj7Nnnb/uH7mOpoA+hKK891v9qH4a+GfixY+AdU+IXgjTPHeqKj2Xhy6121g1e8D/AHNlq7+e+fZK+N/+CjH/AAV0+OX7Bnx10Tw3Z/sot428J+OPFGn+DfB3iX/hZ1hpn/CR6pex5jg+zeRJJa/vPMj3zlE/d7y4BFAH6FUV5v8Asv8Aj/xv8VPgjouvfEf4ft8LfGWoeb9v8M/27Brf9l7JnSMfbIQI5N8YR8oON+Oua9IoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPmH4d/CfxDr/7SPiDw7qml6hZ/DnwP4qn8XadczL/o+v3t8kd1GqDoY7W7m1CR+/n/AGV/4CK81+JPw3bWvDcN9q3gnWvE3iC88a69qtt4c1XwddalpGuQTajJYwee/l+XZT/ZIYHgup9nlpJ/GnmV90UUAfHMlp4l8RfFKbwvJ4R8XO+sfFr/AISLWr+XS7iLTLaysoPM0+T7U6+XP5n9nWmPL3pH8iOY5PLjfzOPwXrOv6Q2sWPw38bQ+Pv+FW68Nd8RXfhx4b3WPEt6thB9l3yJ57xwvJc+Xx5Hlp+4MiQPj9EqKAPiH4r+CdP8PReL9C1X4d6vrtj4o8T2ulaRqF34HuvEtt4f07TtHs4Pt/kR2s48/wAx7pIDs2O8n9xJKx7n9mBZvi9pOhaNp914f8H6fDoX/CCO/wAP9VvrzRrWORLqeZL3z4I9Lu3n8z7R9oTz5EEe/wAz/Vj72ooA+T/27bW81rxFqtvqngPxB8QdHtPCF1P4a0a10J9VsLnWnM4kkuOsCSQRpAY/PwT58wh3yfJXFePv2UJde0TxkJ/DOqapqnh/SPCngjwvcPaTyeRJGkYfUYE/56Qf2hJ/pXWDy5/3keJK+5aKAPiebw9ca7+0J4T1jWvh34u1LxhpPjzWtQ1rxK3h+TFjpdrBq39l2Vpcuvz28kaWX+o/du7/ALzZPPsrL0P4R+JtKj+F/wAO/sV9bTfGT4dWNh4xnKmOTSoNOn+1ajvz+8jef+1p7VMf6t50P8FfdlcrpXw10rSvHOreJobO4k13WIY4Jri4upp/Lhj4SOFHcpBGT85SMIHc73+fmgD5X0z4C2B8P/Ei10/4f3Gk+JvF/wAULGDUprfw7Ja+Zo/9q2jvIlysex4JLW1knzG7okk/7zZI71Usvhl4X134H65D4u8IeONJ+KWoQzWnirxNaeC77UrySZ7rzDEJkgf+0LGR40TyIPMj8j5P3dfbucUZoA+V/wDhENSi/YCkn0r4f2ug6x4f1FfEll4f0DRG03+0X07VUu4Hh0+T95A93Haxv5D/ALxPP2ffzXP/ALN3wM8cWvxs16Hx1aX0uj6frKfEe+uNrSQX+t3WnwQJZQEf66CxaG6PrvNp0KV9kUZoA+E/hz8MpPAt34Q8Sa38O9Q1Lxj4b+Er6lp9w/heS+uE155J764tQ+xvJuo3PyI+x3N3JsyXkFelfsmfsuL+z38W9Fs9N0FtOh0b4c2Fhq2pCN8a1fyThP3s5/1zwR2RCIM+RHPs+RJIxX1FmjNAHxX8Tvhb8VPHXhPxT8XLU6dDPcXGn61pXhe58M3U/iCPTtIvftlpaRv9pTyZ7jY8kkP2V5N935OTsTZd/ag/Z4n+NHjH4t61deFdW1DUQPD3hjwzM1pI32d2ffJqFqmNnmQf2i/+l9YPLn+dNklfY+aM0AfHOq/CeH4X2niDSYPB/iSP4Z6v8SxLqml6XpFzeS6hp0Ph2CPDwRo8k0E+pWsfmSf8tPMfflHkevL/AIL/AAe8GfErxppPh3xj8D9W8K2ll4k1G9f7X8N7qZ38zWLqTTtNhvYLaS3trKCPyJ5njnEbvJ18sz5/RaigD4uHgyW7+If9pS+CvFFx8WNJ8b32r6h4mk0Kf/R9Bgup5IbW2vXQRzwz2IgtUtbd3xJOXdN6SPWz+xd+zQvwP8XfCsR+G9Q07UrP4ZvF4l1OeGRpNQ1CaTTNkEk74/1H2W62QHiNJPkRB1+uKKAPlm2/aO0D9i6+8XaX8RrfXNP1LXvFl7qei3sGmT3dv4nS6k32scc6J5Ec8cey18ud49n2ZHP7s764XW9H8cfs/TapqU3hHxXrHiq88G+Ib/Srfw/ps2oW9vqur6rPqV1a+cn7uPyNlqPnx5+z93vf5K+ztY0Sz8T6NNY6haW99YXieXNb3MIkjnT+66P1/GjRNCs/Duk2tjp9tBZ2dnDHDb28EflRwInCIqAYVQBjFAHxnb/Bq68DxSW+reHfEGoeAdN8TaJ4f1qxs9EurxtV0PT/AAzsh/0aNHlurX+1ZkR440cfI+/MYkw7Vvgius/tLaRqFl4D1q3+CNro2l6FP4Zi0l7SMzXV1d3STvbbAZLSOSeFJ7X7ke9HkQJA6V9uUUAfGvxa1zWLkeOL74V+G/iRY3OveHtbk8SaPqHh69tbOXUPsUiWs1r50YR7uS6Eaf6I7xyJvd8/JJXL/Gn4d6fpvxFg8Ka94S1fWNak8WeFvD/g3V5tDeSx0PQoE0155ILuRPIhmkePUQ6Rv5/3PkMaCQfeVefQfs8eFF+JEfi57G+m1yKZ7qL7Tqt1cWllM6eW80NtJIYIZPLOzzI40fYxGaAPnj4Zfs8wyfEPwT4uvfBeo/8ACQeIvHHifXNZv7+ykNxBpciatBa2MhkH7iOSOexzD8kbvHn569Q/4J7/AA9074e/skeELKx8NyeGNUuLCKfXbWbRZNJmk1Py4xcyPDIkbt+8XYjkH93GmHOBXvFFABRRRQAUUUUAFFFFABRRRQAV+b4+O/iXWvhVH4y+G/xC1vxV4suJdb1LxKH8QvfaX4T0qe5dLVHhzJBayQefDOnmRvP5dvPxJHHsT9GLqD7ZZyRrJJC7rt3p99Kw/hd8P7H4UfDbw74V0nzhpnhjTLbSbMTPvfyII0jTf6vsQc0AfHvgeHxF4/k8I6HpfxKuF8O+JvHEjxTeFvH174lkXT7XQ7v7bB/ac8McjxyXHkfc3+RJJ+78t0+R3hfStJ+FXw6XVJ/FXiLw54R+IXxR1Wy8Sa7d+K77/Q9Osv7St7U/bZ599t58llawfaY3SR0kiTf/AKvZ9yVyPwh+Ftj8Hvh9Y+HdMuLy4sdNEnlzXbpJcTs7vI7yFFQby7v0A/OgD5d+Curax4z8daH/AG94o8bWnhXwToGr+I9p1O7gn1LT59bn/seS9ff5kmLCy3/P+8k/5aF98iPyOgeHta8PfDnwZqHiT4kfFS8mt/hDe+MvFxfxNdwfa5EjsHtYR5bp5Hl7Lr95B5c77D5kj73r7+zRuoA+C/G/xZ1K9udN8O+JPG3iux+IGl674Q8Madp2m6pd2knl3Q0l73Vb2CB08xJJLm5g3z/uN8CIn7x3zoadrvizSI9B8aaJ4k8a+JvEHiLxT40v9N0ibVp5LB9MtYdZNraJao/lyZn/ALPKGRHkj+4joiIg+5M5oLAUXS3A+FfG3xL0nQvhD4X1Twb8TrjxNH4k1iysPHGsar8Qbqw0/T82t3dlHuo/P/sh5J0jh2W6R7PMSP8Adl0evT7y51rRv+CZfjS81XWv7cv7fw1r2pWN/puvXd2JLf8A0ueySPUHWGefy4fJj8/AMnl7/wCOvprzFP8AEPzpd1SpJ7MD4R1q3Hw8g1m68C/ETxDJ4J+HPgzw1aaXJD4guLrSIrm6vbzfqruXk8+C3tJI5tnmPb+WiI6OkEYSbRvFDeJ9T1/SfAfxB8dTaDr3jvw34c0zVJNdur64k8i1/ta+ntZLqR/3c9v/AM84/IkjT5EdK+6M0ZqgPgXx948i8A+FdU+2fEDWptL0HxbrMdl4WvPHWpaZrfiW1g2Wnl2N/wCf9ruriO7gutlrvdJHnEfyYjx0Wr6V4h8d682p2fjr4iabca/8VP8AhGdEFprM4t9Os7KDy77y4HzHO8n9nXf+vSSON97oiP5m/wC2M5ooA+GrHxdrmi6j4k0ux17xpfeG9BtfHep2sT6/qN3fSwactppqQefvNxIftT3zp8+9JEHl/wCrSs6Dwb4Z8CaF8CP+Ed17Utcm0DwLres+G4IvGN9cW+uaxY29hHBawf6V5cn37r9xHmPy45E2eXX3tRQB8C/C/wCLPirSvhL4h8TQ/EbR9S0+4i8Pabrl/Y+NJ/EX9kzXWoIl9qLm6tYINNeO1mmc2yDy4NkbvGiIK9f/AGA4fDes+L/jB4g8Latq2uaJL4ltdEsr3UtRvtSuLmG20uzkL+fdO8jxme6nKf8ALPZ86fJIK+m6KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMTxbr7eEvCuqapHY3eqNYWs1ylnZpvuLsohcRxp/G74wPc1/P7a/8ABPP9uDR/2a7X9odfBXw3m8Yw/Ev/AIXx/wAI+llrH/Cx5Lt32PpTw7PI8j7P/wAuuzzMfJ9/93X9Duc0ZoA/In9tj/gnl8QPj1/wW0+D/ijRvDWvWnwW+LVtoviz4mGWyLW6ah4d+0TWtpfHGxPMSS0gEb/f2PjOx6tf8ENv+CdHxK/ZY/bZ+OOqeONF1dPDPwnsrj4b/ChruExrqegz6td6uWhkf5HX99bpvHGZHjyPJIr9bM0ZxQB+AHjL4AeJrr4hw/8ADMX7Kv7XH7MH7QepeKbW9urmG8dPhjaAXX+lPNN532WeDyzJ+4jjSM8bMoNj/ox/wcZ/A7xh+0f/AMEiPib4T8CeHda8WeKNQuNIktdJ0q2e4u7ny9VtJH2Rpy+yNHf/AIBX3PuozmgD+f79s/8AYS+JXiTx5+098NV/Z18d+Mfjh8Yvi/beK/hx8ZLbRI5NH8MaL9qtJoEfV93mWX2eCOaDYP7/APsCv0W/4LRfAvxh8atZ/ZDl8K+HdY8SL4P/AGg/C+va41jam4OmafAZ/Puptn3IEz87ngZFfddFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABQTgUUE4oAhZs9VpeCntS5yRj7tcp8T/ixo/wAJtGa81aYKp+WGJBvmnfsiJ3NcOYZhh8HQlicVLlhHqa0aM6s+SlG8jqiWH+1/SsLxN8RdD8Ic6pq2nab7XE6p/M14Vr3j3xt8VYWmu7z/AIQfQPv+XE3+mSJ/tv8A8s/wrjIB4F0vUZIrDTb7xjqn/LQRQSX0j/8Aslfj+aeLTTtgaPLFfbqy5eb/AAQ+KX/kp9ZheFXJXxE//Adf/Jvh/M9+uf2qPAMLbZPEloT6LG7/AMlrU0b46+D/ABR5cdn4k0lmk5SNrhVkf6K3NeKWN3qn2bfZ/C3UVg/27dIZP++NlYniLVvDKnZ4l8C6loHmdZpdM2R/99pXix8UM7pe9VVPk/vUqtOP/gcvdO3/AFYwM/dpuV/8cJf+Sqx9awXCXC5Vg+PSpV65INfKvhLSL7QLb7d8PfFMjQx/O+nXE3n2j/7Gz/ln+Fen/Cf9o+HxRqy6D4gtV8P+Iv8AlnBI+YLrp/qn7/7vWvvOH/EjB4uUaOPj7Gcvh97mhP8Awy/+S5Tw8fw3XoRlOl78Y/KX/gJ6/RSK3A+lLmv0w+dCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoPNGaD0oArsP3o+X5R0PpXO+PPiNo/wz0dr7Wb22s4SSEDN88x/uovVj9KxvjX8abb4VaVHFDF/aOualmOwslP+ufH3m9EHc/5HmHhzwBdarri+IPEtx/autTdHb/UWv+xGlfnfE3GUsPX+oZZHnq/af2Yf4v5pf3fvse9luTOtH6xiPdh/6V/Xc2dQ/aA8YeNwq+GNBh0axb7t7qxzJJ/uQrz+ZrKufDnjDWxu1bx5rQeT+GyRLVE/74qQ67q3jfXZ9I8JxQ3Elm+y/wBSnH+i2Dj+D/bm/wBj/vuvN/7V1DxPrGnaPrl2NUt21K2tbhHhSOO72a08H3P9xK/K8xxWIqtTxlWrV5/73LD/AMBjy/8ApMv8R9ZhaFCF/YwhG3/b0v8Ayb/gHYSeEjDceX/wsjxZHMfuo2t9a1rOw8ZaSN2m+OrqZP7moWyXSSf8Dr1aL9n/AMDJaeWvhHw2IpB86/2XDh/qNtZOqfsseDZ1ZtO0+TQZmHEmk3D2Wz/gCEJ+aGvrP+Id46mvaUW/+3atSJ48eIMLLSpH/wAlizldK/aR8R+DmEfi7QY7yz/j1HRz5kaf70L/AD/lmvWPB/j3SvHeipf6RfW97bSDO5D93j+L+7+NeR6z8NfFngaCSTT7qPxppEQJaCYJb6lGP9l0Hlyn2OyuP021W3u38SeAZms9Xgfy9Q0512JPs+/DND/BJWeH4izrIq3scdzVaf8ALP8AiL/DOPu1P8PxeZU8twOOhzYb3J/+S/8Ab38v5H1NHJntTlbfXF/CH4s2fxa0H7VbB7a5t28u7tZf9Zayd0NdkkuSf85r9gy/MMPjsPHFYaXNCR8jXozoT9lW0kSUUZzRXoGIUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUHmjNBPFAEYGw9KDyOKr3eoR2Ns0srxrCq7mZmxtrxnxP+2t4fj1eTTPCthqnjnVYvvJpEW62iP+3P8Acx9N1dGFwdav/Ciedjs2wmDX+0z5T2xMA/winEBq+fpfiT8bfFBEll4f8F+F4JP+Weo3c19cJ/35+T9aQzfHCNt//CQeBXk/54tp84jT/gea7f7Hn9upFf8Ab3+Vzyv9ZoS/h4erP/t3/wCS5T35V8z8PUU5Rs9BXgX/AAuP4weERv1jwb4d8SQxj530K/aBx/wCb7/4Guj+HH7X/hPx1q66PeNe+Gde6f2drEP2Sd/dM/K/4E1lVyrEwhzx95f3XzGuH4kwM5+ym3Cf9+PKewUU1JFkGVYH6GnZrzz6FO+qCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACg0ZxQxwKAOT+KXxIsfhV4OutXvj+7h+WOIffnf+FE9zXzj4k8Qax8Ztf0/+1bOHQ/HFqgutCxzaXyff8l9/3HrqPibrH/C2vjbPayP/AMU54IUtKf4JLo//ABH6bP8Abq7+z54Vf4neMJPHWpI32KzZ4dDt2HAHR5vx6Cv5v4mzDGcU5xHK8LP9yp8nJ/Mo/wASrzf3Ze7D+95M/Qctw9LLcH9cqfHb/wBK+GP/AG99r+6P8Ifs6ax8RrxNQ8fSNDDGcw6LaS/uh/vumM17J4d8J6f4U0lbTStPtrO3T/llFGEA/KtggNH8w/M0bFYcfnX7Fw/wblmTx/2aHPP7U5+9OX/b36bHyOOzbE4p++/d/lXwocqY7Cobm1iuomWSNZFbgqRUwf5d1ef/ABt+MrfB+200x6bcapNql0LWKKKQIcnnvXsZxmWEy/CTxeOfLTjucuFw9WvVVKj8RzfxC/Zd0/V7n+1PDD/8Izr0Y4ltjthuP9l09P8AH+KvKfGWmax4fvrPWPiFaW8P9lPs03TLST9/rN1/f3p9xPuV698Ov2kZPFvj210HUPDd9os95FJJA8syPu2delav7Qvwm/4Wl4VQ2jeTrWjsbvTpweY34+T6PtxX4tn3C+UZ5ltfNuGfjh9j4YylHll71OUfi+1H4eaVr3R9jgM1xmCxEMJmXwv7X2uXbSXZ/h0sYnwH+Pd5421m48P+J7OHTfECx/aYEQ/u7iH/AGf9pO9ewK4288cV8k6pqtz408GWfi3TUW28ReFpd8ibOrp/rkr6b+H/AIut/HvhKw1S3ysV5CkoH93I+7X0nhnxRXxsJZdi6nPUhFSjL+aEv5v70Je7L5Hm8SZXToVFWox5U/ij/LL/AIKOhHSiiiv1s+XCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKDQBGVxz3rM8TeIrfwjoN7qN44htrGF5pH9EQZNabHGPWvEf2rNc/tifR/BsEg3axcCe/VDylsnz4/4G4H/fJr5nijOlleW1cVD49oL+acvdj+J35bgvrOIjS/qxzPgGzuPH2s3XjLWFP2zVf+POJ/8AlxtuqJ/WtDxfPfa7q2neGdFlaHVNaLB7iP8A5cLZP9dN/wCyJ/tyV0EEaLDGqL5ccf3Erm/B/jC6+HPxK8R6ldeGfEGrNdrbWtncWS2rRpAkfmNy8yf8tHcH2RK/IMDhoUIww+Il8c/fl/5NKX/b3w+R9rWrTanKnH4fhj/X3ntXgvwVp/gHw3a6VptvHb2VqgRFH0GWbjlq+LfHWoXGiT6te27eVc2t280Lf3HTXZ3Svpl/2mpCzY8D+NMY6YseP/JmvnDxd4T1bXodUt4NNuF1C4ie+S0Z08yNH1eef+/5f+resvFTHUMTgIUcoesIS+CMv7vKHCNGpTrzni1ZS5d/mfS/7NHjrU/G3wZ0/UdQm+1XzPMkkpj+d9juPuJ9K71bWS4wJOeOrdP++a+cf2Z/iDrPwe8E3Ol6p4S8RX3+kma2a1a1YIjqMJ88ydMGvSv+GnJHTB8C+M/ysv8A5Jr7rgbjDD/2DhIZhOXtuSPPzxlzcx8/n2S1Vj6vsF7nNpblseh3Gt2emyW9rcTW8M10/lwq77PPfbvOz171wHxm+EdxrhbxJ4bWKDxNZR5MYxHHqqJ0gmP/AKA/8BNeV/tA+M9f+KWpaZPpHhfxNZNpttcojzG1STzplRB92f8Aub6818JWPxS8BajHcaZZa9bNv3yIbmOSOT/fTf8APXw/F3ihB42eVzy6rWpfzx/wx96Pu/Fzcx7uT8K1JUY4qGIhCf8AJL+up6c3itfC99pvxF0LzBbyRoms2n/PeH+P5P8AnpHX0fpGpxa9p1vfQSLNb3SLLE6/xK3Ir5u+Fi6xrFx4kXXdCk0m11aZLr7O7pJH5zp++2fP9x3Tf/20rpfgZ8cdL+F/hqLwv4ouLzT7rTbqa1trm4tn8meLedhD/SujgniOlluJ5cXLko4j3lz+7yVI9LS+H2nxf9u+Zln2Wzr0ualHmqR3t73u/wD2p9AjANQ3NxHawvNK6Rxxjc7M33Kh0jV7XXLGO4s7iG4t5hvSWJw6uPYiofFPh2HxToc9hcNIkNwMM0Rw1fvVGtCpD2lN3PhJRcdGXLO8jvrZZYZI5oXGUdH3h6sVi2ugt4a8JfYNLb95bwMls0zb/n5xmofAf9tJoX/E+2fbt/8ADs+5/wAArYR0FFc/4K+IVh49juWs/tCfZX2us0ew10FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABQelFB6UAVyzMy/dauX+KXxT0b4P+DbrWtcult7S3GwKDueVuyIvVmPoK6DU76DSrGW6uJI4YbdPMZ2bCoK+avAiTftSfEr/AITvWo5E8K6LM8PhrT5ukmz7966f3+vHb/gFehl+CjV5qtX4I/1yrzPAzrMp0FHDYf8AjT+H/wCSl5ISPwb4o/aouI9S8bPd+HvCIbfZ+HLdnjluY8/fun/9k/8AQK9b8NeFtN8GaPHYaXY2+nWNv9yG2Ty46v0V2YjGSqe4vch/L/X5nFgcpo0Je1fv1Z/HKfxfL/5EKKKK4z1ArB+IXwy0H4n6RJY65ptvqEP8G9P3kf8AuP8AwVvUVpTqThPnpmWIw1OrDlrw54HjWneIvE/7Id4rXtxqHi74cNJtkml+fUNBX1P/AD0g4/z/AB/RPhfxJp/i7Q7bVNMuI7yxvolmhmQ5SRDyCK5eaGO7jkjdPMjk/duj/wDLSvIfCV/J+yH8T4dOYyN8N/F11stgz/JoN6/Plj/pjJ29/wDx/sqU4Y6ndfxf/Sv/ALb8/U8ehiKmUVIQf+7z/wDJP/tf/SfTb6eopFcMoI6HpS5r58+1CijdmjNABRRmjNABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUZxRmgAoozRmgAoozRmgAooozQAUUZozQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBG6nI+tZ/iXWY9F8PX17N9yzheZ/oq7q0s8CuI+P07RfB7xRt6jSbn/0Wa8nOcVLD5fWrw+zCUvuVzowtP2laMPM+aY5Lq0+Ae5X36v4y1DY7/wDPR5n/APjaV9X+BvDMPhHwlp+mW4xBZQRwoPZRivmewiWbTvhRCf8AUyX9m7/7/wAlfWURAG3+7xivx/wfwMFUr4jrGNOP/kvNL/wKUj6/i6u3yU+nNKX/ALavusTDkUdBRmmyH9230r90lK0bnxBjXHi/S7a4aOTUrFZIxl0adV2V5L+1Lex32r+AJrdlljbVxtZTuD15p4V+HGkeK73xld6hYx3VxDrl7Gru79aLFtvwO+E59NZuf/R0lfzjn/HmMzXL62Er0oQhKPND3ub4a1OPve7/AHj9CwOR08JiIYiEubXl/wDAoSZ22if8nTeEv+vG5/8AQXr6II+avnfQz/xlJ4R/68Ln/wBBevog8PX33hiv3WN/6+/+46Z4fFH8Wl/g/wDbpHzhq+kr4L/aO8QaaqiOz8SWa6mif7f+rf8A9mrpf2Nr5rLwlr3h+Rv+Re1aaGEf9MX+dP5tVH4