HIDDEN TEXT: Optional—If you do not include a copyright page, delete entire page and the following page break.

**STUDY OF DIFFERENT FLOW REGIME FOR TWO PHASE GAS-LIQUID FLOW IN LARGE DIAMETER VERTICAL RISER**

by

NAZMUL HOSSAIN

Student ID: 1591454

COURSE PROJECT

MECE 6353

Computational Fluid Dynamics II

Presented to Dr. Ralph Metcalfe

Mechanical Engineering Department

UNIVERSITY OF HOUSTON

December, 2017

## Abstract

Accurate prediction of flow regime for multiphase flow problems in vertical riser, has a very important role in proper prediction of liquid holdup and flow rate of different phases through that riser. This prediction has a huge impact on industries such as oil and gas, chemical and nuclear. Our study for this project is not to analyze change of phase at different pressure-temperature, but to understand the flow behavior of gas-liquid flow at different superficial velocity of gas and liquid in large diameter (25 mm-280 mm) vertical riser. At first, we studied a single taylor bubble rise in a non-inclined vertical riser as an axisymmetric 2D problem. Then we moved onto a 3D vertical riser to observe other non-symmetric flow regimes and compare our simulation result with experimental data obtained from literature. Finally, we have done a shut-in restart procedure, common in oil and gas well. We observed flow regimes and transition to churn flow. A critical reasoning for transition of different flow regime and the parameters affecting that are discussed in detail.

## Table of Contents

[Abstract ii](#_Toc500200451)

[Table of Contents iii](#_Toc500200452)

[List of Figures iv](#_Toc500200453)

[Chapter 1: Introduction 1](#_Toc500200454)

[Chapter 2: Background and Literature Review 1](#_Toc500200455)

[2.1 Types of Flow Regime 1](#_Toc500200456)

[2.2 Previous Experimental Approach 2](#_Toc500200457)

[2.3 Numerical Approach 2](#_Toc500200458)

[Chapter 3: Problem Statement & Methodology 4](#_Toc500200459)

[3.1 Simulation-1 4](#_Toc500200460)

[3.2 Simulation-2 5](#_Toc500200461)

[3.3 Simulation-3 7](#_Toc500200462)

[3.4 Simulation-4 7](#_Toc500200463)

[3.5 Computational Modeling 9](#_Toc500200464)

[Chapter 4: Result and Discussion 10](#_Toc500200465)

[Chapter 5: Conclusion 14](#_Toc500200466)

[References 15](#_Toc500200467)

## List of Figures

[Figure 2.1: Vertical Upward two phase flow regime[Shoham,1982] 1](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200468)

[Figure 3.1: Schematic of water jet propagation in air chamber 4](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200469)

[Figure 3.2: Schematic of rise of taylor bubble by gravitational body force 5](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200470)

[Figure 3.3: Uniform structured mesh near bottom of vertical riser 6](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200471)

[Figure 3.4: Mesh Quality 6](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200472)

[Figure 3.5: Schematic of axisymmetric taylor bubble rise 7](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200473)

[Figure 3.6: Schematic of 25 mm diameter vertical riser 8](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200474)

[Figure 3.7: Mesh at a cross-section of 3D vertical riser 8](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200475)

[Figure 4.1: Volume fraction of water propagating through air chamber 10](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200476)

[Figure 4.2: Taylor bubble rise in vertical riser 11](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200477)

[Figure 4.3: Axisymmetric taylor bubble rise at different Re 11](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200478)

[Figure 4.4: Axisymmetric taylor bubble rise at very high Re 12](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200479)

[Figure 4.5: 3D simulation of different flow regime at vertical cross-section 12](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200480)

[Figure 4.6: 3D simulation of air-flow in liquid filled vertical riser 13](file:///D:\University%20of%20Houston\Fall%202017\Class\CFD%20ll\Final%20Report_CFD%202.docx#_Toc500200481)

## Chapter 1: Introduction

The application of multiphase flow in vertical pipe or vertically inclined pipe is very common all around us. In some industries such as oil and gas, chemical and nuclear industries, accurate observation of multiphase flow takes a very important role. For example, in oil and gas industry, inaccurate observation of multiphase flow in vertical pipe will lead to wrong production analysis from well, and that may lead to bankruptcy. So, to avoid this issue and properly design the pipe, multiphase flow observation through large diameter pipes has a crucial role. For the simplicity of our problem, we will consider two-phase gas-liquid flow for our analysis.

There has been very few published work done in two phase gas-liquid flow through vertical riser compared to horizontal pipe. There are fewer work on large diameter vertical risers. Also, almost all the experimental work has been done by visual observation, which is limited in understanding the transitions between flow regimes properly. So, the motivation for this project is to numerically analyze the different flow regime and transitions between them to understand the two phase flow behavior more accurately.

Gas-liquid two phase flow regimes and classified depending on the volume fractions and their shape in the mixture. In general they are most commonly classified as bubble flow, slug flow, Churn flow and annular flow. These different types of flows affect the mixture flow rate differently. For example, it is very hard to predict the flow rate in a churn or chaotic flow. With better understanding of flow regime, more accurate prediction of liquid holdup or production forecast can be done and suitable design for optimum performance can be made.

In this project, we are going to start with numerical simulation of a taylor bubble in a large diameter riser as Taha[1]. Then, we will numerically analyze the slug-churn transition experiment done by Barnea[2]. We want to do a numerical simulation of the experiment of air-water flow along large vertical pipe done by Lucas[3], as their experimental setup was most described in details. Our final goal would be to compare 2 different diameter vertical rise flow regime at same superficial velocities.

## Chapter 2: Background and Literature Review

Both liquid and gas coexist in two phase flow along vertical riser. These two different density fluids acts differently at various velocities with body force acting on them. Two phase flow in vertical riser is very common, and accurate prediction of this system has huge impact on industrial sector. Generating optimum design of a piping system requires proper knowledge of pressure drop in the system. This pressure drop in two phase flow is linked to the understanding of different flow regime in the system. In vertical riser, flow prediction becomes more difficult compared to horizontal pipe, due to body forces acting on it. When the tube diameter is greater than 10 mm, we assume negligible capillary effect. Our focus on this paper is the large diameter vertical riser which is more challenging according to the literature.

### 2.1 Types of Flow Regime

A close up of a piece of paper

Description generated with high confidenceDepending on the superficial velocity of liquid and gas, different bubble pattern has been observed visually and generally classified as bubble, slug, churn and annular flow as shown in figure 1. The pipe geometry, fluid properties, volume fractions of gas-liquid and surface tension can also affect these flow regimes. Commonly, at low gas superficial velocity with low volume fraction, bubble flow is observed. Increasing the gas velocity results in transition to slug flow by coalescing of small bubbles. Increasing the gas velocities more will result in breaking of that slug and leads to unstable chaotic flow. At higher gas velocities, the flow becomes annular (gas at center and layer of liquid at wall).

Figure 2.1: Vertical Upward two phase flow regime[Shoham,1982]

### 2.2 Previous Experimental Approach

As almost all industrial pipes are made of steel or non-transparent material, direct visual observation of these flow regime is impractical. All experiments to understand the flow has been done with transparent pipes. However it is extremely important to develop a correlation between different parameters for accurate prediction of these flow regimes. In this paper we will mostly focus on the correlation of superficial velocities of gas and liquid at different flow regime and transition between them. A good amount of experimental work has been done on 10 mm-100 mm diameter upward vertical flow at an early age, such as the air-water upward flow in 25 mm pipe from Taitel et al.[4]. Barnea [2] has his work to understand the transition between slug to annular flowDue to the recent increase in production, interest is more focused on larger diameter pipe. For example, 254 mm riser by Farman[5], and 280 mm rise by Schoppa. Despite this experimental approaches, a standard for these experimental setup has yet to be formed. Due to the slight differences in their experimental setup and lack of detailed information, it has been hard to recreate the same experiment at a later time. A detailed experiment has been done by Lucus[3], dedicated to close the gap between experimental and numerical approach to this upward vertical riser problem.

### 2.3 Numerical Approach

Very few numerical work has been done for the large diameter vertical riser due to the complexity of the problem. Farman[5] and Schoppa[6] has shown numerical simulation results from OLGA to show the deviation of the numerical simulated result from experimental result. Schoppa[6] has also shown a comparison with results from ANSYS Fluent and showed good agreement to the experiment. OLGA is a 1D simulation software developed from years of experimental data from actual oil wells. On the other hand ANSYS Fluent is a 3D solver with more accurate computation but more computational cost. Fluent has three multiphase models. They are Volume of Fluid (VOF), Mixture Model and Eulerian Multiphase Model. In our problem, VOF or Eulerian model can be approached. Considering the problem statement and computational cost, we have decided to use VOF model in fluent for our analysis.