+qIf2hvBTJ9+S1ukf/c21N+zE3l/Fz4jR/wAPm2bBfT929fD5LTWB4xjQo/8AP2rD/tyVP23/AKUe5jourk3tJ/yQl/4DLk/I90HSigdKK/oo/PQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACg9KKD0oA5f4neOrf4c+B9Q1m6VWWyi37P+ejdFX8WxXzb8CLjV/G3jDWvFGpy+e2oHyd+zjf8A3E/2I/uV6N+2Eg8VR+FfDAnaE6tqLSu6/wDPOFDv/wDQ6r/2povwp8HZmXybPT02Qxf3/wD4uv5742xFbG8R2rz5cNg/xnKP/tsZH6BkdOFDLbwh++rf+kL/AO2NyO1muf8AVrJJ/uJUn9k3EX/LN68xuPF/jLxqu5Jk8Oaef9TF5Pn3Gz/0BKijsfFdnJ5tv4ouJH/uXFvH5cleM+MMPJ2o4eU4fz+7H/yWUuY9COV1X8co3/rqel1x8B8n45XH/YDj/wDR8lSeDfizJqusR6N4kt47LUn4trhT+7u/9z/4ip/ir4KuL+KO/wBP8tfEOk/vrOX/AJ6f9MH/AOmb13zx1HG4b6zgve5JfB9r/D/iOeFKdKr7Kt9o6UdKKzPB3iOHxh4Zs9Rg+RLuHzNj/wAH+xWnmvapzhOHPAxlFxnyBRRmuQ8XfF6aLV5NJ8M2iXd7B8lzdSv/AKPbf8D/APZErlx2ZYbAw58TL/5OZVKjWqz5IHb/ANm3Eg/495/++Kp6rpS3cEkN5brJHJ99Zk+/Xm8tr4svDum8TSI392K0Ty0q1bfEbxV4H+bVPJ8QaZ/y2eGHy7hP9vZ9x6+f/wBbcJN8uKw8ow/n92f/AKTKUjseV10vcnGT+ZRt9Nm+HHxPFjpGtX3hfT9WtvPtTEnnWkl1v+dGhf8A2K9m+FnxautZ1RvDviKCKx8QW8ImR4nzbalDx++hP/sp5Fcb4j8OaT8XPB0cltL52nz/ALyCaF/3lu/99K4XVZvEnhjxL4Th1doJLfT9YhS21iN/L8uN3+dHT/bT/gFTl+aYrhzFKvhv3mGnP7Pw8svijy/Zt8UZR/wyMcVgqWYUeWXx/wDk3/B/vRf/AG6fXQ6UU2M5jX6U7Oa/p6Mk1dH5qVLTT7fTw32eKGDzG3vsTZvNY/hnwJ/wjXiTVL5b64mj1R/Ma3df3cf0ro6KoDndD1zWLzxfqVneab5GnQL/AKNcqf8AW1di8XafN4kk0hbhf7QjTzHi29q1axZPBmmyeKE1ow/8TGNfLEm7tjbQBtUVyOr+GtbvfHtrqFvqnkaZBsL229/3v9/5OlWPGXxEh8H6xptm1rcXD6g2NyD/AFa0AdNRVS71C308L9olhg8xtib32bzVugAooooAKKKKACiiigAoJwKM4oPSgDwf9s/xFca5o2g+AdLdob7x5e/ZZ5UHNvZoN87/AJY/AtXY+H9GtvDmjWljZw+Ra6fBHBCif8s0SvPr9/8AhMP229Xmf54PCPh+G1iT/nnPO5ff/wB8V6ZXv4m9HD0sP/29/wCBf/a8p8XgP9oxmIxlT+fkh/hj/wDbcwUUUVwHuBRRXG/FX49eGfg5An9sX2y+uP8AU2Nsnn3lx/uJW1GjVrT5KUOeRz4jEUaUOetPkgTfFr416D8F9HgvNaunV7yTy7W2hTzLi7f+4iVwcn7Xl9ZW/wBsufhv42h0n/nt9mjkkRP77w15f4w8Q61f3+tfEW80e4sda1S6tdD8JWuqJ8+mo/HnFP4H+/XdeKf2Xda8I+DrrWtN+IHip/FNhC908tzc+ZZ3kiJv2eT/AAR19dTyzAUIxhifjlp13025f5e+v+HQ+KqZxmOInOeC+CH9faPYPhv8TtE+K3hiHVtCv472zk+Tch/1b/3HT+B6X4m/D6z+KvgPUtBvl/c38Hl7/wDnm/8AA/8A2zkr5z8CeNbr4deINK+JGn6Dqc/hnxlpm/xBZ6XB5n2S9R/9ds/77/8AH6+hfhx8W/D3xa0f7Z4f1W31FI/von+st/8AfT/WJXkZlldbB1va4f4O/wDLL+WX9eZ7WXZnRzCh9WxWk5/Y/mieb/Db9sT/AIRD4Y2+g6xZ3mv/ABE0m5k0T+y7PAnv5Is7Zt2PljKclzx9+tldN+MnxHk+0al4r03wTbyj/jx0m0S7kjHo80n8f/XOuysvhb4f0zx/feJoLCOPXNUhSCa5/wCeiJ/+wn/fuuh6VzVsZh4S58PT1l/N73/gIsLlOMnH2OYYifJH4OT3f/ApfFzf+Snl/wDwqH4g6fmTT/i1r0dwfufbNOgnjP8AwCkj/aA8f/BBt3jzSLPX/Dsf+s1zR02yWo/vzw//ABuvUao61r2m6NHGmo3lnax3H3PtMyR+Z/33WX1znfLiYQl8lH/0k0q5V9WXtMHWnGf+OUo/+AyOv8L+K7HxroVrqmm3UN7p99GHhmibKOvqDWmYshv72MV8v/C3xtpH7P8A8fH0Oz1iwbwf4yR7uyhS5j8jSryPmSMf3EdOR7ivoKb4neG8bf8AhING+buL6P8A+KrzcZhVSnaPwy2PYyjO6eLo3rPlnH3Zep0g/D86Py/OucHxO8Nj/mYNG/8AA6P/AOKo/wCFn+G/+hg0b/wOj/8Aiq5OV9j2PrVD+dHR/l+dA/D865z/AIWf4b/6GDRv/A6P/wCKo/4Wf4b/AOhg0b/wOj/+Ko5WH1qh/OjowwBp33hXOr8UvDpH/Ie0X/wNj/xrfWYSLlaRdOtCfwO4+igHNFI1CiiigAooooAKD0ooPSgCAdPm5+tQXuqW+l2zy3E0MEMK7mZ32Korwf8AbK/a7ufgJNo/hnwvpkWueOfFCt9gtZpcQWkK8vczd9gz9Xw2PuGvnPUPgLq3xkvY9U+K/izV/Gt5uD/2Ykz2mk2f+5Cmz/vuslKpKXJSifa5HwbPFUI43GVfZUpfD9qcv8Mf1lKJ9O+Pf+CjHwY+Hkrx33jjSbi6jby/J04PqEhf+7iFXNcNqf8AwVW8Kzt/xI/BHxM8SKfuy2WgHyz/AMCkdBXJ+Evhp4e8BRxpouiaXpX/AF7WqRyVtVccJiH8Uj6qHC+R0lZwnN95SS/8ljH/ANuLZ/4KaaldgNa/Bv4gMv8A03EEL/8AfBegf8FNNStAWuvg38QFX/pgIJn/AO+A9VMUYp/UJ/8AP06f7HyS1vqv/k0v/kjS0z/gqv4XR8a54I+JfhtV+/Ne6CTAP+Bxu9dx4F/4KMfBnx88cVj460m3nkO0RX4fT2Df3cTKleakcVi+LPhn4d8dx7NZ0PS9U/6+bVJKTwmIXwyOapwxkFVWUJwf92Sf4Sj/AO3H2VZanb6jbRzQzwzRTLuV1ferj2q037xflPf0r88rH9nzVPhJcvqfwq8Xa14KvA28aeZXvNJn/wB+F/8A0Ovon9jL9ra9+OsuseGfFelw6F468MKn2+1ikzBdwt9y5h9UOPqmVz98VPNUjPkqxPlM74MnhcPLGYSqqtOPxfZnH1j+sW/kfRQ6UUDpRWh8WFFFFABRRRQAUUVl+JfFNj4UsEuL+4WGF3EauVLfNQBqUVlaxqlxP4Zlu9ISC+uJId9sjv8Au5ai0mW58T+Ek/tG2ksbi7hZJogfnjzxQBV+Kmitrnga+hjLiaNPPTae6fP/AErjf7Q1Lwx4R0/U9L1y4uv7Q8tILC5X7R5j/wBxHruvAvg//hCdD+x/aprz59++Q81geDPhbNoPiea5uJFksbORzpkP/PuH60AdfY+cLCE3XlrcbF83Z93d3xWZ478ODxT4N1ew7X9nNbf99oVrdJpG2kdK5MXh416E6EvtpounUlCamj4zi1Vh8DvDWsRp+/8ACupwTyJ/c2Ps/wDiK+v9JvYtT0+C6t28yOdFdX/vDFfN+v8AhOPwT8X/ABJ4XvFC6R4uSS8sT/tv/rE/z/crtP2VfH0iaXc+C9VYJq3hv93D/wBPdt/BIvt/9jX4F4bZjLK82llmN05/3X/cWn/8sj70f8J99xJh1i8KsXR6e9/27P8A+Rlp8za/aP8AiVq3wz8K6bcaKtr9s1LUorFftC71UOrn/wBlrkPC/wAZfHVj8UPDmi+IB4fms9badP8AQ1kEiFI9/wDFW9+174e1TxF4K0X+yNPutRm0/WoLp4bdN77USTn9RXD+FrfxF4w+M3hG+uvDGs6TbaTJdNNNcxYjzInH6qK6OMcwzWlxE6WHqVfio8sIKXLy83v/AN34dzmymjhJZdz1Iwv7+/xfD7vnuVvhU2Lbxx8v/MevP/ZKxNPH/FkPhL/2Gbn8f30lX9Mt/FXgjVPFVoPB+u3keoarc3UMsMGYyj1NfeAPEejfAv4expoOoXN5o2oTXFzaQx5kjXzpHTI/KvzqNGvOlOEKM/dpS5/cl/z/AKMv5f7p9JKpTvBc8fenH7S/59z/AK9ToNDQR/tS+Eh/04XP/oL19CHnt1r51+F9tr3if4+6Hql54c1fS7PTrWdHlu4tiEuleyfFP4j2Pwu8H3mrXpAjgj+VQeZX/hQfWv2fw7x0MLleNx+KvCn7WU/fTj7vs4/zHxvEFJ1sTRo03zS5UtP8UjyXx/qH/CU/tSSrGc2/hjS1R/aZ/n/9AetX9kK3/tX/AITLXcZXUtV8iJ/78cI+T/0OvMhf33gz4c6lrV5vk8T+L7nfGif6wSP9xP8AgFfRnwS8Br8NvhfpGk/KZrWHMxHR5WO9z+LE18pwHTrZnxH9dnH4OerL+77T3acf/BfMexntSGFy1YeL/lh/4D70n/4EdkOlFFFf0SfnoUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABQelFB6UAeA/E++bxX+0pb2//ACw8L6d5n/baf/7CuR8Qn/hK/i5JDL+8s/DkKOqn+OZ/4/8Aviun8cx/8I1+03qHnYSPxLYwzWzZ++8HyOn8q5WB/wCzviz4ktm+9deTdQf9NE8vZ/6GDX8n8TVassTWhV3nXnz/APbsZcn/AJLGB+sZTyxowcP+fSt8/i/ORs/DX4bT/HO5utQvr24s/C9tM0FvbwPskvWU4d3cdUJ6Cuy179krw4bL/iRyXmg3/wDyxuYbqSRC/wDto7/P9DUX7J2sxr8O30Xd/p+g3M0FxCfvuju7o347h+Rr1OaX92P3bxxI29mkO3bX6dwbwbkGOyCnjMTTjUnUh78/tQl9qMZfZ5fh93sfJZvnGPoY+dKlJwjF6Lpb/wBuufK9xpd14t8Palpt+n2bXNFuXhYx/wDLOZPuOlejeAvE3/CbfD3S9Vb/AFzR7H/3/wD9vfXGnxNba94z8X+I43X+zLu4zFMOkiQps3/+OVtfAmGaz+FGmwyfJ9oV59n++7un/odflXDkvZZs6cJc0JQn7383LL93L/t6J9jmHv4WNSe/u/8Ak0fe+4j+Ejraw69aKP3NrrN0kK/8897+Z/7PXXkZrz/w7beLPCUmqLDouj3iXmoT3fnPqzw797/J8nkf889laY8UeMj/AMyvo/8A4PJP/jFfV4HMIUsPGE4T/wDAZf8AyJ5tbDylLmj/AOlFr4q+IJvC/gq+urX/AI/JhHBbf9dH+SuQ0/QbnRLbR/DOi+WdW1ibYkrj7n8c0z1p/Fua8l+GVvdX9vHZ3FreQT3UMM/nxom/+/sTfU2k+ILfwr8X/C2q3Unl2MnnWTyf8s4Xdfkb8elfI51Uhic5UK8uWH7qH+GMpe9L+7/7bynpYXmhgm6e/v8A/ksfdO9039kTwotj/wATZdQ1q+x893Pezo4/3FV/l/CuE8deBLj4Jazp7Q3V1qPhnVpvsy+e/mT2M38Cb/8AnnxX0QblmbDRNIB91lHWvI/2qNbhXR9F0NVWTUtR1GO4EWeYoozvkf8ADH61+rcbcH5Hgckli8HTjSqx+CUft/3Zfzc23vHx+R5xj62PjSqzcoy3/r7PyOK+Fcv/AAiPxNutHX93pesQ/a4E/wCeb/cdP/Z61Pjnp63vw11iOT5PJh3p/vp89YlmRc/GPSvL+/YWU87/APA/LRKm/aKkn1XQ9LsbcLNdapqsKrbn/lv/ALH/AH3sr8rw2KlT4fxNHk54wcow9ZfZ/wDApH2E6V8fTqel/wCvQ+gvh54nbxR4J0fUJB819ZxXB9t6Bv610EajGR0auR+DXgJvh18MtJ0eSQPNaQ4mYd5G+d//AB9jXWREMuF6D1r+ocjnXll9CWKjyz5I8y/vWVz8rxXL7efsvhuyYUUUV65zhRRRQAUUUUAYHjH4e2HjV7Nrz7Qv2B/Mj8p/L5pvj+TXE0eP+wFSS880bixT5E7/AH66GigDF1XxDH4Z8LfbtUwv2dEM/lfP8/8A+3Vrw5r0PifRIL+13+TcJvTfVi/sYdTtmhuIo54ZPvI6b1NVda0P+0dAnsbWb7D5ibEeJf8AV0AaVFc94I8Kf8IB4ae0W5uNQ8tnkQP1H+wtQeBPFeo6xpN1caxp8ul+S+5N67d6UAdRRXlnhDxZqWiTw6tqMkkmj+IJn+//AMw99/yf9s69TzmgCGRuecfnTWkKJnaw5rh/jR8eNB+B+jpc6pNJLdXTeXZafbJ5l3fyf3I07mvJZtH+JXx+YTa/qk/gDw9Kcx6VpTf6ey/9Np/4Pw/74rvw+XzqR9rN8sfP9O54GOz6lSq/VqEXVq/yx6f4pbRLvw3m8/8Aa3+MrDoX0fH/AIBmvURwK5D4X/BDw/8ACCC7/sSzkSbUP+Pq5mmee4uP993rr67cbWhVre5/JH/yWPKcWTYerQw3JW+PnlP/AMClKX/twUUVzvxO+Idj8MPBGo6zfPGkNhA8iJv8vz3/ALiVz0ITqz5IHfVrQow9pM4v48fGrUtE1u18GeDUt7rxhrCb3d/+PfR4P+e7/wDsif5fyPwbYTWPjG+0vwDbx+LPHG//AInvi7Vf3lvZv/Gm/wD9kj/8fqnomma9PptlpNvKY/iJ8WJ3vtUv8fvNM0//ANk/d/5+5X1B8M/hvpXwq8IWui6PbeTZ2af9tLh/77/7dfbVcRh8rwqpU/enL/yb+9L+7f4Y9fiZ8JQp1s3xXtqnuwj/AOS/3Y/3v5pfI+b/AIt+Fda+HthdaP8AEfWrzXPC/iONJE162tfL/sS9T/YT7kf+f79XPE/iPxxqvwxEWvfETwLa+DrxPsja7aI/9oX6fxp/c8z7/wByvpy9s7fULOSG4gjnt5I9jo6b45K+OPAtjDe/Dj4U29xDbz2cnjeRHgdPMjkTz560yvHLG0XUqQ96Ev5Y/wAsvh092Xu/4epz5tl/1Gt7OnP3J/4v5o/+BfEdh8O9H8c/EbT477wNfJ4W8I6DapaaFbalbeZHrez77v8A8tEj/wBuslrJvF3jp44bU/DP4waennpsk/0PW0/9nj/z8/l19ZgeSK4X48/BS3+MnhTyVf7Drmnv9r0jUU/dyWc//wAbrzsNxFGpiffjyR/r4v5/73N8j1cVw1OnhuanPnn/AF8P8v8AdKvwA+OX/C1NNutP1S0/sjxbob+RqenP/wAs3/vp/wBM5K9E718kT+OtQj0vS/iZDb/ZfFngm6/sfxVZp/y3h3+XJ/8AHP8A9ivq/Q9ctfEGlQXllNHdWs6b0lR/3ciV52e5eqMva0/hl0/ll/l1j5Ho5DmjxEPZ1Pjj/wCk/wBfEWK+Yf2w7T7f+0R4Vjbwrb+MI49Enk+wTTxwR/6+P95+8/z+8r6erwX46f8AJ1Hhn/sW7r/0fHXhnPxlFyy3kX88f/SjzX+wbf8A6N70f/wb2lR6Jotn4i8YzeH7H9n3SJtYhs/7Ra1GrWqkw79m8O/yf6yvYKb+zv8A8np6hxn/AIo2P/0tNY+0Pg8uy2NbF0qE5v3/AO7H/wCROIHwB1gj/k2nSfx1+y/+Lpf+Gf8AWP8Ao2nSfw8QWX/xdfWXxM+Imi/C7wjda5r+oWum6bagl5pmwOn93qzH+6BmvmvxZ+3h4o1ifUrvwdpPh2HwrA/2a01nWrprQXDlM+aiSbMoOm3qcVUJSktD6nNsjyXL/wDeq0+b/DT/APkTB/4Z/wBY/wCjadJ/8H9l/wDF1h+KP2ZPF+s6jp0th8B7PSobOfzLqFNT0y4+2p/cG9vkq/on7ZnxMs4/sdj4u+F/iq63ecjTymG4ufk/1CImxP8AWfx17v8AAn9sTR/jL4kj8O6jpOteHfE32bzmttRtPJjnZMeYIX6SbD3o96J5mBwORZjP2CrTg/ONNf8Atp8n/FD4BeJvCXws1i81D4R2ulw2tpPJNqf27T5Gt/7j7Uff+7/2K+9vgxfHUfhH4XmKeWtxpVtJt/uZhQ4rlf21hj9lXxx/2C5Oa6X4DPu+B/g7HX+w7Mf+QErOpU5on2GQ5HRyzMJ0aEnbkjv/AIpHYjgUUDpRXOfcBRRRQAUUUUAFB6UUHpQB8Hf8FI/DHiTQv2pfhT4i8H2dvfa9q1tf6aba4lSOO7WHy5kg3v8AcZw02P8AaxWF4Y/at8Pz6n/ZHiZLrwR4hjGZtO1yH7LIn/A3/dvXtn/BR/zNFtfhP4oT5f8AhH/Hlh559LebfG/P/fFezePfhJ4X+Kuj/YfEmh6TrtowH7m8tkm2f991x0fbRrTcJn69heKsPQyXBUsXR5kozjzx0ldTb/wy92Ue3qfOtrqUF/BHLbzRzQyfcdJPMjkqatbxB/wSx+GNzdSXHh8+JvBl1J+8d9E1ieD/AMcYvHWHP/wTi8R6Sv8AxJPjV4wtl/g/tG2h1H/4iur63W+3E6qWeZFV+Gu4f44S/wDbOYmoqm37Bnxbtfni+ONndf7Fx4RhT/0B6jX9gz4t3Q/ffHKztv8AYt/CML/+hvVfXpf8+p/+S/8AyR0fWsntf69D/wABqf8Ays0Khu76DToHluJo4YY/vs8nlxpS23/BOLxNqq+XrHxq8YXK/wDUNs4bH+j1Pef8Ew/hno+mtda23ibxnfRumybW9Znm+f8A4DsjqfrVaXwRMnnGSQqWlXc/8EJf+3cp5X4x/a18M6ZdHT/D8k/jHX5P9Tp+jp9qkf8A4Gn7tK3v+CZuieIPGX7UvxS8TeLbS10/WtFtNP0mO1ik3x2iTAz+QP8Ac2p/wPNezeB/hn4f+G+itY+H9H03SrP+5a2yQ+ZWD/wTFtn1jQfir4lb/mPeO78QH+9DDtjQ/wDoYrnre2nWhzzKzTPcJ/YmNp4Sjy35I88vivKUX/277sZefmfVg4FFA6UV1H4kFFYem+N7HV/FF7pEHnfatPQNJ8n7v86py2Ovf8LGhuFuY/7BEZDwr1+5/wDF/pQBvS6lb2l1HC80KTSfcRn+d6y/GPi+XwvcafHHp9xffbpvIPlf8s6bq/gCx1/xRY6xN5/2rT/9Xtf5H/CugoAwPG3h/UddtIF0zUJNNkjl3uV/5aCtPWNGt9esJLa8hjnhk/gerlFAENtapaWyxRrsjjXYq1NRRQAUUUUAFB6UUHpQB5t8ffhK3xY8LqLOVbTWNLb7Vp1zx8kn9w/7D4wa8Gi1jVPCXiWw8YeJrK40i/0lPsthpsPy3esTfx/9sfnr66zsHzH2wK83+OXwGj+KLWmpWV22ma9pgzaXQ5Qf7Lr3FfkPH/A9bFT/ALYynTEQ5XyfZlKPwy/xR+ztzaKWh9TkOdQpf7Hiv4b/AKt6S6kfwi/aU0zx/N/ZWpQtoPiGP79hcv8Ae/3G6P8AhXprbZY+in3r5K8ZPHHMmmfEjRJdLvY/3dtqcKf6PJ/uOn/oFbnhfUPG3hq0V/C/i6117S+kcOqfvtn/AG2T568Ph/xOxlD/AGfNIe1cOsfdq/8Ab1OXL/4FH7jvx3DNKp+9wk+Vdt4/9uy/zPpvgKf8KRXBHTj3FeCp8bPiZHHsk8PeH5pP78NyyJ+rVV1Hxz8U/Ea7JL7w/wCHYcfM9pE9xN/4/wAV9VU8UMuUb0aFSUu3Jy/jLlj+J5ceF8V9qUf/AAK/5HrnxE+Keh/C7RftmsXkVrHj93HndLOfRV6mvn/4jfESb9oC70+yksZPDesWs323RIb+QPBqv+w/9x/7lZRu/DfhPXvtFxdX3jTxVM+I/wB59rkD/wDsleg+CvgLrfxL1y11vxr5djY2T+dZaNC/8f8Afmfua/Nc1z3OeK639mYWFqf2oQ95f4qlT7Ml8UYx69z6TC4HB5XT+s1fj6S/+Rj9rz5vwIfgX8MNY8a+NY/E/irTpNNj0n93punzJt2zY+ef/P8A7JX0JH0X2pqQhFHGOMU5R2H3a/cOF+GaOS4T2NOTnOXvTnL4pS8z4bMMwni6vPP/AIBJRRRX1RwBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFBooPSgDi/i58JtN+LOgx2t5vhntn86zuov9daSf30PrXi/ib9m7x1p+ow6pHf6Pql1paOibUeCe+i/wCeb/wV9LSlQvpRt8uP1H8q+D4m8P8AKs5l7avzQn/NCTj8Pw/3XynsZfn2LwceSn8P9XPkXT7uz17XftVjf33h7xFajyJEV/Ju0/2HT+OtTxNca94h014/EvjG8utNxh4tiWKSD0fZ9+vf/F/wr8O/EOOP+2dHsr+SL7jugMifR/vVhad+y14F0i486Lw/atIBx9pd50H/AAF2Ir81reFeeUpypYetCVOXxe/Ujzf4qceaMv8AwI+np8VYCa56lP3/APDGX/kz1R4fp/gvVvjXYNpfhe1gs9DhTy5r2eN1gk7eSn9/6131n8G/iVZQLHDqXhGNETYiiGb5P1r2yxtVtLZYY4o441+VFjH3atbcR4X8ea+qyvwnwWGgp4qrOVb+7Lliv7sY9InkYrizE1HywjHk9OY8P/4VD8Tv+gt4T/78Tf40f8Ki+J3/AEFvCf8A34m/xr3TmjJr2v8AiG+W/wDP2r/4Nkc3+smK/lj/AOAo8B1X4I/ETXLCa1utS8KyW8ybHTyJsfzrg7zw/cfDWBfD/jCCFrNk2W+oKC1rOn9wsf8AVyJX1sTkfeqnqeiWmt2MlveW9vdW8ww6SR7lb8K8HNvCXBV4Ophas1W/vPmi/wC7KPY7MLxVXg+WtG8O0fdPmvQ7vxR4e0xLfQ/GmpQ6dsyizJDdbE/2Hesaa5s/DmqSbbi+8ReJ9TfZsZ/Pu53/ALn+xHXtt7+yZ4Dvpmk/sNYvM+8kF1NDGf8AgKuBXTeDPhh4f+HNrIujaPa6f5nDug/eP9W+9XyuH8LM8qThTxVaEYR/v1KnL/gjKMYxPVqcVYGEOenT9/8Awxj/AOBSWrPE/CH7PHj+wa61D7Z4btrrVgkkyyxySSQf7A/gOyu6+Fn7Psvh3xQuveIdUOuapboY7bEPl29qPVE5+b3r1pAAvTr2FIV2j0r9Eyfw1yfL5QlFTny+9705Nc/83L8PMfOYviHF14yi2ve8vwJR0oxigUV+jHhBRRRQAUUUUAFFFFABRRRQAUUUUAFc/wDEa3vr3wbfW+nRLNdXCeWqeZ5eUJ+fn/czXQUHpQB55bfDvVPEGkw2er6hHZWMKRp9ksV67P7z/gOlXfit8QtN+A/wuutZvGdbPSoFjjQN88zcIiD3NdfJg8k9q+fPjzMfip+0x4R8GuN2k+G7Z/EV+v8ABM4YRwIffOf++67cvoRq1vf+H4pHi59j5YXCWpfHP3If4pf1cg+B3wtvdQ1hvHfjQfafF2rJ5kEL8x6JB/BCifwfXr/4/XqtFFdOIxEq0rvY48vwNLC0vZx3/wDS/wC8FFFFYnccb+0B8U/+FO/C3UtaSL7TfR+XBZW//PxO/wAiJXzfL4Kn1jx7JY33h+4+KXxBSFLvVnvLzyNM0jf86QJ/yz/4BXs37Z2nXMvwht9VghkuI/Der2uqzwp/rJIEk+f/ANDrifBfxh034E/EnxFqmsfaG8I+Onh1LT9atoHnt4/3f3H2V9xkMZU8DKrho803zdbX+H3dGpaJuXL9r5H5/nzjVx8KOJnyQ/8A2ve/9t8jnfEviLWr/wAf3WsW1heeD/id4X0/f/ZzzJcWmt6ej/OiP/H/AJ/4B7T4S/a28B+I/C9nf3HiLSNNmu4Ukms7m6jjkgf+49eWeJ/jBZ+OfievxDgtZ7Xwf4J0mdIb65TyP7Xmn/gTf/yzrN1fQPH+n/DCbxldeEfhHb2Mdl/aT202nz/a402b/wDc8yurGYGliKVKGIjyy0+1s39nX5S/u81jhweOrYStOeFlzw/w/wDk39fFyn0l4N+J3h/4ipP/AGDrWl6p9n/132a6STy6+V/h1z4F+FH/AGPcn/o+eu4+BNtaRftTWtxY2NppcerfD+G+mhtE8uPznuk/grh/h3/yInwp/wCx7k/9Hz1OX4SGHp1oQ/u/+k1DTHY+eLlRnP8Avf8ApVM+ofGfxi8MfDzUI7XW9f0jS7p08xIbm6jjk2Vwnxb/AGtfD2j+DJP+ET1jR9e8TahMljp9nDOkn7932I715j8T7208P/Fb44eIbjSNM1i+0O10j7EmowefHHvg+erer2PjL4MabY+LtZ8NfC/+w4JoPtsui2c/2uzgf+NN/wDv1x4fIcLTlSnP35Pl7WlLljLl/wDJkdmIz7GVFVhD3Ye9/wBu+9KPN/5KV/Baal4c1fxF4c0PQbj4jeItQCSeKr68vEg0/e6f6j5/99/k/wAphaLd3Xw0v9Y1Lwppl/4L8VeGE+3a54WmufPsNUtf43T/AOLjrtvht8XtN/Zv8WeKofEq3EPh/wAT6m/iDTNdtoHuLedJ/wCB9lYPjb4nQ+LPFHiX4lfYJtP8O2fh9/D+mPcp5dxrczv5nyJ/zzr2+fESqyTpe5Ll97X3np7tr8vly8t4/I8KXsoUYVadb3483u/y/wB7+b5/aPp7wX4qtvHHhPTtYsP3lrqdql3Dv/uPHXjXxkj839rjwijf6v8A4R66/wDR8dei/s7eFrnwR8EfC+l3yeXdWmnx+en/ADzf7+yvPfjD/wAnd+Ef+wDdf+j46/NsbCMK04R+D/gn1ufVJzymE5/H7hpapEkWqXCL/q43eq37PH/J6eof9ian/pYau6z/AMhi6/67vVH9nk4/bS1D/sTU/wDSw1wnyuSv/hSo/wCI5j9qPx5J8SP2hNR0HXNUsdL8F/D2bT9RkQhR9qunR9jvMfuff2bO/WsX4jaHY6V418M+O5NJtPFGj6P+41DTpYUu45LV/wDlvAn+r3p9+uSudO0+b4maxa3C/bNFm+K8CX808IXzk8750m9Y/P8A+eldf+118Go/2cNb0248Ey6hoOk+K7W9tHtluXFjBe+Xvg2b+IZJP3nI4+SttVocON+tYl4nM3/y7n/7d7v/AG6dv4s/aL+BPi3w3cWPiLwrLp8TRM9tHf8Aht4Xu+OfIZUzv/FTzXjmj/C7WvEXg/U7yNde0VtLaafwcZbzytXsEeOT9xM6Z/d/c/d/6yuM0K+uPh/rcFx4f0HxBYz3FlHafY9bSR/7U1R5NkexH/1kn+3H/wCOV7Z8UPAvjz4Oan4Pm1Lxlpt+de1pLCfS7XSI408ny3kd/Od/M+TZ/wCP0/hRz1sfis2pfWKtH+H1h7p3Xif4wx/Gj/gnL4g1b7V9s1ODQza6tiEwul4kaGdCnY5zx7ivcPgH/wAkO8H/APYEs/8A0QlfJvw0nW6/YI+MskMfmQvqmpOl78//ABNOE/efP/37/wC2dfUPw08Sw+Df2cPC1/OjyR2+h2RKp/1xSuaofqHDWKniKsa0/wDn1H/0qR3zzLEvzMq/Wn15L4p0/UfEOiWWu6pcx7ZLqD7NaWz+ZHAm/wD8iSV3fjbx3Y+A7SGW889xcP5aLEmaxPtjforJuPFFna+Gf7XaRhY+Ss+/b/B1qTTPENrqegR6lE3+iyR+cHZe1AGlRWV4U8W2fjDSftdl5nkbinzpspnhfxlY+MBdfY3kf7HL5cm9NuDQBsUV5R4Qh1jQtJvNa0+4+1Qfa5/tNjLJ+7kTf99H/v16F4T8UW3jHRYb613+XJ0V15Q0AeGf8FP/AA3Jr/7E/jKS3x9q00WuoxP/AHPIuY5Cf++A9eteB/EcfizwhpOqQ/6jUrWC5T/cdN9Zv7TXhRvHvwB8Z6IFDyapo93aoP8AaaFwv6muK/YO8Vjxd+x78O7vf5nl6PDau/8A1x/c/wDslcyX+0f9un1Sk6uQxX/PurL/AMnjH/5Weun5RSAml715/wDtG/tCaN+zR8Lr7xRrXnSWdjsVIok/eTSv9xErec4RhzzPEwuFq4mtDDUYc85nfclOetBXKYHy184/Cz9tLxv4t8daRpfiL4K+MvDum63N5dvqMcv26O3/ANudNqeSlO+Of7c+sfDv4i614b8K/DbXPGjeE7NLzW7yO6+yQ2SPH5ibN6P5x2Z6Vn9dpcnOev8A6qZl9Z+qQjHn+L44cv8A4Fzcv4n0djmue+Is/l6Akf8Az0mrO+BHxm0z9oD4WaP4u0fz/sGsxb0SVPnR9+x0f3R0dKs/E+bMNsn+28lbU583vwPPo4erTxnsa0ffg/xOB8W61H4d8M3+oSnENjavK5/2ETfVP/glr4dk0P8AYk8GSXGPtWrLdalO/wDfae5kkB/74K1xn7ZniD/hFv2W/HF1/q3/ALHmtUf/AKaTJ5P/ALPXvv7MnhM+Af2d/BOikBZNL0SztnH+0sKBv5Gsqn+8f9un1mcVHSyLl/nq/wDpEZf/ACaPQaKB0orU/PSubSL7R52xBMybN+356sUUUAFFFFABRRRQAUUUUAFFFFABRRRQAYoPSijNAGdq2iWuv2EltdW8NxbyDDxyoHVh+NeY61+x74R1G686zF9odx/z0sJ9hP8A30GFetqeaGHPUflXg5pw3lWZa47Dwn5yjr952YbMMThv93m4nirfshzQj9z448UKvo0wkp1v+xfosz7tW1rxFri/3Lq9JT8hXtBBVaBlq+fj4a8Op3lh+f8AxSnJfdKR3f6wZh/z8/I5fwT8KdB+H1t5ek6TaWPHzNHH+8f6v94103Xoop4fPcUjfN719hg8DhsJS9jhaahH+6eRVrTqT5pyuSDpRQOKK7iAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAMZoxRRQAYooooAMYoxRRQAUYoooAMUYoooAMUYoooAMUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAEL8svvmvnzwODqX7XPxWu5P3iWaaZYwew8nzH/APH6+g34Zfxr578L7tD/AGy/iVZyHa2uWGmalAnrGi+Q/wD4/ivZyn4K/wDg/wDbonyvEn8bCf8AX3/3HI9OooormPSCiiigCK7s4721khmSN45E2Ojp/rK8C8f/ALO+tfBbRNX1r4c+INQ0+1t4Xvn8P3MP2uzk/jdIN/8Aq6+gqCMiu7A46rhp+78H8vc83MMto4uF5/GfKera9pfxF+LXw38S+IGkvfBev23kWts83+h2Gqf7afx/3K9z/adGf2ffGn/YIn/9F14j8VvhtY/BzWtU8P65FJ/wq/xnN59rcp/zLl7/AOyR/wCf79ReO/jfqvgv4MeIvBPjrzLi+n0maDRddh+e31tNnyeY/wDBJ/n/AH/tMRg3i62HrYT4Y/jHmv8A+BR2l6c2x8Ph8csHDEUMT8U//SuX/wBJl9n7jd+Bf/Jyfh//ALJlbf8ApSlcR8O/+RE+FP8A2PUn/o+eu3+Bh/4yS8P/APZMrX/0pSuI+Hf/ACIfwp/7HqT/ANHz11U/hq/9u/8ApNQ44/DT/wC3v/SqZc+PpJ1/9oLHTydCz/34r6jMVleeANmqJbyabJZf6V9o/wBXs2fPv/2K+Xfj0ca5+0J/1x0H/wBEVv8Ai74jXX7SGgJp2mzXGgfDfT4E/trWrn9x/acaf8sIP+mf+3/+w/PmGX1MTh6DXuxi43l2/dUtv738p2ZfmVPCV8Rf35e97v8A3EqHO/D3xvN8Kvg74t1zQftn9k6xqf2Hwdp1y7yeX8/l703/APfez/pnXrfgH9l2aTxLZ+IvHmv3nizWLDZPa2zxxwafYP8A7CR/fk/265z4IeEP+F3ePNP8WNZyab4E8KJ5HhiwdPL+2Sf6v7Vs/wCef/POvoSvLz7NJ0qsqdB+9L4v5v8ADzd7fF/eZ6nDuUQrU/rFde79n+X/ABcv/pPkFeF/GH/k7vwj/wBgG6/9Hx17pXhfxh/5O78I/wDYBuv/AEfHXx2p3cVaZfb+/H/0o1tZ/wCQxdf9d3qj+zyM/tp6h/2Jqf8ApYavaz/yGLr/AK7vXKfDn4laD8MP2ubq88QarY6Na3HhOOCKa7nEaO/26T5BmsD43LakIZhRqT/nM/8Abc+DI8FfEnWPEx0O4k8E+J9Hjt9audPGZbO9Sf8Ad3Tp1/jQZTk4NZXibx/40+Nnhzwz8P8AxJp7SWen3KX2ra5EfMttZtIceSB/tySD5/Ty9444r6M8TftH/CDxf4eutK1Txl4PvtP1CLyp7efUI/LlTuDzXzt4k+HXw58K6ss3w1+NHh3wjZzx+Te2lzejUom+f/XRiSX/AFnaqpnfn+W+zrTrZdWhyVvjhzR/r+mTj4g+Gfg5+1XZ+IPE0HnRN4ceHT2Sz+1TrdRz9ITg/Psd65/4s/F3WPjB8W9K1J7O3stWvp00TwvoF9L+8sPtQ+e+uhH+8j3x8AVYsrebXdamg1b49fDvTrG0jf7Fe6asUl3dyb/kedJDsT5P4I3r1X4Bz/A34G2UN0PHHg3WvEheSafW7y4txeSO/wB85HKJ7ZxVHnZfg8Tiqf1KpOFGjz83xR/+SLvj34VSfBD/AIJy614XuLiO8u9L0GZJ5kXajO7b32/7HzH8K9e+AsQuPgT4QVl3K+i2gZW9PJWvIf2tv2mfAPiz9nXxlpul+LvDt7qF5p0kcUMN/HI7v2AGa9j+A3/JDvBy/wB7RLPH/flKzn8B+kZb9XWY+xwsrwhSjH/yZmd4h+E1xBcxjRbrybKS6Seaxd/3afPkunpXdajpNtq9v5N1bwXEf9yVA4/WrQ6UVzn1hD9kR4PK2r5ezZt206KBYIlVV2pH91VqSigCG2tUtIQsUccKf3VWmxWkdruMaRx+Y299q/farFFAHmvh74aapqDTWusTCHR47p50s4n/AOPv58/P/se1ehWdrDp9skMCJFDGNiKg+5Vig9KAILpN0T/7p/lXzF/wTHnXRvgLq3hVf3f/AAhPijVtF2/3Nk5f/wBrV9OOxJYeq18x/shKvhD9qT4/+GVO37N4gttbRf8Ar8tQ/wD7Ia560f3kZH0uT3q5XjaK+zyT/wDAZcn/ALkPosncOK8e/be8FeBfiF8DbrSfiFrlr4b0rULiGK01Ga6jgMFxn5MF/k7P/wAA317A3Mfy/hWD8Q/hroPxZ8LTaP4m0ux1bS5x+8t7hPMjP+3W1anzw5DgyvGfVcXSxPNKHJLePxHxD4i+JvxC/Yx8T+CYbf4waV8U9A17VYNM/sqe3hF68D4+eORHd3P+2X++6V7d+1V4st/jr4c8QeB/CfxVsPA/iLQYfM1qCW0+a4tHh+5vfZsT5/vxl9ntXXfC79gv4R/BvxSmveHfBtjDqkL+ZDczzTXZt3/vx+c77P8AgFXvjH+xn8M/j1q1vqXizwrZ6nqECbEuVnmgd0/uO8Lpv+j15tPC1IwnD/5I+8xPE2UVMfRxSjPmgn7/ALKknKWluan8GmuvNzfa6HE/8Ev/ABUvij9ijwr5emR6YlgJ7ILF/q59s775v+2n33/299esfEuX/iYWqf7HmV0HhLwnpvgLw/a6Vo9lBp+l2KeRbW9unlxwJXKfECbzvEH/AFzRI69LCw5IQgfLV8dHG5xVxlGPJCcpS/8AAj5y/wCCgqrrXwT03wz/AB+MfEemaQn/AE033Ub/APslfbVpH5VlGq9NoxXxj8fLJfGH7T/wF8Nsd32jxJPre30+xQb/AP2evs+Fv3a/TFYwV685HfxVUcMBgqHlOf8A4FLk/wDcZOOlFA6UV0Hw4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAzgrRwBS4wlZfifxLa+EtGmvLyZYbaBMu57VhiMRTo0/aVPhRUYylLliXJLgRQ73bKjvXF638etB0+V7e1e51a4QfcsYfO/8f+5+tcg0GsfGe78zUZJLDRf9Ylij7PNT+/M39K6O0tNC8KW3k2tqLny+33I6/N8ZxbjMW+bL+WlR/nn9r/DE9ynltKn/AB/en2j+rI2+Pt/KP3PhW/ZfV7mNKdb/ALQi2w/4mWgatZr3dE85F/Kpv+EpcfdsbFE/65U8a/BcD/SNPtX/ANuP5K8qnnWZc/uY7/wOMeT/AMljzHX9Tw//AD5/8mN/w18QdJ8bW+7S7yC7I++oOHT6rW4VLRrlV+ma8p1/4aafr0i6jo8klrqMHzpJH+7nj/8Aiq0/hr8UbhtWOi+IPLj1LGba4T/V3yev+/6ivqMp4un7WGDzOCjKfwzj8E//AJE83EZbDldTD7dvtHpY6UUBsiivvDyAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorJ0fX7LWbrUIbS8tLqbSrn7HdrDMkj2sxSOTZJg/I/lyI+087XQ9CKANaisnQfENn4u0K01PTby11DTdShS6tLq2lSaC4hdQ6SIy8Ojrggjr29a1qACiiigAooooAKKyLbX7S58Q3Glrd28moWcUd1NarKvnQQyNKkbumchHaCbYTwTG46oa16ACiiigAooqnYahDqKbreRJk3um5W3YZGKN+XSgC5RRRQAUUUUAFFFV7/AFGHTLKS4uGWGGFN7u38AoAsUVyPgD4i/wDCa6xqEP2b7NBAqPbF/wDWXCH+Oumtr6C7mljjmjeSE7HVW+4aALFFYp8baePFK6KZv9NaPzNn/stUfG3jyTwje2MK6ZeX3219m+Hon/2VAHUUVzvjyXxBFaWv9gQ20knmfvvPf+Cruu6beax4Ymtork2N9LFgTRf8s3oA05ZREhZvu1W07VrfWLfzrW4guYf70T+ZVK20NpvCY06+uJLqSS2MM0x+++7g0eEfCVn4K0j7JZ7/AC9xd3b78jUAR+DvHdj46t5prH7R/o7+W6zR7DmoNG8d/wBqeNb7RfsdxD9hjD+c/SStu00+GxRlgijhV23NsXZmrFAHMm514+PWT7ND/YPkcS718zzPpXj/AO1Naf8ACq/iV4Q+IyjFjZSf2HrL/wBy1n+5If8AZSTk/WvoIjn/AHqw/G/g6z8e+Fb7R9RiW4sdSgaCZG6MprqwGIVGqpT+H9HuePnWAlisJKlD4170f8UfhMOKbzo96/vI6K8X+HnjC+/Zz8SQ/D/xlL/oH3PDuuSn/R7yH+CB/wC5JH/n+Df7QDkV3YjDypS5o/AzzctzKGKhZ+5OHxw/lkFFFFc56QUUUUAUPEvhux8XaFd6bqFvHfWN4nlzQzJ+7kSvnr4hfCXXf2fvDOoPYx2njP4eQxyT3Wi6u3+kWCf9MJH+/HX0oTgVxP7SFhNqvwH8YW9rDJNPJpM2xET95J+7r1snxlalVjR+xKX9PyfmeHnWX0K1Gdf7cDxP4oa34Tg8XaDrVn44vPh/r934fgjtkSy+0W/2KR96I6bPL+//ANNP4Kr6j8OtD0L4F+FfL+JGn2MOk6u+pWutJapJHcT75PkRN/8ArP8A43R+zBrWl/F/45WN1bWv9pado/gaHS715rb93HdefG+z565H4aX1rrd/4B8B/Y3fWtD8Wzz6hYva/u7eFJJJP/Z6+8p0ZQ/cpyTpWlL4duWX93/0pv4j895oyftn9r3IfF/d/vf+k/ynXeDfFPgrwv4C+IXiGPWrv4j3TJavrX26H93cfwQJ86bNn/fddZ4V/Z7174xtZX/xDls7Hw/b+W9l4X0t/wDRz/c89/4/9yvLv2jtWtfA/wAQPi5oM9tcQ3fiqHSP7Ft4bX/j72IiPs2f7dfYmio9to9orfu3jgRHrx86xVbDUIYil/y9+090uSOkemjfLpHyue1kmDpYqvKlX/5df/JS+L/0ontbVLC3jht0jggt08tERPLjjSpKKK+Fu27s/RI6KyCvC/jD/wAnd+Ef+wDdf+j4690r53/ab8ZWfw5/aQ8K6xqj3EFjHol1B5yWr3Hz+fH8nyJS1PmeLpOOA55fzx/9KOq1n/kMXX/Xd6yr/QbPVJN91Z2d1JH9zzoEkrm5f2ufh7dXDs0lx5kj+Y/+hX3/AMRS/wDDV/w9/wCelx/4A33/AMRXP7OZ+cVMTQn9qJuf8Ibo/wD0CdP/APAVKP8AhDdH/wCgTp//AICpXP8A/DWnw6i+9Ncf+AV9/wDEUS/tX/D3y/le4j/7cr7/AOIp+xqLczjUwr2lE6D/AIQ3R/8AoE6f/wCAqUf8Ibo//QJ0/wD8BUrkv+GoPBP/AEFbz/wV3f8A8RR/w1B4J/6Ct5/4K7v/AOIpezmHtKNviiT/ABp8JaVbfB/xM8Wm6fHJHpc8iOlqn7v5K+uPhR8nww8P/wDYNtv/AEUtfEfxV/aC8K+KPhv4g03T7+8nvtQ06eCBP7Luv3jun+5X3B8Mo3T4d6CrrsZdPgDK3Y7FoqfAfc8BSjLE1uX+WJ0FFFFYH6gFFFFABRRRQAUE4FFB5FAELNk+5FfMOjTN4L/4KkeIbX7tv4y8FW2pf781tcGL/wBANfTzAKc9xxXyv+2rqcnwO/aJ+G/xXms72fwvpMF7ouu3FtCZnsY5lHkyuv8Azz8zjI6Z/wBuufEe6os+k4Vlz16uFT/i0px9ZfFFfOUUfS1FYHw/+J2g/E/w/b6poGsafrOn3H+ruLSeOSM1vg5ro2PFnTqUZ8lQKKKKCQrzvxhJv8RXX+/5deiE7RXjPxP+IGkeAor7VNc1TT9Ms43ffNczpHHWlz2Mkw9SdbkpnmPhlP8AhM/+Cn/hy3+/H4P8GXGof7kk8wh/9Ar7IZNzfpXx9+wMZviz8eviP8VI7O6j8O6jbWWiaDdTw7Pt0cO7z5EXtHv2c98Y/gr7BMm2uPDrm5qn8x6HG0ksZTw9/wCFCEfSXxSXylJkg4ooByKK6D48wfFfjfT/AAfPYreeYrag/lx7E388f/FVo67rtn4c0+S7vpo7e3j6u3alvNJttRmhluLeGaS3bdC7JuMZ9RSa7oVn4j09rW+hjngk6o9AEtpeR6haRzRuskMyb1Yfxr/k1YrD8T+DIfEXhObSVk+zQSRrGmxf9WFP/wBap9C8Pf8ACO+GINOt7iQ/Z4vLSV/nNAGrRXO+A9G