With an accurate numerical simulation of different flow regimes, correlation between the flows and transition between them can be closely observed and their identification process can be classified based on parametric values.

## Chapter 3: Problem Statement & Methodology

Main objective of this project is to analyze flow in large diameter vertical riser at different superficial velocities of liquid and gas. Two different diameter (25 mm and 254 mm) vertical riser is considered for this project. The superficial velocities will be chosen from the literature so that all the flow regime exists in that velocity region. Finally a comparison between those two different diameter flow pattern maps will be compared and analyzed.

### 3.1 Simulation-1

We started our initial simulation with the tutorial from ANSYS user manual on inkjet. The problem statement is to inject water into an air filled chamber and propagation of the water is observed over time. Gravitational body force is not considered for this problem.

Water: Air:

Density = Density =

Viscosity = Viscosity =

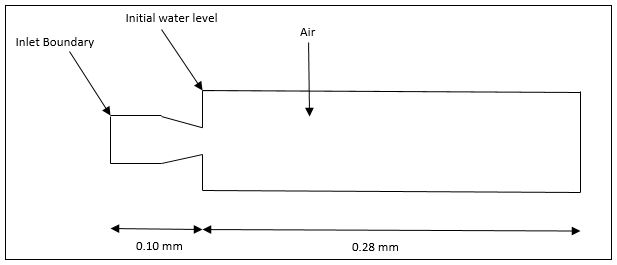


Figure 3.1: Schematic of water jet propagation in air chamber

### 3.2 Simulation-2

For our second initial simulation, we planned to simulate axisymmetric slug flow done by Taha[1]. However from the simulation results until now, we observe a non-symmetric behavior. So, we moved on to a propagation of taylor bubble only due to gravitational body force acting on it. We have used 2D geometry as the flow is symmetric.

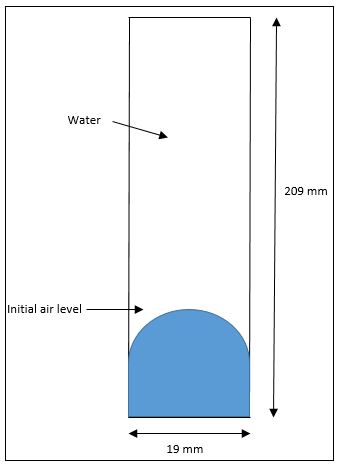


Figure 3.2: Schematic of rise of taylor bubble by gravitational body force

Structured mesh was created for the initial simulations. As recommended for the multiphase flow problems, a uniform mesh was created for the 2D geometry with sizing mesh method. An overview of the mesh for simulation-2 is shown in figure 3.3.

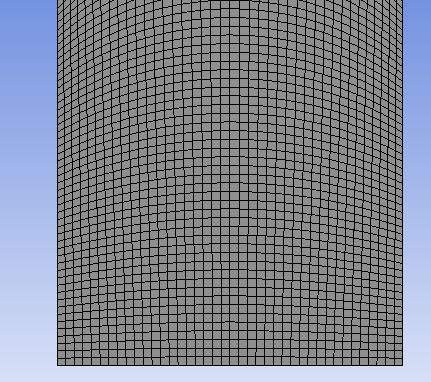


Figure 3.3: Uniform structured mesh near bottom of vertical riser

In figure 3.4, selected mesh quality is checked. From observation, most of the elements has orthogonal quality near 1, low skewness and low aspect ratio. These are all quality of a good mesh.