1nR7S5XWL+PUJJJN8bqPuCqvgbxJrmuz3f9raR/Z0MZ/cuW6+3/2VAHWUVzg+INvH4+/4R94bhLjyfNSUj929X7vxXp1lr0OmS3Mcd9cJvjib+OgDUoqpf6lb6bF5lzNDCm7ZvlcIPzrG+I3jGbwXo9rLa2v2y4uLlII4geXzQB0lB6Vm+G/ENt4p0iO8s5PMhk/8c6fLWkelAEZbivHPiJqX/CwPiEbMfPpfh85ZP+e9z/8AYfzNewyHbGfpXhPw2n/tDRpLxv8AXalczXT/AO/vr8x8QsZUVOjgltL3pekf/tpRPeyOmnKVb+X9TpBJgdaKKqapftY+R/zzkfY9fnVfEQpU+aZ9EWVGDTqKqapqD2phRfv3E3l1FfEQpQ55k/EW4pXi+7+7rL8X6F/bmm7Vfy7q3+e2mX/lm9alBGRWlZRqw5ZBCXLPmOq+E/jIeO/B1vdSDy7qP9zcp/clTqK6scmvLvgQ5tPFviax/wCWKyQ3Sf77p8/8hXqO7aK/auEcwljMqpVq3xfD/wCA+6fH5jRjTxEowH0UA5FFfUHCFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB5/wDtCfFv/hTfwr1DW7ewk1nVC0dlpGmJLtk1S/mcR21un+/I6ZYfcTe54Q18n/D3xPrX7L+i/GBdW0HxR4f8Qal8PH8XtNrE9k1zrmtwfa0vrqP7LdTxr5klzpyJH5m9PkT7gjr7a1jQrLWbqwmu7O0uptKuPtlo00KSPazFJI98eQdj+XI6bhztdx0Jqn4j+Huh+M5lbWtF0nVZPIltQLyzjuP3Mkkcjod+fkd4IXKdMwp/cGAD5YuPGPxK8DeNofh/4Ds9ah0X4T2Xh7Qk+zf2Oml6g7pB5/21r2ZLvy/I2JB9kjQ+Zv8A3kn+rjzPHg8d/HHwNpMmrfEjVLXT/GHxXfRtEsNK0zTkji06x1m7njd3ngkeaTyNP39dnlxpvjk/eb/rDWvhB4T8T+NdP8Tah4Z8O6h4k0lNtjqtzpsMt/Zf9c5nXen3ugPejU/g54U13wrHoN94Z8P3mhwzCaLTZtPhktI5N/meYItmzdv+fp1JNAHC/GfxJrsHjfwH4G0zxJeaDceJor64vddjtbWTUHjso4/3UCSQvb+fJJMJOY2+SOfZH3TyX4nfGnxZolzJBb/FP+zbjQ/F+g+BtLH2bTt/i+9vv7MnmnnDwP8AJ5F+PktfIx5Ejg/Onl/TXj/4V+G/izoP9m+KPDuh+I9L8wTfY9U0+O7g3Do+yRCN9UZfgd4LufEw1x/B/hltZ2wL9vOkwfadkEiPAN+zd+7dEdOfkMaEYxQB86/8Jt8WvEXwu8ReL7fx1d3Fm3izV4rXS9Hs9Lhv4PD9lql3H59q11A8c115ccY/eYQwZ/5b/vD2H7UcU3xM/YfsLTS/FWtSL44/sLR/7VSCCC41SDUru0tJJJI3h8tPMjuHd0RE7gYHFes+KfgN4H8beGrPRdY8FeFNW0fT5vtFpYXmkQXFtbv/AH0jdNiP83pWr408BaF4/wDCk+g69oul63otwqCbTr60S4tJdjb03RuChw6qQCOoFAHyrcTeLPDHxx8ZeK9L8cXW2z8Z+FPAfk/2dYyTeJUT7B9re6k8jHyJqN98lr5GySOT/cqnq/7T/ijVX0fxF/wn1xp1n4i8K+IfF83h6yh0149B0e2tX+xXBd4Hn+0eZJC++STyN8ckfl/LivrS0+Gvh/T7eOOHw9osUcV7/aKKtlGNl1/z8dP9Z/t/frN0D4G+DfCd9eXWmeEfC+nXWofaWupbbSIIZLnzzH5+/YmX8zy49/8Af2JnNAHjGnWXiL9lj/gmzGtj4i1C78Uaf4btbfTru/gtP9CvZ444IU2RxJG6JcSA/vA8j/xu+c1yXxO8c/FjwPP8Tvs/xQu7qPwP/ZX2XOgadH9r1S9/5df9X8lj++t/k+e7+f8A1/8Az0+n9M+GHh/SPCNr4ds9B0O18P2Mkc1rp0GnxxWds8c4mRkh27EKSIkiEfxjd1GatXPgnSLqW9WbRtNkXUL2DUrnfaR4ubqDyfJnf+9LH5EGxz8yeRHj7iUAfPvhb47eKdb+LfhvWJPEmdI8SeM/EPhqfw39mgFvpunaWl+n23zPL+0ef59nBvLv5f8ApiJ5f3JK5b4NfEPxbp3h/wCEurahr13oPg7xZaaZNcL4b03So7ddb1GeS+ktdRhkg89EnjubWOOS12SeY8jyf6xJK+n7H4QeErDxJrGt2/hXw7b6z4gh8nVL9NMhS41OP/nnPIE3yJ7PmqVp8A/A+neLrHxJbeDPCsHiLS4EtbPVBpMC3trCieWsaTeX5iIE/d4B+5xQB80fsteO9U+Hfhf4a3d9461C60fx7e+IfG+tXGrx6fHGmmp58m/zI4YxGkkl7azu+eNgRPLj/d1meE/2ofiV4i8J+KfH/wDwlLSeGvB/gBPHQ0qLTLWOTU5p7vWbi1tXn2fJB9hgtY3/AOWn+rffG/meZ9VD9nf4fy2trbnwL4Q8iw1H+2LWE6JbeXbX3/P3GNnyT/8ATQfP71p+HfhpoPg+zmttK0PR9Ntbi2jtJYrOyjt0khjQRxphB9xI/kROgHSgDy79kvX/AIkah4h8RW/jj/hI5LGKy06azfXF0SO8N1J9qN0kaaXNIi2oCW3l+f8AvPnk/eSdvdq5f4efCDwt8IdHmsfCXhrw/wCF7G4l8+a20jTobGF3P8ZSNAC/1rqKACuI+K2g6lrU9k0Nv/aGmW7b7qxSXy3uPSu3ooA838PeL7PW/jBbyWqyW5m0+S1mt5o/LkjkR99dF4Z+Hdr4Z8Salqkc08s2ou7Or9Ey+/itqXRbOe/S7a3hN1GPklKfOv41coAoy+HbOXWF1BraM3sabEmx84FXqKKACiiigAooooAKKKKADFBHFFB6UAcv8QfhlovxR8OzaXrmn29/Y3A2vHIOU9GX+6w9a8Xf4M/Ej4CDb4Qvrfxt4djH7nSdWm8m+tE/uRz/AHH/AO2lfRhzjjmopIcxYbb1zXZh8wrUIuC96P8AK9jxsfkWGxUva/BP+eOkv/tvnc+dm/aqXQMp4m8F+NvD08X+sdtMe4tx/uTx/fp3/DZ3gf8A5+NY/wDBRP8A/EV9EmFX6ru+tRNaR7v9XF+Irujj8Jb95R/8m/8AtTg/snM4fw8TH/t6H/yMonz3/wANneB/+fnWP/BRP/8AEUf8NneB/wDn51j/AMFE/wD8RX0UYVz91fyo8lf7q/8AfNH9oYD/AJ8y/wDA/wD7Un+zM4/6CYf+Cv8A7ofOv/DZ3gf/AJ+dY/8ABRP/APEUf8NneB/+fjWP/BRP/wDEV9FeSv8AdX/vmjyV/ur/AN80f2hgf+fMv/A//tQ/svN/+gmH/gr/AO6Hzda/te/D2w8zyH1CHzH3vs0SePzH/wC+KIv2vfh7FdyXKvqEc0ieW839iT+ZJ/45X0j5C/7NHkL/ALNaf2lgv+fUv/A//tTP+xc1/wCgiH/gr/7ofNsv7Xvw9uriOaV9Qknt/uO+iT+ZH/45Vj/hs7wN/wA/Osf+Cif/AOIr6L8gf3Vo8gf3VqP7RwL0dKX/AIH/APagsnzX/oJh/wCCv/uh86f8NneB/wDn51j/AMFE/wD8RR/w2d4H/wCfnWP/AAUT/wDxFfRXkr/dX8qPJX+6v5Uv7QwH/PmX/gf/ANqaf2XnH/QTD/wV/wDdD5xH7aXgP+K51iP/ALhE/wD8RR/w3F8Lv+hm/wDKddf/ABFfRhij/wCea0eVH/zzWl9cwP8Az5l/4H/9oDyvN3viYf8AgqX/AMsPnJv2yfCF+v8AxJ4PEfiCT+BLHSZ3kk/772UqeIvit8W8R+H/AAvF4H0+UYbUdebzLjH+xa/3/eSvo2OJQP8AVqPoKWZDgY4/Cl/aVCL/AHFL/wACfN+kSf8AV3EVV/tVf/wCCj/8k/xPJ/hH+yho/wAN9a/tzVLm68UeJ2Hz6pqOJJE9ol6Rj2H516uI1VPuL+VPHze9KK87E4mrWnz1ZHuYHLcNg6XssPBRQogT+4v5UeQn9xfyp1FYXZ3ckew3yV/ur+VOAxRRQNRS2CiiigYUUUUAFFFFABRRRQAYqreWMWo2zwzRxzQyJtdGTKMpq1RQNSad0fOHjT/gm18PNd1uTVfDa+IPh9rMnEl94Y1B9PP/AHwP3f8A3ylZ6/sqfGbweQnh34/ahNaR/wCrttb8O218/wD3+4evpwrg01nwf/r1h9Ups9+lxRmMYqFWSqf44xn/AOlxkfM0nw7/AGoLM7YfGHwxvI/79xpVzHJ/44aSP4eftQXnyzeMPhjZx/37fSrmST/x819N4/3aMf7tR9X6c8vvNv8AWere/sKX/gqH+R8vy/so/GbxcdniH4+3kNo337bRPDlvYv8A9/txetDwP/wTH+G/hrWY9W8Qx658QNaj6X3ifUH1Bj/wBv3Y/wC+K+jlJz6/jTwuf/11f1SmjKpxZmU48lKapL+5GMP/AEiMSCzsYtOtkhijjhhjTaiKmEVRVrFFFbnz7bbuwooooEFFFFABRRRQAUUUUAM8pfO3bfm/vVnXfhTTr3XodTlto5L63TZHK38FalFAGH4x8Caf45t4EvlkIt33psfYc1zvxN8SWekeNvDv2yTbb2fn3Unyb/4MJXfVTm0Wzu9QjvJLeF7qAfJKyfOn40Acb4K0zUrnxvcavbWMmj6PeJmaG4f95cP/AH9n8Fd8Tiig9KAIJxvgNeGfDOL+z/D8li3+u025mtH/AN/fXuucqvvXjXjjT/8AhAfiM11zHpfiE/eP3Le5/wDs6/MvEPBzdOjjVtD3Zekv/toxPeyOolKVLv8AoaFwvmismy8Prqeh6huluPtljv8Ak3/JJWxmqtpdf2P4lhmb/U3/AO4m/wDZK/LsRRpTlB1fg+H/AMCPelOfJ7g6wvPtdqkv/PRKhi0pde8SJbs0iLbw+Y7I9N0WL7F51q3/AC6TPHTrS/8A7O0nUr1f9ddTfZoayjKnONJYj4Ptf9u//bFSk7fuyHSEX7deNHNPJbxvsh3v5labjK1BYWn2C0jhX/lmlU/FGv8A/CPaVJKieZM/yQw/89HrejyUMPzsr4pe6bHwIja48X+J7v8A5Yb4bVP99E+f+Yr1HbuFcp8J/CLeBvBttazkSXrjzrqT/npK/U11Y4NfunCOXyweV0qNb4vi/wDAvePjcxrRq4iUojxwKKKK+oOEKKKKACiiigAooooAKKKKACiiigAooooAKKM0ZoAKKKM0AFFGaM0AFJ9wUuaz9c0qHxBpNxY3CtJbXkTwyqrsm9H4PzLyOPT1oA+I/BH7Wviz4cfCPR7PwjotxrGs6h4bf4k3MK+FtU13+2H1i+vr2CwjksfksnkxN+/uPkTfH8knz+X6VrP7curaDb+JP+JZpt1N8OZPEmreLUhR8waVYyXaadGh3/JdXYSF98nyYt7v5B+7x6rf/ss+CbzUdFuI9N1Kxk8P6db6VafYNcv7GOSzg/1NvcJDMi3UceXwk4kH7x/+ej507f4H+D/O8bO2g6fI3xCb/ipC8Qc6sBbi12SeqeSmzZwOXP33ckA+cl+NPjb44a94X8KeJdNaC1v/ABf4fu7e8Twpqvh2N5IPt+qz2OzUPnn8j+yIf36bEk+0J8kdetfsu/GPxX8UvEHiS18XS6HpmsaKU+0+GoNGurS/0QvJJsZ7qSd476GRI8JPBGkbmN/dE2/D/wCyt4N0FrWSOy1y+m0+SeS1k1XxBqGqSx+dAbd8SXU7vs8l3QIeEDvswea1fhl8CPDnwjur2fR49Xe71RIIrq71TWr7VryVIN/lxme6mkkEaGRyEBCfvH/vmgDyLSf2svFV/wCLvC+tt/wjNr4F8X2mr6rZWElhP/akem2UG9L17rz/AC/3kjwfuRB8iT/6wkV5/dftyfF/TvDunQzaHot94q/4Q+y8Xz6Xo3g3W9ZjuPtXmCHS/OtXf7LPIbWZ/Pn+SPzY0CThHnr3jT/2JPhjo7ao9v4bnEmpaRe6HMX1i+k8rT7rZ51pDvm/cQfuxsji2JHl/LCb3zu+Kv2d/B/ivxJZ6xd2GoW9/p9rDZI+navd2CXVtA5kjt50gmRJ4Ud3/dzB0HmPx875AOI/bIOueIvF3wn8OeGf7Nj1u/8AFL6mG1JJJLSCC1sbt/OdE+d/LuHtX8vKeZ9zzI8+Ynn/AIc/a81bV2t/FWpaPZ32qeH/AAr+5FjNdWltql7qOtvptigTzpERJ5LFH/eJO8fm/I/39/0ze+B9L1HxvpfiC4td2raPb3VrZTGV/wDR0uPIM2E+5z5CfN2wcffbPnXir9lDw5pfwk1jRfCnhfSLq4v9J0/RRa6jq97bwzWtlJI8Ef2pN88Lx+fM6TRjzBI+/k80AeM/GT4i/Ezxz4ysfhveXPgnVNci8beHvsl3Z2F1pdpFPDa3esyJPGbqd5kg/s+CT5Hj8zfs+T79fRX7NvxB1v4m/DH+0tc/sptSttX1XSnm06J4Le9Sy1G4tI50R3kMYkSDfs8x8b/v1x37NX7I9h8KYpNW1iC3bxPPr114gWO31S6v49LmuLW3tHTz5sSXT/Z4E3zzpvkkkkf5C9eq/D7wHpPw58K2ujaLa/YtNtPMMMHmPJ5Zd3kf53+f77v1NAHQUUZozQAUUUZoAKKKM0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFGM0UUAHSjFFFABRRRQAUUUUAFFFFABRRRQAUUUUAGKMUUUAGMUYzRRQAYxRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFGKKKADFGKKKADFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAM6rWV4q8K2ni/R5rG8iE1vcDDqe1a23atIK58Rh6dem6VRe6yoTlCXNE8OjW+8Aa8uh6r86Sf8eF3/AM/af3P+ulaGrQf2lp8ij/gFdb8avDK+IPh5fN0nsU+2W7D7ySR/OD+lcdod7/aOgWtx/wA/EKSf+OV+CcQ5L/Z2KnhPsTjeH/yP/bp9lgcZ9Ype1+0Z48Sx/b5rjcPMnt03/J/y2SptLu1vfsVvG3mLp8O9/wDfeuw+HqK3hGz/ANz/ANnrF1L/AJHO5/64pXiVMmrUMLRxk6vPz/3f5ve/m/mNo4iM5yp8vwhf38enWbyyP5ccab3el+EXg2XxTqS+JdUh2xj/AJB1u/8AyzT/AJ6n/bNY2u6d/wAJX4p0XQ2/1N/N51wD/wA8U+fZXtVrax2sKxqu1U6AV9rwZksMbjJYqv8ABS/9L/8AtTzc0xnsKXs4fFL8iyBxS0UV+0ny4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUHpRRQBC7iOPPPWvNvE3xeuzq82m6Db29y1m3lXN7cSfuYX/uKicu/tlPrW/wDFzxLL4W8F3NxbbPtkzx2ttu6CWRwit7hN28+yGvPNB0VNE0iCzjMkkdun3n/1kn+3X5/xVnFaFeGCwsuT7Updv5f1PeynAxqR9rV2NOD4oeLdMlWS4j0TV4lGGit4ZLRz/us8jitiX4+eH5dMgmiluri6ushNPhiLXSOvysjxj7mDxl8Lx1rjfGGtSaTpyx2q+ZfXb+RbI/8Af/v/APAPv1meHPBU2seJv+Ef0+6mhmmj+363qWf3+x/kRE/uO+x9n9xI374r5GjxFmlLE/VcHPm/x+97393/AO291b+vrVcswjh7apHlOm8QftPXPhmRPtWmaHYrN/qU1HW/s88n/AEhk/nT/D/7T0euRMy6fa30GMvJo+ox6jsPuuEf9K8t+EWo2fw8/ar1DSbSz/0XUJrmwhzNjZ/q5P4/v/c/8iV758RPAnh7xXp0l34g0+xhjto/+Ptv3c8H+5MpDp+FdGQ5lnmZUauKo45L2M5RnCUY/Z/vcv8A7ac+Ow2Cw040ZUXaaWt+/wDd/wCCbvhbxjp/jPSo7zT7qG4hkH3kP3T/AHW/utz0NbAbaDXzPp/iCT4Z+Oftmk6xbeIrSdd4nt5Uf7dCn37eXZ8nnoh3o/V/n6V9F6Rq0OtaXBeWrrLb3UaSxOvR1bkGvs+FuJlmkJ0avu1ob/yv+9E8fMsteF5Zw+CWxT8W+KLXwlo8uoXjbYLdcnA3M/X5VGfvV52fiX4q1mQzQrpmjw4+SGaB7ucf7770T8On+3U3xZ1RvEnxAtdNwPsehxLezD/npNJvRP8Av2gd/wDgaVWACCvns6zzE18bOjQnyUoe77v2pfa/+RPUy/L6Ko+0nG8pFvRfjJqHhq4hh8QpYtZzN5Y1G0jeOO3f/psju+xP9svir2p/HyxjmaPRbS41zYPnniZY7Qf9tn+//wBsw9eea3F/wmHiG401n2aXY/8AH58/+vf7/kn/AGNn3/8AfrO8aeB28W/ArWvFF6zLp62pfRLFH2IkO75Jn/vSSfwf3E2fx5r52HE2dKjVhhp88IKUub7Xu/F738v+KMpX+87qmU4FVIOr9rT/AMCOsb9rxYp5LeaHwjDNG/lOjeJMOj/3MeR9/wBq6fw/8fdP1N4V1KGbSluDthuJWWS0nPtMhOP+B7K579jzxYuufCM6elnubSbqa1cu4/e7n8zf/wCP0/4pfDbwnpe+aHUNH8J6vdoWUMyQWt4f7ksP3JP/AEP3r18BmmcyyulnNHGQnCWvJOMY/wDbt/d1+z9k4sRhsGsVLBzpOLXVe8ezIysoKnPFL/ke9eKfs8fEmaO+i0G9+SP547RHk8w2c0fL2wf+NNnzxv8A3K9pYgRNyeK+/wAhzzD5pg1iab/xL+WXU8PG4KeFq+ymch8RPiYvgxo7Sztft+rXY3QwB9iIvd3f+BPeuT/4TrxhcLv+36Csn/PI6fJs/wC+/PrH0LUj4v1C+12TmTVn/wBGP9y2T/Up/wC1P+2lWta1qHQNImup/wDVwJv/AN+vzjMM+r4pzxKqzhS+xye77v8AN/298R9LhcrpwXspQvM3dM+PdnY2zW+vINO1GNd6LFumjvf+uH8b/wC7jNUfEP7SU2jWf2j+ybLT7TvNrGqpYj/x1JK4m20XUUvLNY44JvFfiJ/Ihd08yDTU/wBY/wDwCNP+/j1wPxXW1+Av7WPhy6gN1qH2fR0luWubj95cu80yO5b+D17J8leBjeNM6w+CWJq1uSlGcISnyx5vf/m92XNKMfsx5f8AEdFHJ8FUxHsIR5522PaPDv7Vy6rdbPsmjX396PS9bjupl/4AyR/zr0fwb8RdL8dQv9hmPnQ/6+3lXZPB/vp2qPxL4S0/xzai21TS9PvLUDn7XEkn/fNeEeKG0vwbrNlqHhXxJbXtqrokB+2edPou/Gzfz5j2sjlEdHPybkP+59pjc0zbI5Qr4yvDEU3/AIYS/wC3V/w/y3PJo4fCY393Rg4T+bifT2eabjaa5z4eeNl8b+GbW+VfJmcslxET/qZUJR0/Bwa6MfxCv0jB4yliaEa9H4ZHz1SnOnPkmSA5ooorqICiiigAooooAKKKKACiiigAoor5u/au+OcfhD47eGfC938VpvhZp1x4d1HVrm4gGnPcalcpPaR2sMaXsExk4N2fLgTzHOzHagD6Ror5j+H37e7Hw9Z6X4o8G+M/+Ey0i00ez8Qw2OmJHbprF9Y2t0lpB5kyO7u85TYP9Tsd5/LjHmHtLX9sWwvZ5NLg8H+MpfG0eoz2EnhNEsf7UTyYbed53f7V9k8nybq1ff5//LxGn+sPlgA9oorxfVP2t9H03xTYabJ4d8Xuq3mm6dq12bWAW/hy91Hy/slpdDzg5nczwBxAkwQXEZfYj5rNsP239J1PwLa+IIfCPjFrHXNVh0rw65bT0/4SeaaSeNDB/pWyMfuHOLvyH5QbN/yUAe9UVwPir4z2/g74bWviLWNH1zT5rqWC3g0Z0hfU57uZhGlqiRyPG8hkOOJDHgF/M8tS9eWfDv8Aa31bVfE3jF9U8N+Kp9QbxL/Yfh7whDFpz6p5dtp9pPdTvIl19n2edNIC7z7E/dpxI4joA+kaK+ddM/bgPirx/wCBf7L8LasvgvxF4VvPFerapdyWKf2NBHNHGjyf6V9xMyPIY9/Bj2b/AN55fcfCb9paz+MPjO80FfDHizQZodNg1m2m1aG1SPULKeSSOOdEjmeRN5R/knSOQY+5QB6lRXzrY/tcXHhn49eN9N8R6brbeEdN8Q6d4cs9ZSC0j0vR557K3k/fzPIkzmS4uvJ/dpJ5Z2b9m/NWLj/goB4Z0221G8vPDfjSx0u30j+27DULm3tki1u1e6gtY5IEM/mJ5kk8ez7UkHyZf7mTQB9BUV4n4x/a/t/AmjxTal4E8eR6v9iutWvNEhTT57zS9Ptj+8vZ3S6+z7OgRI53kkydkb7JNnKftJ/tm3Oi/CrxQ3w90vxDrF9DDDpMPiW3itP7N0bUL3y47TeLqZHmdHuoHKRwTdkfBNAH0vRXmPxe/aGtfhLqcOlx6H4j8WaxJZzarPYaLBC81nYw/wCsunM00aBC+ERN/mSHOxH2Pjk7b9u/wzqfii40/S9C8YatptpqWkWN3rlrZwf2XB/aiWb2L75JkkfzPtsKbI0eSM8vGEKO4B71RXmPxj/aGs/hJ498K+FY9C8TeIPEHjCG9uNOg0q0jkBW1NuJvMd3RIeLpH3yEIfLcZ3mNHx9d/bI8MaP8P7DX0t9XaDVpNbjtUeNEITS0u5Jrhzv+WF/svyfx/6RDlE+fYAezUV8++Bv2rv+Ec8L+DtJ8TWOva9r0NtoWl+KtdtLKCKw0vVtRSBIY508xH3yyzR/JBG/li4j3+Wjg13nwN/aAt/j9pNxqul6D4g0zQ1O7T9SvxbfZ9Yj3unmQiGaSRR8n3J0jkG9Pk60AejUV4B40/b08M+BZr64fw/4uvNAsodXnh1y3htfsF6+mW01xdxw751nkI8iRA/l+W78eZjmtDQv219A1KHWjeeH/GmjT6bbabc2NvqGnLHd64mozTw2hggR3kR5JLaQeXOkLoBvkSNMuAD2+ivFfgF8afEXxd+NnxFt77RdX8M6b4Xh0rTYdI1T7FJcQXrpcXU8xktJp0/eW89l8hk48vPyb69qoAKKKKACiivnH9pD4q6pF+0p4Z8GWnif4geFdLOgXWqX8/hXw2msXFzO91bw2iSbtPu/Jj2JfZf92PufPQB9HUV4PP8AteaT4I8cX3g240vx34gvvCuq6R4b1rxDJp9qlnFdXy2gtp3ffEj+Y97HvS3j3xnefLRPLJk1P9trQdN13yf7F8UDw/O2o/ZfEggtTpl42nwzTXWzE32jZiCTEvkeW/GxzvQ0Ae6UV86SftwWfw98M29vrmj+MPEGp6P4b03X/EGp6fo8Npa6fBdLL++nSS6/dunkZeCN5H/eDYJMPs7XTv2pNG1j4q2vhuLSPEElpqGsXXh+110QQ/2bcajawTTz2inzPP3okFxl/L8vfA6eZvGwgHq1FeMfFr9sHR/g/wCOdb0e68PeLNWj8L6Zaa3r2pWFtC1ho9jO88Znnd5kP7vyHkeONHk8v50R/n2UPH/7dPhn4ezaxPdaJ4sutC0o6pC2t29rC1jeXunWc91dWUG+YSPIkdrdfP5Yg8yCRPM3jFAHu1FfLtz+1zq3jX45aLCNL8deBfAOkeHbrxfrWq31vpcCT2iMn2dp0mkkngtHSG73p5cd1v8AL/1aJIa6i/8A269C0LRNRu9a8L+OtFvtOfSAmk3FhDJqF9Dql09raTwQwTvv3yRyZj/16eW+Y+1AHvVFfPfiD9vvR/CWra5a6h4J+I9vJ4YvtP07XHTT7e4j0ae+jtHgQtHO/wBoctexp5dp50gOTs2GOR9ix/bG0/XNLMNv4R8aN4o/tafSF8LiOyOqPPBDHPI2/wC1fZEjWOaF97z7P3iJ/rDsoA9sor5v1D/gox4Yi8OJqNp4V+IGpKnhSPxtdx29laj7Dpbvdo7zSPOIA8f2WT92JC75Ty/M/ebOy1j9qfS7HxPq1uuh+I7jw14Zd49f8UJFBHpOjPHB9okSbfMk7bEwHeOF0jd9jkESbAD16ivNvhB+0Ha/FnWNU07+wPE3hnUtLs7LUvs2tQwxyXNndmcQToI5H27/ALLP+7k2SJ5fzxoa848fftdtqXxF8F6folnq+l+E7zXr3+1fFtytj/Zd5ZadY3c90sG+b7Rs8+FI/O8hI8b3STlC4B9IUV82fEf9u7+xPhl461LSfAfi6HWvDfhhPEGlQ6lDawx6tBPJJDaybUufMjQyIXKSeXOUSQJGZP3db/iX9sqHwNaR/wBpeDPGU2oWv2KPX1tV05k8OzXUyQwRz/6bsaRy6P5du88gjkQ4+dMgHulFeb/GH47W/wAI9a0HT4NB8R+Ktc8S/aWsdL0g23nyR26iSeTN1NBH8m9Pk8zzDn5EID44Pw9+2Rd2/ir4jx654O16DSfC/iRPDmhy2iWtxca7dGGA+QiJdO5kkkld03oiRw4Mjo6yJGAfQlFeEr+3No//AAlGh+H4/CPjqfxXrlzqNk2jRWtq9xp89ibQzRzSed9nT93ewyJJ5nlvH/HvMcbyaP8At1eEb1GmurHxFp2lT6bNq2j6pcWySQeJrVLmC132SRySTuXnu7RI0kjjeT7RHsD5oA9yorxP4KfG7xB8WPj94w07UdD8ReE9I8L6LpezStXWxknuLu5kvHebfazTdIIYBs3j775TNe2UAFFFFABRRRQAUUUUAFFFFABRiiigDJ8R6b/beiXVru2/aoXh3f7ykV414GvsaA2nzqIbzTP9EuYh/wAs9le6nbzXyr8SNTvk/ac8ZR2tytstnBYyRvLdRwRIHg+ffvr8/wCNuHcTj1DFYL44fZ/miezlONhSfsqvU9h8DeIbCw8M20Mt3bxyInzo71m399b6h4uumgljmj8lPnSvPIfG14I9kLaDqj/37CKe4/8AQEonv/EGowSGaxbT7X+N4ikG/wD4G77/APyHX5y8vz/EUaWC+r/B/X+E9tVMJCc63tT0L4Vx/wDCS/FO51CLH2PSbb7L5v8Az0mc5P6V69nPy15H+xLqcmvfs0+Hb64bzLq6a6eZtv3z9rnX+leuB9rdOetfsHDOTPLMGqNT4370vU+Yx2J9vV547Eg4ooor6Y4gooooAKKKKACiiigAooooAKKKKACiiigAooooA5X4l+DD450CO3iuBb3NvMlzDKyeYqunTcveuBh8A+MmvPIaDQ4VRsve+bI6SJ/sQ/fH4yV7Iy4UYrN8S6iNE0O+vdhk+yQvPtH8W1Sf6V8jnnDeExUni6spx097le/9f3dT0sFmFalH2UD588ET3vjLx7qd1ceRLZaG72VtLFH5aSP/AMtn+/8A7Faf9i6H4s8Q3EllrEjahOiecmma9PA8mz/YhmSuO1AXE1npeisI54xbW0kkQbNvd3NzNsTf/sI4311vxJ+Cp8J+EILx9RW+FvIglj+zpCY97ogeF0+5sZ81+D5bVxfsK1ShS9rCj70py/r7Pw/a+H7/AL7FOiqkKdSfLz+7Ff13OYsfhTos3xQ1SG6Opfa7fyb2zlfUrqOfH8b+dv3v8/8A3xXV3/w1sdXs5Le4vvE1xDJ9+KXxBqEiP/5Grn7zWJb3TvCup3k0Y1TT9WfTpZv+fhPnjf8A77TY/wDvpXYa54ot9M0S9uI5reb7JC8+xH+/sSu/AfUlQnO0eSfv/D9mXve9/wCkmdb27nFt7afd2Ocsvgh4Q+H9/a6lth02aN98LXGpTJ/4471r23ie++GGmWdxpuqJceHFcRyR3CfaobSMZ+ZHT95/rNifxhM/cwlZPwq+Flx8RL3ULy8vhFJb7UurjyUeeeV037PnB2IiPHxUOn6bP8OfiF/Z7NC1vdXSWtzsTy0nSZPkm2fwOmK4sLUr4TD0sbhsP9XpTnyQnB/a/vxj0933vTfYMRGFaU6Farzzh01/A7a58P3Xjy9ude0C402O7fZDqGn3GXjeRU42zJ0yjpyUfKbPuVjfEex8S/D3wTda5fT6LbtGypbWEFtJdNM74RE8zenr/crd/Z5uLHSfFXi/Q7GOOGO2e2unhjj2LHJImH/RErU+PFwL2/8ADun/AMEl291I3tCnH/j7of8AgNfbVMDh8VkE80c+SrLmj7kvd9pzcvP/AOBe9y6R8jx6dWrSx8ML9nT/AMB5ea33aHEeGdPh0PwCv9u3FnZPfI73rXEyRxyO/wB+s/Vvh7pur+BrtdOv9a1C1+zOkSJ4ivp4DsT5E2eds/4BVP4UeFZvi94ikupbz7PJ9lhvJ7hk8ySOObf5UMO/7ifI9P13SJvhH8RY/JmjmVjD5romwXls83kujp/fT+/XxOHxFVZbHF1KH+z/AAc/2v6/q57U+R4iVHn/AHvxcpH8Mfh3oz+FLS/02fWbT7dEklx9l1m9td0n8e9Ef+/vrS1z4G6H4slj/tBdY1Jo/ufaNavZ/wD0OaneFp4NE8beJ7Rbi3SFrmO4RN/R5I/n/wDQN/8A20qv8UPExjsobWO4kjtZoZp7loX/AHkkMP30/wCB70rorf2fQy22IpRnCH2OWP8ANy/+lBGNeeI5oS179Sz4c8DeG/DDf2fo19b2d99p89Ei1XfcJNs8v+N/+efyV0fhn4z6h4S1y60/xJcQ3S2/zxzSJ5E72v8AHN/zzfYfvqmzCIX+fOKxNR/Z9uNP+HrXUk1g9zHCZ309bZPsn3N/k7/v/wDA65yE2fiP4d61a61/pNvpcW+GWUeZJHC8G9P+BpWtLHY/KJxpxpfV5OHPHX3Z/wB2Uf8A2455U6GNhKUp8/8A6UehR/CLxL4YtobHR5NH1Kxto/Ji+1PJazQJ/BuKB/M/8critZstam+Klv4ZurjT9Qt9JWG9v5LSzeHZN99Ifnd9/wDA9e7/AA58Qt4o8CaPqjL82oWcU7krtyxQHpXg/j3WZr/UtUuFlktf7b1i5juWi+SQQ2v7jZ/wPyUr2+MMvwWCwGHxGFlPlk4y5ebTl/l/7elKPxc2hw5LisRWxMqdX+pf1c3NcsNC8QeI4I5tYS31S1jeCFLXWHtJ/n2b0/cun9xK4/x78I9Fufifo/8Aay6lcR6hZXNr517qd1cOXR4HhTe7/J/y2/8AH66+2+AFzcfDaG7S6sEupofOXTjap9jxs3+S/G//AIH/AOOVxl5qovPg/wCIYzL/AMgWyTVdOlmfzHt/kd41/wC2bx183mka3JClmeFhBVvfh/e5fe5f/Af+GPVws4c/tMNV1j7vbc7Y+A7cQ7V1LxSUx93/AISPUP8A49XOv+zl4L0uL7RNb/Y4I/k82bVp44//AEOuyXWbcxJia38xx9zzkrjfC/hq6+LPjtVkuI42QzOkrqH+yQpP5ZVEP8bvzv8AaurNaeFqSo0IUI1pz+D4dBUfaU4zqe05Idf6W50UU93of27WPC+qRzNv86W3hdLq0uH/ANz+F9idEdBXoHwz+Ktv4+iZVkhkuFiSaMwv8lwmdpcLjehD/KyPymK8c+IvhmT4LeIobyG5E0q2st2kvlLHJOkOzzoZtoCOmx0rsPCF7pfhv9oOyhtEijutesbjztif6zZ5bI7/APfL17HD+d43A5l9Ur+570YThzfzfDKP+L+X8TzMwwFGvh/bQ973bxl/h3ue5jpRQDxRX78fDBRRRQAUUUUAFFFFABRRXiPxp/aksvgz8VIbHUDrV3Z2+m2sl1p2naR9quJ5r7UorK0eNvND/fSf9wkbl0y+fk2OAe3VwekfC02Hx01vxxcXayNqehWOhWtoIDGbRLee6nkffv8An8w3KDGxdgg75ry/Wv21tT1PxH4L0vQfAPiibUtY8UXWha7pl4dO+2aStrYm6fn7cIC/7yBw6SOmzzP+Wnlxvqaz+3f4Z0O11u8uNF8Vf2Npemavq1nrC20H2PX00tc3yWn77zN6YYJ56Rxy7CY3dPnoAueJ/wBlm71I61qVj4mhtfElz4zTxlYXk+mmeG3njso7BYJoRNGZkFonl8SR84fjFZtv+yR4i8O+L7fxho/jXTYvH10+onWtQv8Aw893p9+l6lgjpHapdRvB5aaXYpH+/f5I33+ZI/mCAft22t7q8+mad8M/itqepR6LB4jjto9NtYpLjTpJJ0jnzNdR+WSYHxBP5c754j4fYtv/AMFCfCGpale2uh6D4y1+3s5dPjS7sbGD7Pez6ja293YwwPJMnmSTx3Mf/XP53mMcf7ygCPUv2Iobr9oPVPHEcnge7u9WvbbVpLvVPBkF/rmn3cNrBbxvaXzy/uIx9ljfy/If5zIUdN/yV/8AhjjxQNO8VxzeJ/h7dzePLpJta0258CSSaBeBE/1n2H+0M/a3c75J/P8An8uP5P3eavSftl6h4l+IXw90Lw74J8SM3iDWNRsfEEV6tklxoaWQkinQ/wClBPMjnktZN8fnI8G/Zvd466bxf8dNe8O/tUeF/AGm+Fr/AFbStU0S61bVNShktR9i2T28EJ/eXKPs+eQv+7d/9XsD/vNgBD4n/Zv1B/hH8P8AQtG8USQ698N5rO507WNYsjqUd7JBayWrNdQxzQeZ5kc0h4kTEmx+dlcnov7Gfifwgun3ul/EaS38Q79eTVNYfQ45Li4j1W9t7t3hTzPLhuI/ssKI+ySPj/UcjZnfs1ft1W3iHwQt/wCMrbxFZQalY614qs9durCGDTrzS4L6MRpboj+e/lwXlkiO8P7/AKo8hPNr4g/ty6np+hXsGh/DfxlH4ptdb0LTP7O1VNO814dQnwJAEvcD92knyO6OjvHvRI98iACH9ha6tvAdr4cHixf7Lb4ZJ8Nb/wA3SPMuGjjgkjS6gfzsRly4MkciTCQRouUwc958Gfgl4g8C/FbxZ4v8UeMP+En1XxXp+nWHk2+kf2bZ6YlnJeSBbdPMkfy3+2k4keRw4kO/DhE0Pit+0Ba/CKLwr9q8O+KNS1TxddPY2GmabBDPdm4+zST+W/7wIvEJQyF/LQkF3RMuOJ8L/t/+GtdNndXmh+MPD2iXbahG+saxa28On281jFPNdQl0md38tLac+dGjwfu9nmbzigDM8TfsM33xAtvFGg+IPGC3XgzxBrGoa6lhZaV9lv0urpJEQTXRneORIN6PGiQR/PBGXMnO+9o37K3jWz1LW9XuvHnhnVtc1LRrLw9HDeeDf+JPBZQSTl4fsq3XmPHOkyb/AN/9+L/nniBLHiX9sG3uvh54taPS/FPgvxFpNpp89rBq2mQ3c7pqU8lrY3SQR3OHSSdHTyZJI5EKfOkdVvif+21Povwo+I3iDw14L8R6tF4Lg1GC01GR7EWGoajaz/ZZINv2rz02T5/1kab0jcx7/wB3vAOXP/BNSx8jw8WuvA+rXmlWM2mTr4h8FR6tZ29u97PdomnQST/6EIPtUkSAvMnlxwI4fywa6W+/Yz16a5XS9P8AHUGk+CbfxpbeModHh8PJ9qeRNRjv3tZrnzvng85HKbI45I/3fzyInlv1F3+1lp3hjwp4sutc0HxJpuoeB9FtdX1ewZLWS4D3Pn+XaR+XO8bz/uBxv8v9/D+8+/szLT9t7RdVn1WGx8K+Ob5rHxDc+E7XZZQR/wBsapBNJHJa2vmTpv8A3cMk/n/JAkcb+ZIjxvGADU+Mf7POt+O/iDda14d8XL4XbXNCPhzWjJpf26WW18yR0e0fzoxBcR+fN88iTIfMT938lUND/Y8t/DnhttHstaWLTZvGWm+JzCLLH7jT4bOO1sv9Z/B/Z9r+8/6Z/cqP4pftGTax+x/4j8YeFU1LQdceO60bTkv4YftGm6v9rfTgjpmSN3ju8jH7xH2fxg8xfFj9uTw38HbzXpL3QfGGoaN4bkntbzWdPt4Xs1vYbR7t7JfMmSRpPLTG8R+RvYI8gfIoA9CvvhlJffHbTfGUmoN5Ol6Hd6LBY+R9z7TPbzSTb9/f7LCmzZ2614If+Ceutat4QXQdS+IyXGjaf4Y1TwnpttH4f8sW8F8YA9w58/fNdGOOZHcFE/ejZHHsfzPWfF37V+g+F/E2oaLbafrniLUrG4srCGLTI4HGpX11HJcJZQvJJGnnpax/apN5REgkR9+M44mL9s+31Txlda839qaX4N8IeC9b1vxJp1xaxtd291a6h9mKvs3nfB/Z2pR4jkKSb/4/kIALGt/sS299+0bq3jyFvAsk2r6hBqzT6r4Ng1HXNMu4bWCCM2moSTfuYx5ED+X5LkP5hR03jZ2P7P3wLvvhN4g8Xatq2saRqGpeLruG7uodF0WTSdPSSOPZ5/kPPOfPk/5aTb/3nlx8fJWzpvxts7X4T3Xi7xFpOreDtP0+F7i6g1R4JLiKNP4/9FmnjcP/AAeW7l+B3rg779uTSdC0rXpta8F+PNHuvD93o9rLp01razXl5/ak/kWhgjguZN/zffj/ANYP7lAHG3P/AAT61nW/CVvoGpfEL7Roej+GtR8JaXZw+HkhFva3hhjeeZ/P3zXHkRyJJJ+7STzA6Rx/OJO8+KX7LWoeMPiPqHjLTfFEWneIo73S7vSftWlG7tLOOyjvI/ImjE0ZnST+0Lpx88ZSR43GSnM2k/te6XfeObHSLjwv4w01LvUU0OfUporV7Kw1N7f7R9hkdJ3d5NnHmQJJBvfZ5m/iuf8A2g/2tLv4E/tAmzfTvEGueGfDvgm98S69baTZwyPbJ58fl3U00zxxxxxx2t7+7EnmSeZ8iSbDsAO3+AHwa1b4Rt4xudc8TXHinVPGGv8A9uXN42nJZi3P2KztRAiI7/u0Fr8nohwxcgyP6jXh+vftPW/hr4ueItGjg1vxLd2c1lpen+H9N0yGO8uL17aS8mZJpp0TZ5EkG/z/ACY48J87vJiuR8RftsXep+LPhzqHh/w/4wv9L1qw17UdT0G3tbJtQ/0Ga3tf3kkk3kQxxySSP5nnpHJ5Y2SSF0SQA+nqKw/AfjKx+I3gXRfEGnM82na7Yw6jamRNjmGZA6ZX/catygArx/xP8IvHEfxz1jxl4V8XeEtJj1zSNP0ea01Xwxcak8SWk95IjpJHqEA+c3r/AMH/ACzSvYKKAPHr39mOTU5tVeTxBv8A7c8eWXja+zZf6xLRbQQWv+s/g+xWv7z/AKZ/cr58+Hn7MviL402zeD/7Y8QWvgPw/wCBNX8J6Zc6v4On0W40qa98iCP5J5PMvZ47RJ0knj2QfvI9nz+ZX3JRQB4z4z/ZQj8YRePFbWPs6+NtQ0eRkSy+W1sbH7Pm1+/8/meXP8/RPtA+R9nz4vwl/Yk034RfGfVvFEdv4FvI7zU9R1a2vT4Shj8Rxz300kjpJqfnF3jj86SNMRo/l+WhchDvl+Iv7Xlj8N/ipqmm3Vv4i16E6rp3hmx03SdEWWcanNZXd/jzvO+dZIEjHMcaRnYXfY8jx9n4c+Ml98Ufgpq/iTwtol5Hrluup2dto2rPBHL/AGjYzz2rwSPC8kf+vhKb45HTHegDy6D4BeJvjB8bPirJrGpR6X4F1zW9PsrjTZdDcX2uWtlZWsg8u6eby0tZJ3ngkHkPvEcmyRPMBTO1P/gm5p91c+No4bvwZaw+LpNWkXU/+EIhl8R2/wDaTyNdI+o+dvkj8uaeFMRxuI/LUu+z5+g+EGv6p42+Cmu6pD8WvGmoahDbRDVIpvDVkdV8L3UZ8y6gjso7PzPO2HZHHOk7geW/7/Pzu+BX7QF8f2f/AB/40vNQ1/xxofhfUb2TSbm8tbXT9X1C1tYE8+O4hCQRwyR3C3SDzI4ZNkab488uAWvEHwan+N3xP+Nun6zb6lYaP4n8K2Hg22v0g8svH5N/JO8LN/rMPqGP7mYwP4DUkH7J+reJ/G2m+JPF3i611bxFDq+nXl7JYaOdPs7m00+O7NraxwPPMYz9qvXneTe5f7nyfJs5H4Tftg6j4G+C9vf+NdJ+IHiHXtP0aHxJ4wkjstKMfhSCRS5z5MieZBsikmjjTz7rydnmfvOK9g8AfHyx+JfxU8TeF9L0PxBJH4PufsOoau8MEemCcwQTpGj+ZvkcpP0RDs8s79m+PeAY17+zHJqc2qvJ4g3/ANuePLLxtfZsv9YlotoILX/WfwfYrX95/wBM/uVz1/8Asia/pPihtb8P+Ol0bWru71/7VeHRVuJRa6rdWk22DfMUjngSzt40kkEkbhDmD7nl5nwe/ae1fxf+0L4itdbs/GWmadqPiO58LeHdPeLTJNPAsrIz3V27wu915gngnjOX2Ynt0WPeJnS7bftpN4m+Mnh3T9E8LaxdeEr/AEjV9U1TWGS1T7GllfiySfm6R/s52TPxG8kiPBsTifywBNC/YXm0b4Oa14Q/4SxbhdY8E6J4Ekuf7M8vZZafDPHJ8nnf8t/tM/H8Hmfx4rT1/wDZR1PVtB8eeEv+Est4/APj7+1JZrFdKI1S0m1GOQXGy98/YYxJK7ohg3jOzzNgq5r/AO2v4X8M+CLXxDdafry2dx4Jl8eSRiCHzrWxjEJ8lwZP+Ph/PwijKExyfOPk3V779tTSdFu1S88I+PbaKE2surTTWdqv/CPwXc/k2sl0nn+YPM+/5caPNHGAZo4+lAGt+zZ+znD8AdD1eM2fw9tbzVZIzM/hHwlH4at5I48+XvjWad3k+d/nMgH9xE7+cw/8E/dS1LwjD4b1bx6t94d0fwjq/g/RbO30H7PJZwXqxxpPPN57+fPHGmx/uRycfInz7/WPjJ+0JY/CSW3t00jXfEer3FtPqI0zSFgW4jtYMedcyPcTQwJGm9PvyAvnCBz04vxF+3z4Z0KH7VF4b8c6la2/h/TfFGpXNtZQiLSLG983Y87STJ+8j8n54Y98h3jYkmH2AFLX/wBjnxR45Xx7d+IPiFBqWueNrLRbVHi8P+Rp+k/2de3F1GiQef5jwSGbDxvP5n+s/efOgjn8U/sjeJPE/jW4uJPH0NnpGqeKtH8aanp9voX7y/vdP+wDyfOkncpav/Z8bon+sjc/6x0Ty66S+/at0rTvilY6BH4f8TalZ32tnw4Ncto7Y6bHqGySR4fnnS4cxxxtveOB40OV35RwOO+DX7YtpF8H9e1/xTJqN5daZp03iyIw20W670691TUotNtbZVKebP5dtDD/ALZkgO8mTNAHa/tJfs9ap+0Ba6fp8OvaPpejwTRTy+foZu9Qt545N6XNlcieMWs46b/Lkrn7r9lXXLSz1JrDxZY297D40fxroM9zob3Bs55zMJ4LpBdJ9pj8ueSNNnkOiBOXcZLfGX7XccvhDx1Npei+KdPj8MtcaSmvS2tjd2ceqboYPs6QfbEnd47idBsk8tJPLfZIU2Oeu+HH7REfxQ8e6xomn+HvEE+n+H7yfS77xDstU0wX0OzzoPL+0m6Ujf8AxwbP9s8ZAMf4WfstyfD/AOKH/CVah4gk1rVri0v4tQk+x/Z/tV1fT2kk8yYf5IxHZ2sMcfzlEt0/eO2TXnPgD/gm7afDf4fDSdLuPAGn3ulrpZ0bWdP8EJZ6hI+n31vdwtqUyXW++3vaw79nkb/nfhyhj+rqKAPLfgZ8F9W+HGueMdW13xJH4m1zxhqUOoXFzFpv2GK2RLWG3S2RPMk/dxmN3TLF8SYd3P7xvUqKKACiiigAooooAKKKKACiiigAooooARRgV8nfEB9v7XnjNf3guJNOsXhCaf8AbJHTZy6f3K+slORXgP7aHwLuviHpWj+INFsby61jQ5wlyLCfyL65sjnfHHJ/f/xeqjuRM5vVJbmL/j/fVI4/+olq8FhH/wCQKzpZbCKN7z/iR/6OnmPNDpc+pyR/7fnvXKad4M+G2lyl21L49aXdfxo0HlyR/wDfENOuvhGvxn1XT9F8LXfxf1KxuLpP7UvvEd3s0+CH+P5Nn7ySqEe9fsIxtb/so+EkZdhVLpju7f6VPXsWKo6Pott4f0q3sbOGO2tLSNIYYkHyxonQCr1ZmgUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUM8Ud1byIy7lYbWFTUHpSaTVmHofP8A4t/Zr1Kx3XWk3Y1C2hj8iOyLeTcRxb/MTZNu+/G/3M4/36o3+jeOvGiQ6fPZanIsLpJ/pcMFtDvU/I0zp9/YRv8A3dfQkKLCvKqrN6U7DMpB+X0Ir82xHhpgHUnLDVZ0YT+OEZe7P/wL/hj6CnxJiORKrGM5R2bWx41Y/sv6pFoS6fNrmg3sO+SZxdaG8nmSO5cv/wAfPqxpIf2V7mzL+Rf+E4ZJEeN2h8OFH2P7/aK9qEeTR5YHevUXh3kMafs/Zf8Ak0v/AJIw/wBYMde/P/5LE+dbXwL40+FF032SO9vVkRIzdWtvHNHdKn3GeJvnST6ZFS+Hfgd4m8Zag2rX1wNJm87z999b+dPeSbPL3OqOmxEThEr6BiLOPmIbHcUrRL3+b6mvJo+GOAU4RqVZypQ+GHN7q/r7+9zpqcTYlrmjCPP/AD21OW+Hnw4h8BWM2JjfX19L513dOu153/P7qjgL2p/xF+HsfjnSI1+0S2N5ZyedbXCL5nkyYK/c/iXnlT1rqduBzRtwOK+z/sPB/U/7P5P3Xb+vz3PF+t1fbe25vePnRvhP4v8AhJfJJpS3GowxQ+UlxYwoF8vJxC9u7/wfwOn41PY/B/xZ8SNTkv8AUJP7LbejGa+t1keXy2+RFijdNif8DzX0Eg5/qDQ+R789Sa+Kh4W5bzey9rP2P/Prm9z+v/JvM9z/AFnxNufljz/z21PG9T/ZivNbu/Nu9Q8LXU/9+bw6Xf8AP7RVLV/2YdZhs4/sOpeHW+ys7paxaU1qk2/76b/OfZn12GvcWg+nNAtlB4616Vfw6yOrTlTcJL/t+X+Zy0+IcdB3U/8AyWJ84zaT44vNKXQW0/XpLUp5LRPHD+8j/uPc7/uf+RK6Lw1+zVqT29wuq6ta/Z9Tk3XlvbWuJCmzZ5Pm7/uAfL9yvbHXcaa67/4Qfx6Vx4Lw2y+FTnxk51rfDzyen9dtvI2q8RYlw5KMYwvvZDbewS0gWGFUjhRdioq/cryX4mfs6XGuaxNf6Pf21szzyXv2K4tt8ckzpsb5/wCBJON/yPXsINITX1Wc8O4DNcL9VxkPd8vdPLweOrYaftKT1PnOHR/HkGj/APCPx6fr0dqI/JREWD93H/dS53/c/wDIlbOi/s569aWl19o1bQ4f7SRBPbyaY90iJ5ezyd/nJvT6oK9zPIpCmR/iK+UwnhpgITU8XVnW5Pg55P3PTl5f8vI9SpxFiXC1GMYd7RR4sn7K01vKkkV14Rjkjfejp4aI2f8AkxWDqPwd8VfDfWFvNPdtSjDu6T6dCsUkAkk3vC0Tu+9PpX0IuYBzz7ntTWfzRnarfjW2L8NcoqxToc1GcdpRlK//AJM2Z0+IsZD43zx7OJ87D4Y+Lfi7qDNqC3WnwzRbXub62RVjjyMww26vvG/+N5D9K9V+HnwkHhTVJNT1C6h1LVpovJWSO2MEcEXUIi73P/j1dwyFR2A9KPmAG0frXVk3AeX4Ct9anz1q3885Nv8A+R/UzxWd4nEQ9lH3YdkTCigdKK+5PHCiiigAooooAKKKKACvG/Gv7L58bfHaDxlNrgEUd9pE8lkLL/WwacmpPDD5m/8A5+NQ8/ds6RbP496eyUUAeF6H+yrfeG/iVoviax8SW8l5puva3qt9DdaYXjvIdRmjIRAJk8ueCCGKBJjvTBk/d/P8nE+Gv+Cbmm+EvA3iTw3Z3Xgiws9c0m50K11Sz8FQwa59lnciQXd6J991J5BePeiQ5Ll33kV9VUUAfOWq/Cfx38UP2h/ihNa66vhHwvqVnpnheSaTQpJNQvrWGCS4d7K6adI4xv1CePzDBPh9/wDcp3iv9gbSNe8CaloouNFmjk8VQeJtPt9U0P8AtLS4DBYwadDaz2rzfv40tIdmd6c7H4Kc/RdeI3nxX8WeJP2ktW8F6Lq3hHw9b+HUsrmSx1fTZ7vUPEFrN8011aulzAI44+Yd+yceZG+/ZQA74ffsvz/Dfxd4E1TS7rwlpcfhXTtU03UbHSvC40+zvkvprWZ/ssST/wCi7JLKD7/n70z/AB/vK3PEnwY1jUvjbdeMtL8RWumi+8O/2C9tNpX2iS2cPPJHPBJ5yBDvmG9Hjff5cf3MZqv/AMNi/DwP4iZvEEiW/hfT7rVb25bTLr7PJa2smy6ngm8vy7mOJ/kfyC+x+D2o0z9rz4fato2satb67PLZ6I0Mc5fS7tJJzOSsD2sfkh7qOfY/lyW/mJJs+TfQByHiH9h8ah4O8L6PaeJPs6eC/CNn4Y0nzdO8+OJ4LuwuvPdDJ88cj6dao8PdB9/mmJ+x74lnv7rW77x9a33ii58W2Pit7yfw/wD6Jm2sRafZPs0c6P5Ay7x/vfMQ7N7z/OZJvBf7c3h3Xz4iutXh1yGxi125stBtbXwxq02pzW1rbWn2qe6tY4Xnh8u7mkjLyRoiAwA/OefVPiR8XdC+EemWd1rU14n2yf7JbW9lZT395dTYL+XDbQI80h2I74RD8iE9KAK3iz4Wt4q+Mvg/xRcX3l23hS11BI7H7Pnz57pYESbzM5Ty40mTZj5/tBORsw/l+pfsI2PiL4ReGvCOo+Iruax0Twpq/h+6lhtfLlvLvUY445L5Pnfyyn+lYj+f/j4+/wDu/n0rr9tLw+PFmiXVnfQDwPeeFZ9dub2WzuftbzPfWtpYwQwj95vkke6QQ+WZHkSNEHUVrP8AtmfDuxj8P/8AE8vBceJ57630vT10W+bULia1kjjuYPsog89Zo3kUvHIgkA3vjYjkAGTJ+yzrHiae41PxR4us9U8Sajqmg3V5cWGjfYLR7LR7s31rapC08jx/6Q8ju5lfJk+4E+SsDXv2Jdc8bXXi2/1fxloMeu+IrSytDcaT4Zexju/st5HdRzajCbpxeyHyRDvTyMRyThNnmDZ6D8F/2l9P+Ml746jtNL8QWNp4J1dtME1zpN9H/aCpChkeMSQJvcTefH5cZkfEaOcCZErA+G/7cHhPxv8ACmy8Xahb+ItJh1jV7rTdM0/+wtQuNQ1NIZJDHJBbJai4mDwBJn8uN0j3uhc+W5oAyfiD+xv4g+I3i7WLu48d29jpPibUdG1XWbG28P8A73UJdOMH7jz3nOy0lEDHy9nmJJJ/rnT928njb9h6Pxv8HvDvhu71Lw9q194d8T3vikSa74e/tPS7+5u5L950nsvPQSJ/xMJSn7z5HjR+cbK9F1f9ojwT4b+EEHxBv/EFnZ+DZVgJ1WVXSOPz547ePzON8f7x0R94HlnO/ZsNZFv+2B4Em8M3GrJqWrNHHqcekCzGgah/alxdPAlwkUdl5H2qQ+Q4m+SNv3Z8zOzJoAZL+zdbp8HfCvg+1uNE0Wy8P6zp2s3MWkaKthZ3D2l8l95cNskmIUeeNT1f335rjtP/AGCdDs/i34g1uez8EalpfiS+vb24a68IQSeII3ukfzE/tPfnyBI7uieRvGUTzCgxXYeJP2z/AIdeF/Dml6tda3dXWm6tp8erW9xp+l3uoLHZPwlxMIIpDbxl/k3T+X86OOChFc/+0P8Atp+HfhT4I+IsWj38N94q8B2v+lxXdhd/YNPuZ0g+zi6mCCMI/wBqicL5imQCTZyjlADBvf8AgnzYyfs+eD/Bs2qaP4g1Twrqw1251DxN4eXVtP1++eGe3me6svOQPHsn/dp5n7nyIMOfLrpvh7+yze/CjTtffQdb8MaTqWsaRp2lWsNr4UWDSNPS2nu53QWccyDy55L6fKCRHAk/1jv89dZ8PP2lPBvxH1j7Bpmr3n28xXc72eoaVdabcW6Wv2QzGRLmON48Je2jjzAN6To6ZQ5q9P8AHnwmvwos/Hf9qsvhbULWG8trxrWcNeJMV8ny4dnmu8m9NkYTe+9NoPFAHG2P7Ks2n/stD4eR65Yx3UV6dTtryLSzHp9rP/aX9oxQR2fnf8ekb7IUg87iBAnmd6zfDn7H2rJ4rk1rxF40XXtQuvF9p4rvXTSEtY5fs2nC1gskTzH8uOO4CzI53ybP3bl3/fnota/bD8B+F/CtrrF9eeIIba8+1Spbnwzqn9oRJa/695LIQfaIY4+N8kkaJ86c/OKh1f8Abg+Gul67faXJr01xqWli1+2W9npV9eSWxuo4ZLVH8iF8PP58CRp1kkk8tN8nyUAYfgf9ifS/Af7QWo+MYbXwPd2+o6tc62JrrwjC3iCK5nz5ijVN+fJEkjuieSHGdnmbBitr4ofsyTfEy5+JjSeIGtv+FjaJYeHX/wBE8z7BZwfaPMj/ANZiTzPtlx/cx5n8deieBvG9j8RfDdvq+mrqEdpcGRFS+0+ewuEKO8b74J0SSP5kP30H05roKAPlT46/CrVPhF8R5fG2i6x4im8VeINS1S6hk0zwVca6kcc9lptp9l2wvsgnxp9r5d1P+4GyTzErb+Fn7GWqaN8HIdPvdch0/wARXHw0t/BkjpbfaE06+k8+S+vd3mfvvMmkjOz5P9R9/wDefJ9IUUAcj8LvBl98PvDf9kXWpQ39nYyGHSxFY/Z/slkiIkMLne/mSIF5k+Tfn7gxXXUUUAFFFFABRRRQB47p37Msln8X18U3HiDzlPi268VtaCy8vfO+jx6TCm/fx5cCPz/Hv7VqeC/hDq/w4+CUvhnRvE0Nv4ge6ur5tXudL86OS6ur2S7nd7bzBuR3mdceZkD+PNenUUAeK6P8CvHWh6hrfiC38beG08c+ILm1F3ff8IvJ/Y72ttHIiW/2L7b5o+eZ5PM+1b/M/wBj93WD8Yvg5q/hP9kf4oaPbyXniTxZ8QftS39zYae6edcX0cdj5kEG+QxxxwiMDMj7EjLu/wB419EUUAeEfED9kzUPF2ueLrOz8VQ6b4L+IUMEHiXS/wCyTJe3Mcdulo6WtyJ0jto5LdERwYJD94psNd78HPhXJ8K7XXVa+/tCbxBr19rk84t/JCefNmOHZn/lnCI49/8AGYy+EyEHdUUAfLvwv/Z28UeL/AXg/wATWutTeCfEkeo+IdSukvdE+0XEUer6i88gRHePybqOPYkbyJIiZO+OStTwf+w9d+FPD1jo8HjBpLE/D7/hBdQaTSSLmbifN7BJ55EMkkk+90dJgdifc7/R1FAHzWn7DWta5Drn/CS+ObfVJ9W0nR9DRLLQBYWmn2NlfGeSGCPz3P7+P5P3jybJPn5TZAmr4w/Yr0vxf+0XcePZLTwPfLqlzZXl4us+EodW1O3ktUWMfYr15AbVHjjjBXy5MHe6bHfNe/0UAeF/tDfsv698Yta1680DxonhM+KPDT+F9UYaLHfXBgHntG8Ejunknfcv5mUk8xAmzy3/AHlTeIf2QIdb0bxpY/2x5MPi6+0RgiWX/HpY6d9k/wBF+/8AP5nkz/vP4PtH3H2fP7dRQB872P7IviOx8daRqEfxB8vRfC/iLWvEOk6YugpxPqi6nveebzszPHJqLmMx+WPLQq6O7+YnO6F+zALv45/C/Rbdda/4R34M+GINN1a5udPktbLxJdQfZH0tI3k/1wt3Sa5+R3SOTyU3b9+z6qooA+ddW/Ys1fxf8RNQ8Qa74q0WRry70uWddO8OfYf7Th0/Ure/j+2/6U6XE/8AoyQpNsTy45JwI/n46T4d/s9ax4c+P994817xB4f1C+n02bSiulaA2kyX8LyxyI19J9qm+1SQJCI432R7BJPxh8J7NRQAUUUUAFFFYfjDxda+BPDdxql5Fqk1ta7N6adp9xqNwfm2/JBAjyP9ETNAG5RXjfhH9tbwD4tCSW914mt7WbUE0mO4v/COr2Fs9698liLbzprZI/O+1SCIx53oY5C4HlybPZKACiiigAoorH8PeLNJ8S3+rW2m3treXGh3f2HUEhff9kn8uOfy39H8uaN8f7dAGxRRRQAUUVzHxC8fab8L/DM2t6xcXFrpsEkCHyraW5keSWRIY444o0eR3eSRESONC7uwAHNAHT0Vm6Jqi6zpVrdxrcxx3UKTKs8L28g3c/MjgOjc/df6dc40qACiiigAooooAKK5/wCIXjfTfhp4G1rxFrFw1jo+hWU+pahdCJ5PIghj8ySTYnzthFJ+QHp3roKACisfRfEVn4otXuLG+tby3jnntme3mWREmgleCZMj+NJEdHGfkdCMcGna94hs/COhXep6leWun6bpsL3V3dXMqQwW8KKXeR2bhERckk9O/rQBrUUVi+JfF2l+B9PgutWvbXT4Lq6t7GKSd9nmTzyJBDH/AL7yOiD60AbVFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeS/Fz9pvT/hX8ZfBPg+TT7rULrxVdBL26hfEeiwSZgglk/wCu92Y4UQdf3j/8syKuat+0ZoPhH4ieMtL8Qaho/h/Q/B+naXeXOt6lqEdrarcXsl2hgkMmxEKLBA/3/n+1DgY58S8d/spfEbx18O/GHjlvEPiCw+IWuS23iC28JQtpX2BZNOuPtWlaa9y8LyfuzGm947pIzPJO4/dyYqt8Xv2fviDqXxzvvHVlZeKobdPF11dW9v4duNHfVDB/Y1jY211H/aO+02b4775JNkg+10AfRGvftCeA/ClpDcax448H6XFPawX0Ul7rMECSQTeYY5l3OPkfyZtj5wfLfH3DWb8OP2p/A3xR+BMHxItPEFha+FGtDd3Nzc3UB/s8BRIUm2O6JIgIymdwOPx8g8D/ALJWq+A4vF11o/h+ODXLP4bWXhLwndaleQPPFNjULieMzwqNiedcwJxGifuAUGK9A134fa9qX7BOreE9F0DUNH8Qt4IuNC07Srqe08+3n+wvBCheOR4M52fxlKANzwT+1h8PvF/wz8I+LG8VeHtH03xwiHSF1HVLWCS4nf79qP3hR50k/dukbvhwR6V3Hi7xjpHgHw9datrmrafoel2ab572/ukt7e3H+27nYlfNHxp+D/ir4hXnibTtL8B3SWHxE+HNt4KsHvb2yz4H/eXgujdJ50m/93c2rj7J5/mPZoj7AEkr0T9oXw74gb4lfDvXNL8L6h450jwzJeyzaXa31rb3Ed68Mcdrff6VJHHJ5cf2qP7+/wD0jemdlAFn4d/tj+CfiRPrskPibwvbabY63/Y2jX/9tQSR+IR5Fjvmg6ZxdXv2XCb/AN4ic5fYOk8CfHHQ/E/hHUtYvL7SdLh0dLi7vfN1a1mS0s457iNLt5IXeOOCRLWR8l/l2Or/ADo4Hhn7M37O/jLQPiXJ4z8ZeD7GHWtLstfvrGJNQhusahqmt3c7pDIfuf6DBYp5jpGdlwE/56IlHwj+xn4rgl+E+i3UEEPheTwdpem/EDNynmXM+lyG6gtQg++Li6up/M/g8pJ0P+sSgD6M/wCF4+CzrWtaavi/wyuoeHLP7drFt/a0P2jS7bZv8+dN+YY9jB974GDmqfif40abYfDLXvEHhUDx5caGZLVbDQp/tcs98nyfZSU37H8xkD7/APVg734FfKOn/sdeOrv4O+JND1Kx8c6l4ih8Pa/pNnPd3egJpF5dau5S6ntfJSO7bfv87/S3T7mPnNfa3hPwhpngPwxY6Lo9jb6XpWlwJa2tpbr5ccEafcRBQB518Pv2i7rxf8Q9P0bVfCt54bh1bSdV1W2m1CVo5PJsb6C1fzIZI45E3pPDN8/8Eie9cr4G/bot/HnwC8WeNrHwzcrLpevf2FoelzXXlya/Lc/Z3059/l/uY7tLy1k+4/lxyb/nqX9sL4C+KPjX438BL4fYWulzPfaF4ovfPEcsGiXSQyXUcfR98/2VIRs+48iSf8s6r2H7Nuvj9szUtekhsbf4e28dr4hsYFdP9I177L/Zqb0H/LOC1hB5/juINn+ooA9On/aF8C6R4h1LQ73xt4Rttb0O1e71OxfWIPtNhCib5JJY9+9EReS7gDvUN9+038NdLhae68feCbOGGTyTJPrtrGiPvkj2f6zg+ZDOn+/BIP4Dj5R1L9mn4oePfhz4Z8L3nw9/sux0vwbd+H9WvLjXLWW51TU9QvdJTUb5/LfPlyQJqM+/eZJMyb40k8tH9O+N37L194r1b4sXWj+EdMiuNU+Htj4B8LSRiC3Nvav9uF15B3jyERbqP5Pkz9nSgD2TV/jtonhjxpqmm6zfaVo1rpUEDG+u9WtY45J5I55pIDH5nmI6QQGb94i70LFMiNyJNS/aH8A6R4FsfFN7428H2vhXVH8u01mbWraPT7t+fkScv5b/AHX6H+A+leL6r+zJqXjv4+R6trnhXT7rQR8RR4lzdNDOkdrZeHfsNl8m7r9reSdB/wAs/avMfiNpnjn9nfwb4q8UXnhL+1NUm8Oa7JZRQ6vZJ/wjF7qmsX92+9d+9/PSa1jT7OkjyPabO++gD7O8OePtG8Y3NzBpOr6Xqk1mkM0yWl3HOYY5kEkLtsJwJI/nT++nNeTyftb6rF8Qr6M+EbH/AIQmz8XweC/7XTWnOoSX8hgTeLL7Ns8gTzeWX+0b8Iz7MV3XwL8Lf8IH4Ih0VNCbSYvDscGjwTO0J/tSC2hjhS5GyR9iEIQEc7xs5r5t0/8AYx8bWFpbeIobe6/4SzxNdeJ5NQtbzW3ns/DF3qM93JY6pawNO8EclvG8cEnkDfJHK78yJhwD6m8LfFzwn44vtWt9D8TaBrM/h+TytUhsdRhuJNLfn5Jwjfuz8j8Pj7h9Kz9K/aP+HfiHwdqXiLT/AB54LvfD+jN5epala61bSWent/02mD7E/wCB4r5z1n4C+LPGnhGzuLf4cz+FdP8ADWhaR4X/AOEWS/sWvNesk1SzutQgSSOb7P5P2e2eGMSSJ5n2iff5FS6R8OfiRa/Ga4+IOufC+TU7V/FE97a+H7HWLKW4tETRrC10673zTRwfuJI9RjkT76SXe+PzEj3yAHq/gL9tv4e+N9S1Ut4v8GafYx66dD8P3cuvWuzxPstbSSR7Xn95snungwm/mPP8fHtlfF/wn+DXxL8K+LtL1hvAmqaD441bxDfXHiDUINW06+8OXul3WuT3bwTrJJ9q8yO0f9xJBBG/mGPzPk8yNPtCgAooooAKKKKACiiigAooooAKKKKACiiigArw74h/Cnx18WfiHoC6lYeDdK0Xwv4gj1jT/ENlqE0mseUn/LFLV7YRwmRD5Ej+e+Y9/wAn7z5PcaKAPjXwD/wT58QaF8Gm8I3kWjrfWOjWvhaHV5vGOsatHd6d9qtHvXSyuk8ix8yC1T9xBvj3+Wm9I0rvfiF+zT4yu/jZdePNIbw3qGrWPiSx1HS7DUb2a0t7qyh0W7sTFNMkMhjdLi/uZ02Rv9wcp5n7v6NooA+RbL9k34mf8INoOnyf8IKniyHWdU11vF2nate6bd6PNe6vNdzeRbeRILqB4XgR7WeREJi2OZAEces/Gv4eeNtZ+KvhvxR4Nbwv9r0fSNT0ctrTzGKwe7ksWF3HHGmZnj+yOnkmSAOJf9YmDv8AYaKAPjc/8E+/F7+DfDMM97od1f8Ag/QvCmnW1taazf6SmoSaXDffad97An2iDfPel0ePfnyI96da9N+DX7MN98P/AIleHPEVxa6ZZQ6To2rwz2cet32s3H2/ULqzmlf7VejzJ8R2aL5j7CTI/wAiDive6KAPNP2ePh7r3wz8M+ItN1ePR1e58R6vqtjd2dzJObyG9vri7Tz0eOPy3TzxHsDyf6v79eYeAPgJ8Sfhd4Q+FNzpum+BdQ8SfD3wrd+D7qyuNduo7O4Sb7Bi9S6Sy3+YX08b4zB/y8P+8+T5/pqigDwuT9mTUI/gB4U8Dx6hY3zab4j07XNcup4zBHfSQ6qmqXRjjw+3zJ0OyM8BH+/3rifil+xr4q8V/EO78XRXFjf6nL4ov9WTTbfxVqvhtJLWbT7CxhY3tkhnjnjj0+MFPLdH8yTkcGvqqigD5J1D9i3xjpGmav4a8Px+C7Pwn4kuNBm1SafUb6e8gtbKS3F3p0O9H/dybLqRJ5Hd99w6PH84kj6vxV+zX4uk+HGvQacPDN9rmt/EWDxlNbXd5NZ2d3bWt/BNawvOsDyJILeytd/7t/nQpyh319F0UAfFvxa+Auq+LfijoOiXGuaPb/EL4g65c6n41tNKmkkj0vw1Pp0dhOiPiN/3n9nWMCTyIm+d5JEjHl7E+gvjz8KtU8XeHPC7eFY9HjvvBet2usWOnag72un3yRxyQfZ2eNHMOElLo6RvseOP5K9QooA+W/j1+z98Wfizp/jdtHk+H+j6h8QvBkPhi9muby6uP7G8t795Eh/cJ5ySLfInnfuyhiL+XJ8kadF4g/Zx1dPDvxGhXw94L8SP468Tw6i+n32q3OmQR2UNlZ2tqUuYYJJIbiJ7KOVPLT5HPyOhw9fQVFAHmP7O/hXx14H8Ex6P42vtP1mWwgiS1v4bya7u5z+8Z0nd403+X8kaSffkCF32u5FenUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABVe7vIdOtHmmeOGGBd7s/8C/5FWKKAPi/QPB83xM/Z5/Zv8O3GqappN5481o+LdUmspTHeRxyWN7q0mJP+Wb/apoE3j503/JyN4898T/E/xXf6Bouhr40XQ/Dt5Z69deHtS174g6joNxdzPrl3BZbLqOGefUZLS0S1/wBFkk+f7R8/mfJs+5Pid8T/AA/8J9Os7/xDq0Gk2uoajaaXbyT/AHZbmeTy4YwPd264+QAu2EUkddQB83/ts+OvEXw6+D/gSKTVdLso9W1u20/xPqt1rsnh60SAWdxO+/UIYXkso5riCGPzI48nzNnyeZ5ieTwX+u6p4X3a/wCOvEEuieB/h9rniu9fw54rvZLe/gn1Kd9KR9R2QTz+Ta2Lp5/7uSTY/wA7o8m/7oooA+CPEnxR1K61Cx8N+KvHviaz+J1lr/hTw3oel6frF1YyXEM0Okz32qT2sEieejyTX0fmT74P9H8v7/mb+j8N67qHxU+INjcaz448cWfhS2h8a+I9Wt9M1ae1NzZQ6zb2mnQl433xx+TbTyJ5bo4/eJ/HJv8Aoi8+Af8Ab3xOtfEmqeJfFeqW2m3v9pafoV1PAdLsLrYY/OQRxJO5EbuESSR40Pz7A/NemUAfnt4b+IPxI8Z+JvAugar4wsdC8RWmh+FBpP8AaXji+0691SZ7eGe+u49PjtpE1fzJN8D+fJsj8h3/AHf7yR/Z/wBsLxx4f039on4f6L4o+ImteDfD8fh7Wb+907S9fn0m41+fz9NS0gTyJEnkk/4+nRID5h8sp9ySSOT3i5+KmgWnxXtPBcuorH4kvtLm1eCxML5kto5UjeTdjZ9+RPlzu5z0rldHvfB+o/tV69Ha6xNeeObXwzZW97pv3odPsvtVw6SA7B88kj/Ohk+5HGdiZy4B8q6d41+KWu/ELwr4Z8TeKNL8M+M9L0jwvFYQ6l40utJvL+6eOCfUZxp8Ns8eqCSTzIHDv5cfkyf6vmStzSPhq3xr+HPwhvPEPibxxqtx8UPHc2uxRv4lvrSKz05E1PUrVIEglTy0REg2Py4d4zv+SDy/uKvO/EumeH/E37QPhtbi/vG8UeFtOutStLBEP2fyZykDzv8AJ9/5HRPn/jk69gD498X/ABs1rUvhRq2taD438UXXxCvPD3iJ/GVjDq88lv4UneB4LG1+zb9llPHfPaRweWiTyRxzv+8/ePXofxb8J3XgTxNq+l3Xjz4kXejeAfh5feK9euYvE11aXGr3U7/uZJHSQeRHnTp3RLfyUT50/wBXJJG/1To3jDS/Eet6tp9jfQXV7oNylpqECNl7OZoY50R/cxyI/wBHFbVAHwyPEviH4HS3GleJviH4lt9P1bTvClr4q8Ra1qb40O6n/tae+dN/yWXmpDZWqeWE8t7iN/8AWfvDY+FEt/8AFPU/Cfh3R/FnxI0/w3r3jDxPqSO+u6idT/sfToP7N+zvNdSPdpG91NG/7zDxu42eW/lvX174h8eab4V1zQbC/uvs954kv307T4/JdzcTi3muiny/d/c20z5bH3PWuhoA+H/gv8QLfxqPCej/ABE+IPibQdH1XwzZ6t4Rz4ou9Mu9emvdRvv+XpJEnvZLe0TTk2O7/wCv3yRv5iGtL9ifx14w+Kfx1XVtW8UaP/aHkanJ4m8Pw+MLvUryyZp0SCCXSntkg0t4Ngj/AHb758SP+8y719nUUAfDv7XvjHSfiR8QPEng7xJ4m1uw1258a+HfC/h/w9aapdwW8ml3T6S91ez20LxpPG/2q6g33G+DfbpGn7zzN974E/FBPjd8e/A8zeLvEl74j1ey1rVvFelWmtXyafoyRxxwR6V9lR/IS4tzdQ7/AJPP3x73/wBYlfXVt4v0m68X3Ohx31tJrNlaw309oHHnxQTSSJHIV67HeGQZ/wBg1tUAfm34M+KXhX4ffsreHrebxxr9rpUngObxottpnirUXvPEHiKbzHntY5oZvP2Wkkb+fBG6R77jzJk++a+iv2s/DsNv+wZpOkeMNdvoY93hrTdb1eXU5LTCTX1pa3U880cifJ5ckzvvfZ9a+mqKAPiDxVrEvhjxR4s1+4+JXi7SfBEfjix8I2t7d+I5xYaBp0ej2n2q586R/nknnR4PPnMmySfenzv5lVrP403Pg74O2OraX4i8YL4fl+IHiHUon1TU764vI9I0jTr53hke6fz/AC3urJPkkPSevuiufufGml2Pjqx8PS3TQ6xqVldajbW3lv8AvYIHt0ncNjZ8j3UA9f3n+9QB8a39hr3wr0f+w9a+L/iDw/qU3w30+fXdb8Ua/N9jj1Oe5RIAX3oll5kdnewedH5ch8zzN7zpvr1DR/jHceHP2Crzxb4dk1DSWaaS3jvtU1248Qx6ZG+o/ZJNRS9uvnntI4991HJJ+7eDY/8AqzXvVz400ux8dWPh6W6aHWNSsrrUba28t/3sED26TuGxs+R7qAev7z/eqncfFPQ4viPD4PW6vLjxBNZfbGigsJ5oraJjKI3nmRPLh3mGYR+Y6bzG4TOKAPkPRvFDeJ9T1/SfAfxB8dTaDr3jvw34c0zVJNdur64k8i1/ta+ntZLqR/3c9v8A884/IkjT5EdK9/8A2PPtEfhjxlC2oa1qml2Pi/U9N0l9U1CfUriOC1dbV4zcTyPJJ/pEM5+d8jeU/gr2migAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK+T/27bW81rxFqtvqngPxB8QdHtPCF1P4a0a10J9VsLnWnM4kkuOsCSQRpAY/PwT58wh3yfJXnuo/sn6p4a+EnxI1jS9D1pvFMesaJoWn3U2n3N3Pb6La2OjWOozW1qjxyOJ4IL3f9ndJJ0QIj79lAH3lXKfFD4k2Pwv0Kxv76O4mTUNZ07RokgRZJHmvbuK0TjI+VHm3ueyI55ryz9kLwZH8Jvgx4m1CGGVtNv9UudYtdK0vwbdeF0s0jtreHyLXTJ5HmTe9vJJ/B5kk7nZ83PkPwV+H7eGdH8F6Pp3g7XF0Hw/44k1GbV18KXOk6h4jsrHQ5Hhu72CaNJPtcl88cO+RE894HdP8AWUAfX3g7xND4u0f7ZHa6laqtzcWwTULN7WQ+TO8fmbH+bZJs3o/8aFH6Gt6vzasPgjY+LbK98K3nhXxDrHxIh+Feg+HtM36RdSWmga/dJqV1NezT7PItZLd7yGRHkkSeP95s+d/n9A8OeCLH4w/FnxRqGleF9Yv/AIhN8UoLuLxJcaLdQWWi6fpd9ZwXXkXskfkfv49PngdLeR5JPM2Sfu0/dgH3LRX5y+AfgP4u174NeI5tQtNYbxt4g8Knwv4lhtfAWoaTeahe6pfWkc891qE8zpqL2/8ApWyeBPIjhkkf5I/LSvWPjH8Ef+ES+OekfDfwdpH9k+Gvi/4Y/s3XZbM4/s/T9LvXnvZZHzveS7TVHg87538y4Dv60Ae8eE/2idN8dfFnUvCum6Xrsk+l/afP1Jooxp48iSOE/Pv3/PO88KfJzJYXf/PMF+i134TeFfFni/TfEWqeF/D+o+IdGJ/s7VLjToZ7zT+/7mZ03pn/AGDW/a2ken2yQxJHDDGmxERcIi1ZoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA+Nv2nvCfjf9rHXvGn/AAimh+H9W8M+EdM1Hw1o1xqevz2Lrrrx+XPqMEcdrP5z27/6Km90xIl2nR6xPjH8SNS+PPhfx1470nxf4y0PTdP+FeialoumaVrE1hAdc1BL6aCaTyXSQ7BNZDZ5myTf86Psjx9oeIPEWn+F9Nku9SvbXT7OHYJLi4lVI497bEy7cfeI61YsNQh1FN1vIkyb3TcrbsMjFG/LpQB8e+KvGeofBbxD420e8+IHiSx8Ly+IdC0PWvEut6w7f2PI9lJfX86TP+7svtCSWkCJHsjjkuI/LRK4F/jH4N8ReHV8LXXxS8SeE7rWvEmsT6PqmtfETVNJuNA0SCZLF538+6jkuZ5J7WTyILjf5byyPs8tJI3/AEAv9Qh05N1xIkKb0Tczbcs7BF/PpVygD4ti8VNJ8QG0y08aeK2+J+j+OrLR9M8MjxFdSeRoMF1bpPPdWZk8ueOewE873VxG775xsk3iOr37OE2v654/+EfiCbxZ4w1Kb4gf8JD4luLa81aaSwTSN++1gS1P7vy0e9tHSfHmfcTzPL8uMfYlFAHxj8Z/EL+F/wBoPW/jdDp93qkfgHxRp/gpbawQyXOo2UmnTo0Ea/331XV4Y8f37QVlw2Op/s+eMvilrd7qlvp/jDWdF8IL4n8Qn/j30afUdY1KO9mR5Bs8u0tHgRJJPk2WkG/7j19nf8JDYjX/AOy/tlr/AGo0H2r7F5y/aPJ37PM2fe8vf/HjGa1KAPgrwb8UtEm8b6va3fxD8aaP8GZ/Fs9mdc1nxPqFvvkttH02eGAahdTieCO6mu7qZPLeNJBaR7MpJ+80fix4ZkvtZ+IPiTw74r8ZrJ4Q0vwt4M8P3MOtXccl5fzzefBPcv5nmXL/APE3tf3cnySZ+dH+TZ9yUUAfH+j33iD41+M/C+jt4s8Uafp/ibxv4u1K4bS9Tnt7iTSNOkk01IEk/wCWdvJI8D/uxxvSRHR/nryK6+LHjvxX4X8NaLH40tdBOqeEY9U8HX2u+PL3Rbi7vb7Ub77K6bIZ5NXe3t0sU8ieT955nz+Z5/mJ+jtFAHzz+0Z8V/CfgL9qv4TR+LvE/hvwvp+n6brmtJNrOpwWMbXAW0tI0HmOMu8d7dY/65vXmfjf4leJvHv7ZN9pNn4q0PSzpviDQ/8AhHrB/G13Y3Gp6R5Npd3skGkwwvDqMc6SXcPnySbI/L/5Z+Q7yfaVFAH50al+0BN4t8G3WtaP498YXHjbVPhVr+ua79j1m+/svTdXmSwhtdOgh3/ZYbi0nvdnyR+fH5aeZ88leqfFvwndeBPE2r6XdePPiRd6N4B+Hl94r165i8TXVpcavdTv+5kkdJB5EedOndEt/JRPnT/VySRv9h0UAfDvhi78bfE74g+HfC+p+OvGGm3jeKdO0bU5tN1KSGS5gsvCZur3/Yj8y7vY0k2fP5ibxseNPL53X/j/AGnhf4Y3sXi/xt4q0vw1peheIdd8Mxr4jvrfU/FEn9sX6WsIuo5vtc/2S0htd6eZ/wAve996J+7/AEErzX4tfAOH4zXsceoeJPFFv4fuIIrXU/D9vNAmnavEkm8pPvhef94G2P5cieZH8j5oA4P49WHifw7+yZ4L8OjxNr2j+MtS1Dwxoj6tbzhr8zm+tBdOX5R3MCXBff8AI/PrivL9N0PVvDnxNmbSfG3xCvYV+Kll4c0GyvPEd1eRrDDp1vdap5geTM/meRe/JP5kcGN8aR/PX2tRQB+fDftCavafDfwz4q8L+Otc1jxteaQ998TN+qz3+n+DY5440kd7J38ixe0nm3pH5aSeXaT7/M8uSs34ieN9O0j4u+KNV+G/i7VNW0Oz07w9oeqeJdX8Zaj9kjgvbrUp72aPVJPPFrBJ9itYPPtE8uOSd9mySPKfozRQB8i/sHjU/E3xu8SX2peItP8AEdroPh63t9JurLW59ditoL7Ub+cwf2hOkcl1sjtbUCZ4/nQx/PJWD8Q4bfwx8aPid4wk8Sa74b0XUvGmkeDde1tNeukttI0xNOgu5nG5/Itt91Mlr52PMg+0TbJIy9fbFcf8OPhjZ/DKLWvsU95cS69q9zrV01w6uTNMfuDavCRhERR1wnfuAfL3wl07VvjH8eNB0K38aePl+HdjF4i1XT/K126juNb07z9KgsvNuvM8+SPz/wC0Xgn3+Y8CJ8/lyfP9o0VTgvY7uaaOGRHa3fy5lVv9W20P/wCzqfxoAuUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzuheBtN8NeJNa1SztGt77xFeR3t/N5rv8AaXS3jgQkN90BIUGxMDIz/GxMngTwbpfw90D+ztItTZ2Zurq88su8heaeeSeZ9zE/fkkdz7ua3qKACuV0r4a6VpXjnVvE0NncSa7rEMcE1xcXU0/lwx8JHCjuUgjJ+cpGEDud7/PzXVUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVWvIpp7RlheOObZ8jsu/Y1AHyB4c/aF8a6No3hXxjq3jibWbHxPqPiC7fw99hsoLew0G0g1KeC6Lxw+fvR4bGMzb/L/fonllz5j8zcfFn4+Q6Tb6Taaz4i8SeLLPwNpvi27ubCy0Cx08ajei4jt7S6F68DpYg2T73t987yXEh3wJHHBX0p8Cv2RfAvwH+EFt4V0/wz4Yl+0aPBo2vXg0W3gk8SIkHlu138n77zPnLh9/8ArH9TXW+Lvg94P8fa/pOpa94W8O63qmhPu0u8v9MhuLiwb72YJHQmP7o+56UAfM/xY8a6p8bPFeg2lx4svNP0vUfilFoFl4TiiszHf22kXfn3c90ZIHuG/eWcjjy3jQRyQB94fe8/7OXjDxR8XtE0nS4fFQ+HsU3hGx8fXFxpWl6csmqTa1fX0kZkSSB49kaQ/PsRJJJJ8vJ/f+iW+BvgyTxdeeIT4R8LN4gupN9zqP8AZMBvLhvLaHdJNs3ufKeSPOfuO6dDinav8C/Beu3egTah4R8L30nhFVXRHuNJgkfR9mzZ9lJT9zjYn+rx/q09BQB8xaFZahe/E7WL4+ILzxBZfEL4zNpDaZqFhp11Zxw6VayTvs/0XzN6f2W8afP8nlo/+v8AMnkoeNP2m/iDoHwH0Xx5a+NmvtY+IHgPV/E6aAlhZNZ+F9mnefayQfufPfy7qS1tX893SSSf7kf3K+sdP+EXhXTPFdzr1r4a8P2uuT3P2ubUYdNhS6ln2eX5jybN5fy3dN/XY5GcGq2j/s+eAfD0er/YfA/hKxPiSTzdXNvosEf9pvv37p8J+8+c7svnmgDxG+1z4s6Tr3j7wvaeNm8TeItP0vw/eW7w2mnWMkF1cXV8+pWunpJHs3/YbVHgF2Zx5jje+zfi5+0R4tk8ef8ABOG+vtK8Va9cDxpoNlZ2GtS2ttb6heJqL28CeYnl+UjyeeEfy40Pzny9j7HHtHjD4K+D/iPbXsfiDwr4Y1yHVHhmvY9Q02C7jvJI12xtIJEO/YOEJ6dsVq6t4F0XxB4Nm8PX2j6XeaFcwfZJNOuLVJLOSHAGwwn5CnH3cdKAPkP4tr4s+HXxH8e694d8banaz/Drw3oPhuCWbT7CSfXb6a7nkjgm/cpAkB+22qukEaSfc2PH/H0l/wDHLxH4z+MngpLbx9JoK+L/ABtrGgWvhm3isH/4lmlpqUc97J50LzmR57IfcdEj8+NHQnfX0Zb/AAy8N2Vo1pb+HtDhtJrq2vGhXTo0iae28jyJCm378X2aDy36p5EeP9WlVrD4M+ENH8Wza9Z+FfDdrrVxdfb59Ri0yCO7ln2PF5zybN5k2PIm/OdkjjODQB4Z+zf4l1T9nb/gnBdePb6/1TxZdN4avfH3lX6QRuZLqCTUngHkQp9+R3d3fe/mSyc7NgHE+P8A4/fEb4Y/E3WvCOl+NtU+IOrTR6Fpt4LWx0iOTRNQ1CS/kkS1jkEEcbi1sv3aX08nz3EBfzM+XJ9RP8IdO8KfC6+8N+C9P8P+Eba4hkS3ht9Ig/s+B3Pzl7ZAiPv53jvmuH+C37GXhr4beEfE2i6zo/g7XLfxdcR3GoadaeG4NP0JEjUbIILL94qoH3yfvHdzJI755oA8qS28efFfxn8F9F8VeJfEvh/VLLxJ4h1lRs0STULmyso3gge68iOe18+P7WkMnkYT94/yB/Lkj7v9pz4i+Krb4rXWk6H4uuPCGj+G/BOoeJ9bmttOtbq8bZPGLXy3nSSOPiG6+/HICnmfJv2SR+uQ/BXwfbWGg2q+E/DS2vhR/O0SGPS4RHo7/wB+2TZ+5P8A1zxV/WvA2jeIRqa3+i6ZerrVl/ZuoefaRyf2hagSfuJ8j95F++m+R8p+8f8AvmgD5Mf47fFb4eHTY9X8XW2raz4n8M6JPdo2kwQ2Ph291TVbTTYJoERN7Rxo91JJ9okkEkkabPLQmOtix+J3xE174n2Xw50v4gXkiQ+Nr/TZPE0+nWUl9eaXa6RbzzoESBLc3Ed/deQJI49iG3+dH2SI/wBLa18P9B8UxasupaHpGpJrdkmnagLuySb+0LVPMKQz7/8AWRp503yPkfvJOPnNQ+Hvhn4d8Hppcej6BomkLodpPaWEdnZRwfYYZXR5IYQg+SN3jRmROCY0yOBQB8+fskfGn4ofGHx/oOuavD4ig8J+IrLUbh7bUxoiWdukc8aWptTbTfbjKPuT+emzzHPyQfJHS698efE2vfFbw6+l+Mm0OHVPiA/hTTfC8cVlIdUsrJ5DqN1P5kb3H/LGfYYHjRE8jPL19AeF/hJ4S8E+JdV1rQ/C/h7R9Y1tw2pX9jp0Nvc6gfv/AL6RE3v/AMDNQwfBfwjY+NZfEkHhPw7H4kuJ0u5tUXTIReSzIjwpI02zzN4jeRN/UI7joaAPn+1+NHja6+CFj8Tl8eNHceNLyz02y8Py6dajS9BW+1S1sUnPyC6kltPP/eB5/LeTemyPIx2Fz4+1H4HfFXw7o+ufEqfWvDlvo2u+ItZ1PXYdPgkhhtDpsCQu9tDAibJLx5M7EJ+4c16bH8APA63uv3K+C/Ci3Hi9HTXZf7JgD62j/fW6OzM+f+mmf51BB+zp8PoNN0O1XwL4NSz8MzPPo8H9jW3l6VI/zO8CbP3Lk90xQB8tfC39qH4m+LPh7N40m8WJNb6T4Z8NPDpradbRW9/rGr/On2qby/MS3jS9sd6R+W/7vPmJ8/mRfEPVPFHxP1fVPA0nxY13X9PX4h+G9DTUILLSN32uCOTUb6CPZa7PLj8uB9j73SSDY7um+N/rey+EfhWDwzf6DH4b8Pw6FqcaW95pqadD9kvIkgjgRJI9ux08iKOPkfciROiAVWf9n/wOvhp9EXwV4T/seSa3uPsJ0iA23mQIkcD+Xs2b40jREP8AAETHagDwf4f/ABb+KXjL4/7bNfEsnhXR/F1x4YuPtCaImmXlrawyJNM+H+3/AG55084eXGkHl/8ALP8Ajq/+0h8Y/F1rP8WdR0HxddeFo/hXp8J07TbbT7W5fxJqU1r9ojSfzkkd7eSR4LaNIPLk8zz/AJz8nl+6xfB7wjbfECTxfH4Z8Ox+LJk8iTWl0+H7e6fd2GfZ5mPbOO1GtfCDwn4n8a6f4m1Dwz4d1DxJpKbbHVbnTYZb+y/65zOu9PvdAe9AHzbqv7XvjbS4PiGkcizXnwVTxD4h8Rh4ECahAPtcmiab9z5PMg2SO8fz/wCiJ/z3qoPin8a9E0qTTbrVNa0fUfEeteG9M0jUPENjodxcQTz3E8mo7LXTppE+yfZYE8vz5PP/AHkn7z5BJX1faeFtLtZtWkTTbGN9al8zUCsCZv38pIN83H7z92kafNn5EQdBWH4P+A3gn4c29pb+HfB/hLQobC9OoQRado8FrHBcmB4fPQRoAknlu8e8c7HdOhoA8t/ar+HmteIbH4R+DY/G3iOCfVPFtrHc6ksNj9ovDZWl1qKTSIbbyN6SWUbjZGke8J8nQV5/4T8Z+MPGXxMWHR/GVj4M0PXL7xjruvX2naFYveS22nalaabZSCSSJ087y4X/AH0iTeZGD12R7Pqjxj8P9B+IENhHr2i6TrUem3qX9qt7ZJcfZbmM/u5k3g7JE7OOfzqvZ/CrwzpsLRw+HdCgSW3ksnCWEKB4Hcu8BG3/AFbuzOU6EnNAHx8v7SPxY+GHwu8M+JNW8RDxVr3iX4bf23NpH9k2trYaXezXek2tlLn5JM5vbl5/Mn8n90+xIEwB7/8Asn6r49vIfFEHjf8A4SB4rC/hj0uTXjpH9qFPs0byJMmlu8H+s+dP49kgz2r0i6+G3hu7jeOTw/oskcmm/wBkyK1jH89l/wA+vT/Uf9M/ue1HgP4b+H/hZ4ej0nwzoWk+HNLR3kSz0uyjtLeN3++2yMBMn6UAdFRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

Figura 6 - A Amazon Web Services (AWS)

# Exemplo prático

**Configurar software**

1. Para usar o ThingSpeak, você deve entrar com sua conta MathWorks existente ou criar uma nova. Neste caso podemos usar o ThingSpeak gratuitamente como usuários não comerciais.

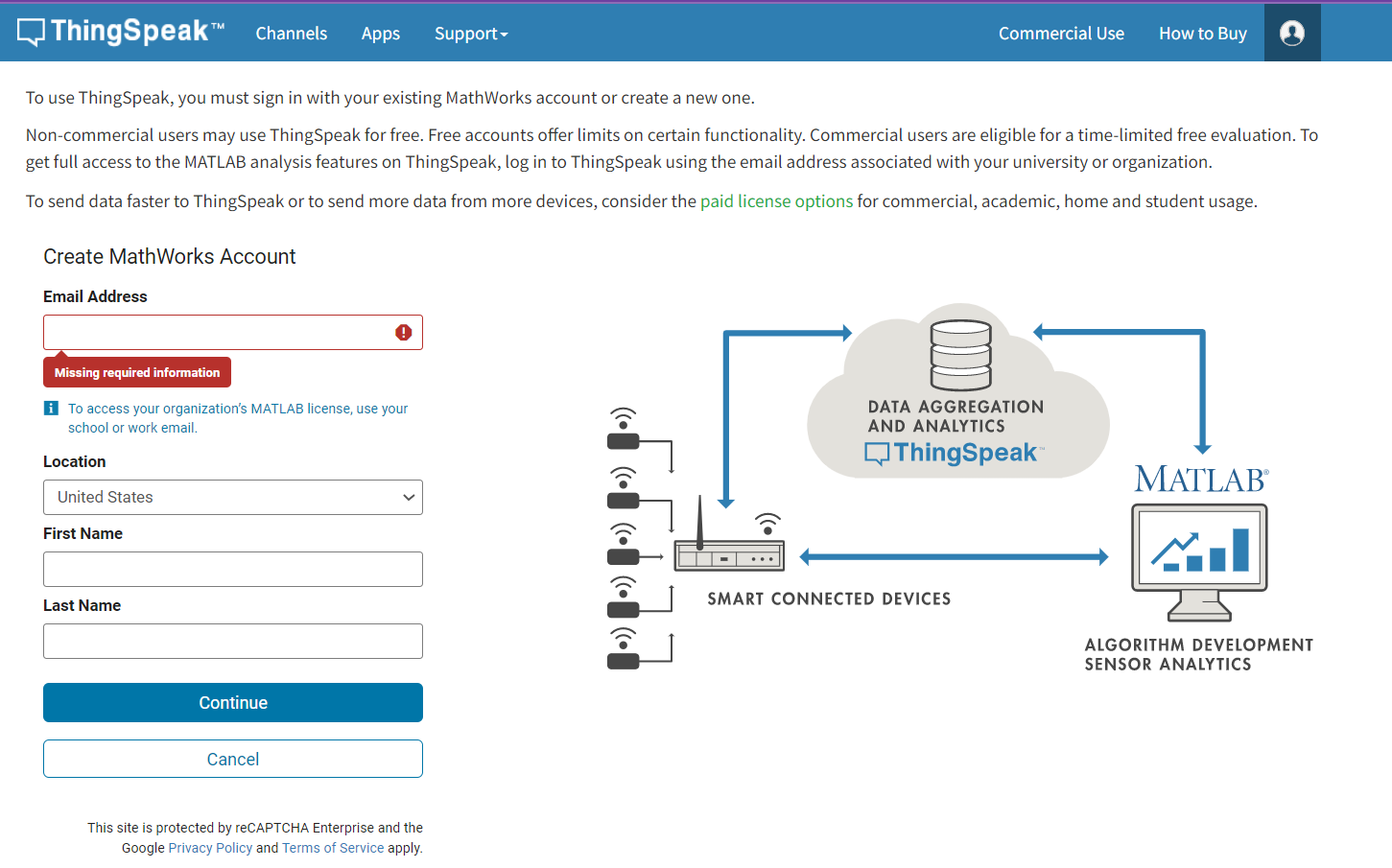


Figura 7 - Criar conta no ThinkSpeak

1. Após a criação da conta vamos criar o nosso *new channel*

Uma imagem com texto

Descrição gerada automaticamente

Figura 8 - Create new Channel

1. Na sequência é nos disponibilizado o nosso Channel ID e as API Keys

Uma imagem com texto

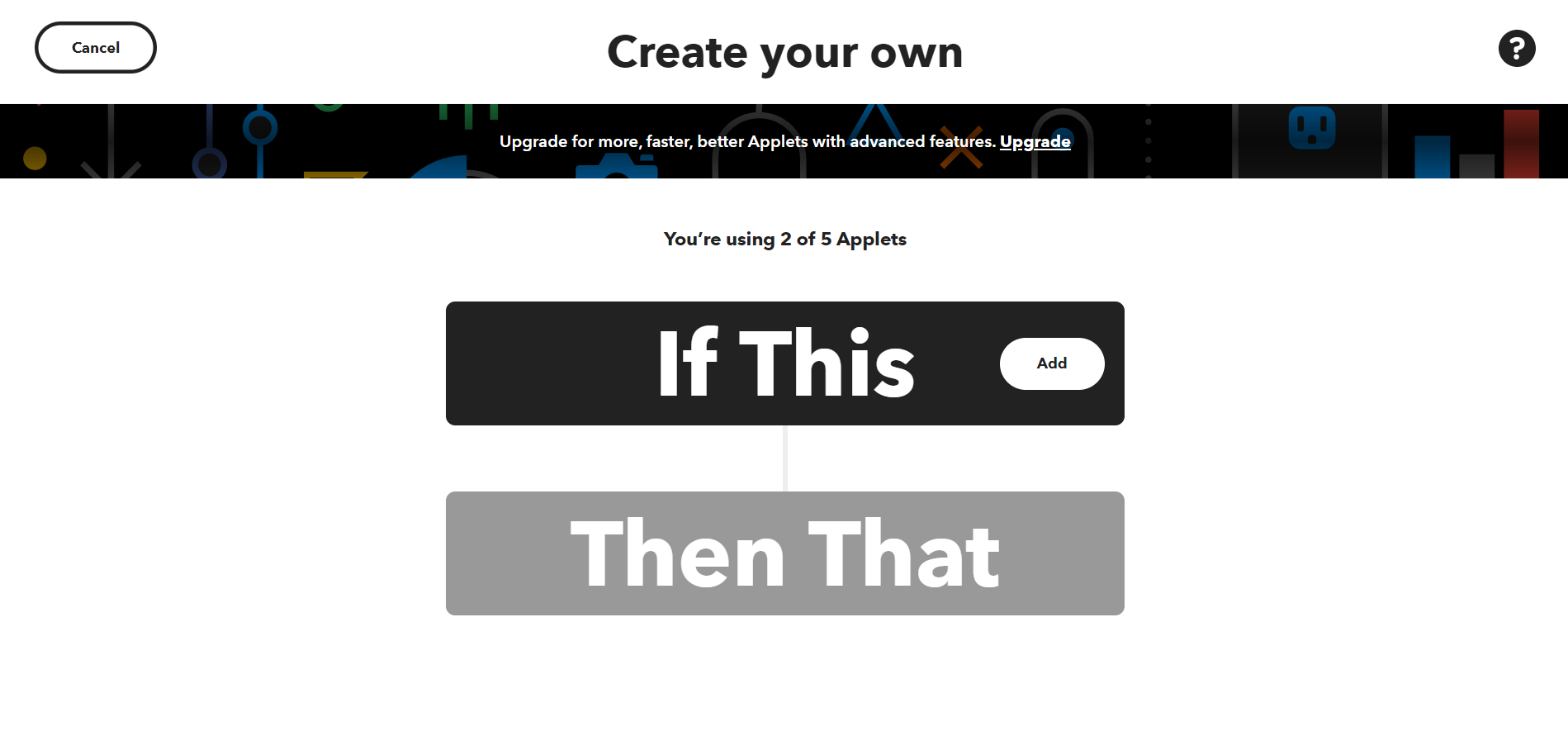
Descrição gerada automaticamente

Figura 9 - Api Keys

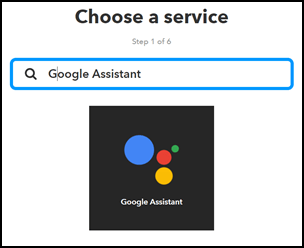
1. Crie uma conta IFTTT se ainda não tiver uma. Faça login na sua conta.
2. Instale o aplicativo Google Assistant em seu dispositivo móvel.
3. Crie um miniaplicativo IFTTT para acender a lâmpada

Os applets IFTTT requerem um gatilho e uma ação. Para este exemplo, o gatilho é um comando do Google Assistant e a ação é Webhooks. O webhook envia um comando para a API REST do ThingSpeak para alterar o valor do canal.

* 1. Clique em **Add** para definir o gatilho.



* 1. Entre *Google Assistant* barra de pesquisa e selecione Google Assistant como seu serviço de gatilho.



* 1. Escolha Say a simple phrase. Uma imagem com texto

     Descrição gerada automaticamente
  2. Digite uma frase para acionar sua lâmpada. Como o assistente também é capaz de pesquisar na web, evite padrões simples como Turn light on. Este exemplo usa a frase ***Start Light*** acender a lâmpada.

Neste ponto temos que fazer 2 vezes uma para acender e outra para desligar exemplo Stop Light

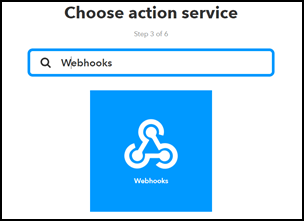
Uma imagem com texto

Descrição gerada automaticamente

Agora escolha **Webhooks** como sua ação.

1) Selecione **thern That add** para continuar.

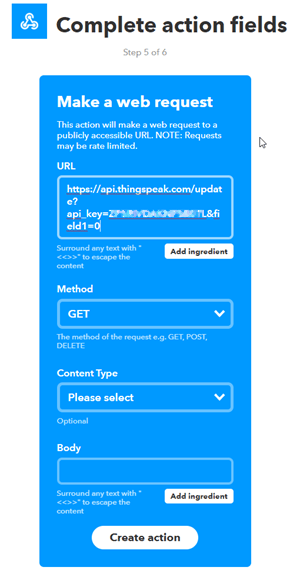
2) Digite Webhooksna caixa de pesquisa e selecione o cartão Webhooks .



3) Preencha os campos de ação dos Webhooks. Insira a URL para alterar o valor do campo para 1. A URL tem o seguinte formato. https://api.thingspeak.com/update?api\_key=XXXXXXXXXXXXXXXX&field1=1

Use GETpara o Método e application/x-www-form-urlencodedpara o Tipo de Conteúdo

O nosso field1=1 lampada esta acesa e quando o nosso field=0 a nossa lâmpada estará apagada.



**Implementação do nosso Código no esp8266**

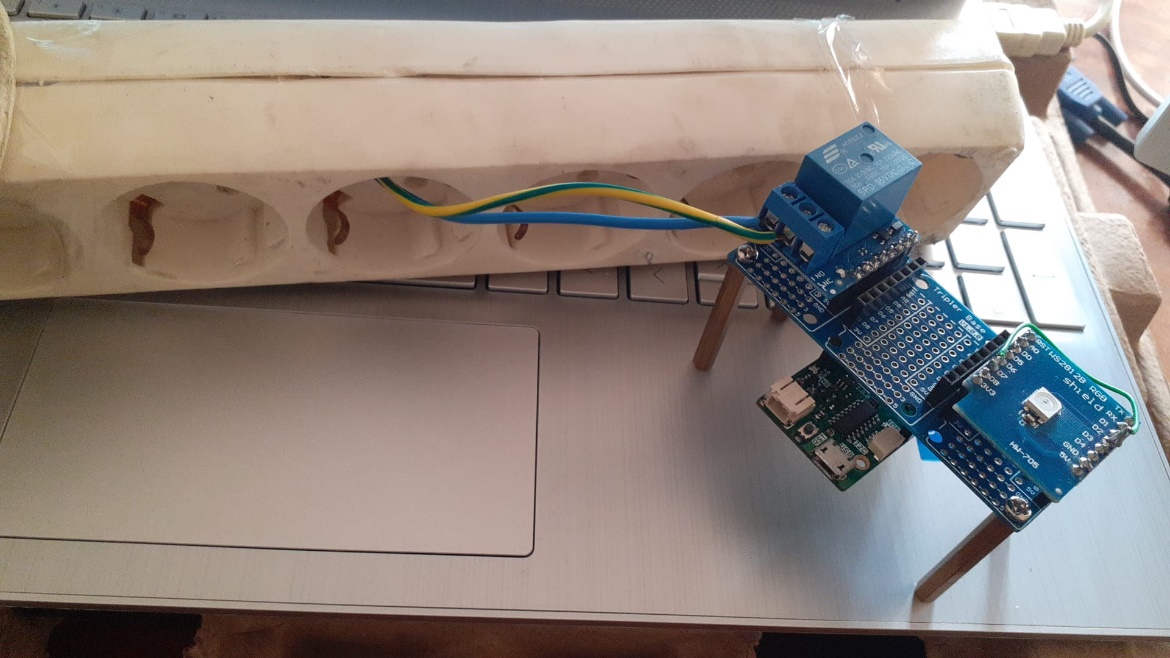
**-** esp8266 **D1 mini Pro**

**- RGB LED Shield**

**- Relay Shield**

**- Tripler Base**

**- Tomadas Schuko 16A com Switch on/off**

****

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Incluir a biblioteca NodeMCU ESP8266

#include <ESP8266WiFi.h>

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Incluir a Biblioteca Adafruit, Baixe aqui:https://github.com/adafruit/Adafruit\_NeoPixel

#include <Adafruit\_NeoPixel.h>

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Incluir a Biblioteca ThingSpeak, Baixe aqui: https://github.com/mathworks/thingspeak-arduino

#include <ThingSpeak.h>

//-=--=--=--=--=--=--=--=--=--=--=--=--=-

#define PIN\_LED\_RGB D7 // Definindo RGB Port

#define LED\_NUM 1 // Definindo Numero de RGB Port

#define ON\_Board\_LED D4 // Definindo um LED On Board, usado para indicadores quando o processo de conexão a um roteador wifi

#define LIGHT D1 // Definindo LIGHT/Relay Port

//-=--=--=--=--=--=--=--=--=--=--=--=--=-SSID e senha do seu roteador/hotspot WiFi

const char\* ssid = "\*\*\*\*\*\*\*"; // ssid

const char\* password = "\*\*\*\*\*\*"; // password

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Channel ID do ThingSpeak

unsigned long channel = \*\*\*\*\*\*\*;

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Declaração field1, eu uso field1 para luz/relé, se você usar muitos field, adicione field1, field2 e assim por diante.

unsigned int field1 = 1;

WiFiClient client;

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Configuração da biblioteca NeoPixel, informamos quantos pixels e qual pino usar para enviar sinais.

Adafruit\_NeoPixel leds = Adafruit\_NeoPixel(LED\_NUM, PIN\_LED\_RGB, NEO\_GRB + NEO\_KHZ800);

//-=--=--=--=--=--=--=--=--=--=--=--=--=-SETUP

void setup() {

Serial.begin(115200);

leds.begin(); // Inicializar o NeoPixel

delay(100);

pinMode(ON\_Board\_LED, OUTPUT); // LED output

pinMode(LIGHT, OUTPUT); // LIGHT/Relay port output

digitalWrite(ON\_Board\_LED, HIGH); // off Led

digitalWrite(LIGHT, LOW); // off LIGHT LIGHT/Relay

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Wait for connection

WiFi.begin(ssid, password);

Serial.println("");

Serial.print("Conectando");

while (WiFi.status() != WL\_CONNECTED) {

Serial.print(".");

//-=--=--=--=--=--=--=--=--=--=--=--=--=-Faça o LED intermitente a bordo no processo de conexão ao roteador wifi.

digitalWrite(ON\_Board\_LED, LOW);

delay(250);

digitalWrite(ON\_Board\_LED, HIGH);

delay(250);

}

digitalWrite(ON\_Board\_LED, LOW); // Ligar o LED On Board quando estiver conectado ao roteador wifi.

Serial.println("");

Serial.print("Conectado com sucesso: ");

Serial.println(ssid);

Serial.print("IP address: ");

Serial.println(WiFi.localIP());

Serial.print("Netmask: ");

Serial.println(WiFi.subnetMask());

Serial.print("Gateway: ");

Serial.println(WiFi.gatewayIP());

//-=--=--=--=--=--=--=--=--=--=--=--=--=-ThingSpeak.begin(client)

ThingSpeak.begin(client);

}

//-=--=--=--=--=--=--=--=--=--=--=--=--=-LOOP

void loop() {

int statusCode = 0;

int last\_light\_state = ThingSpeak.readFloatField(channel, field1); // obtenha os dados mais recentes dos campos no ThingSpeak

statusCode = ThingSpeak.getLastReadStatus(); // Verifique o status da operação de leitura para ver se foi bem-sucedida

if (statusCode == 200) {

if (last\_light\_state == 1) {

led\_set(10, 0, 0);//red

led\_set(0, 10, 0);//green

led\_set(0, 0, 10);//blue

digitalWrite(LIGHT, HIGH);

Serial.println("LUZ está ligada");

}

else if (last\_light\_state == 0) {

led\_set(0, 0, 0);// desligado

digitalWrite(LIGHT, LOW);

Serial.println("LUZ está desligada");

}

Serial.print("Os dados mais recentes do Field1 no ThingSpeak são: ");

Serial.println(last\_light\_state);

}

else {

Serial.println("Problema na leitura do channel. Código de erro HTTP: " + String(statusCode));

}

delay(15000);

}

//-=--=--=--=--=--=--=--=--=--=--=--=--=- Funções

void led\_set(uint8 R, uint8 G, uint8 B) {

for (int i = 0; i < LED\_NUM; i++) {

leds.setPixelColor(i, leds.Color(R, G, B));

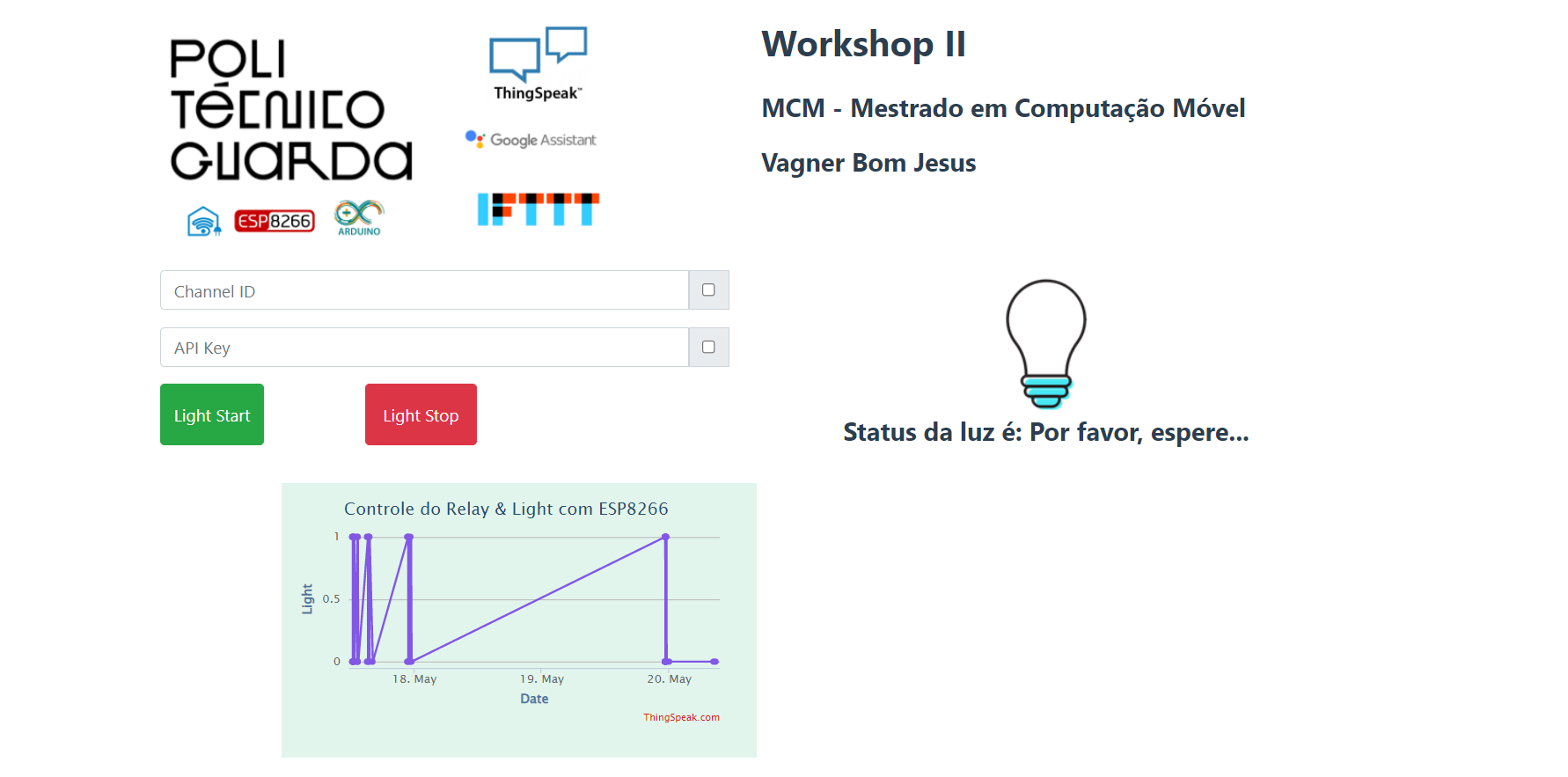
leds.show();

delay(500);

}

}

Por fim foi desenvolvida uma dashboard simples em Html e CSS de modo a visualizar e manipular a lâmpada.



Teste e implementação da mesma

# Conclusões

Concluindo, o Flutter é uma ótima opção para desenvolver multiplataforma, com fácil reutilização e implementação dos widgets (componentes), e com esta mini implementação com único código para as plataformas Android e iOS respondeu muito bem a o que erra exigido.

O mesmo material está publicado no ***medium*** do ***@vagnerbomjesus*** dividido em 3 parte e o código completo disponível no ***github***: **https://github.com/VagnerBomJesus/workshop**

# Referências

|  |  |
| --- | --- |
| [1] | “Flutter,” 18 Outubro 2021. [Online]. Available: https://flutter.dev/docs/whats-new. |
| [2] | “Dart,” 18 10 2021. [Online]. Available: https://dart.dev. |
| [3] | “Flutter,” 18 10 2021. [Online]. Available: https://flutter.dev/. |
| [4] | “Mediun,” 18 Outubro 2021. [Online]. Available: https://medium.com/flutter/. |
| [5] | Flutter.dev, “Flutter,” 18 Outubro 2021. [Online]. Available: https://flutter.dev/docs/resources/architectural-overview. |
| [6] | statista, “statista,” [Online]. Available: https://www.statista.com/statistics/869224/worldwide-software-developer-working-hours/. [Acedido em 05 Fevereiro 2022]. |
| [7] | V. B. Jesus, “Github,” 15 11 2021. [Online]. Available: https://github.com/VagnerBomJesus/IPG. |
| [8] | “webview\_flutter 2.3.1,” 15 11 2021. [Online]. Available: https://pub.dev/packages/webview\_flutter/install. |
| [9] | “flutter\_launcher\_icons 0.9.2,” 15 11 2021. [Online]. Available: https://pub.dev/packages/flutter\_launcher\_icons/install. |