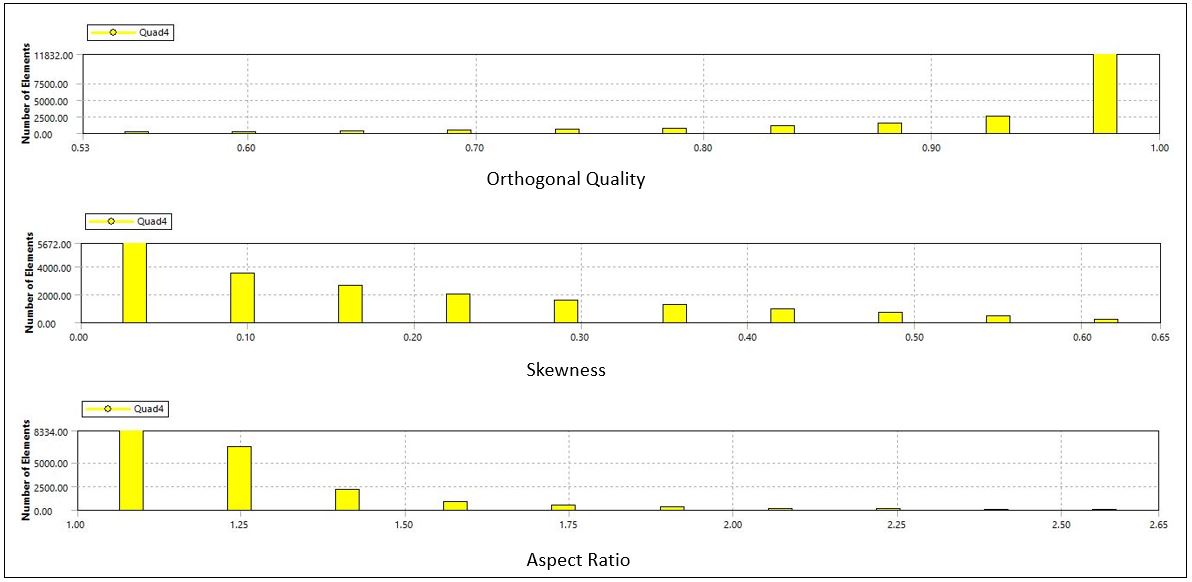


Figure 3.4: Mesh Quality

### 3.3 Simulation-3

We approached the axisymmetric taylor buble rise in a 25 mm vertical riser similar to Taha[1]. The case setup was for a taylor bubble rise in an infinite pipe. Taylor bubble velocity was defined by wall translational downward motion.

![A close up of a logo

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRhbmltAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NgAAkpIAAgAAAAM2NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxNzoxMjowNCAyMzozNDoxMgAyMDE3OjEyOjA0IDIzOjM0OjEyAAAAVABhAG4AaQBtAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMTItMDRUMjM6MzQ6MTIuNjU3PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPlRhbmltPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAf4BNgMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APpGiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDlvGcJvNQ8L2DXN5Bb3mrNHP9ju5bZ5FFlcuFLxsrY3Ipxn+EVL/AMIHpH/P54g/8KPUP/j9Hij/AJGLwZ/2GpP/AE33ldJQBzf/AAgekf8AP54g/wDCj1D/AOP0f8IHpH/P54g/8KPUP/j9dJRQBzf/AAgekf8AP54g/wDCj1D/AOP0f8IHpH/P54g/8KPUP/j9dJRQBzf/AAgekf8AP54g/wDCj1D/AOP0f8IHpH/P54g/8KPUP/j9dJRQBzf/AAgekf8AP54g/wDCj1D/AOP0f8IHpH/P54g/8KPUP/j9dJRQBzf/AAgekf8AP54g/wDCj1D/AOP0f8IHpH/P54g/8KPUP/j9dJRQBzf/AAgekf8AP54g/wDCj1D/AOP1m32hQeH/ABR4Vk0291j/AErU5IJ47nWbu5jkT7FcvgpLIy/eRTnGciu2rm/FH/IxeDP+w1J/6b7ygDpKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8Uf8jF4M/7DUn/AKb7yukrm/FH/IxeDP8AsNSf+m+8rpKACiiigAooooAKKKKACiiigAooooAK5vxR/wAjF4M/7DUn/pvvK6Sub8Uf8jF4M/7DUn/pvvKAOkooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5vxR/yMXgz/sNSf8ApvvK6Sub8Uf8jF4M/wCw1J/6b7yukoAKKKKACiiigAooooAKKKKACiiigArm/FH/ACMXgz/sNSf+m+8rpK5vxR/yMXgz/sNSf+m+8oA6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK4zx/r2p+Gr/AMMaja3OzSpNVSy1OLy1IaOYFUcsRlQr4PBHXnNYlj4+1Sb48XOhSup8Ouklha4Rf+P2KKOaT5sZ+5IRjOPl6UAenUV5Vp3izXtV8FXniKbxRpuh6Zd6zOtrfX0KfuLFCUQRg4DyMyE5fPBPBwBVj4a+NrjW/F+s6H/wktv4psrW1iurfUo7dIXBZmVo3CAKcYBBAHWgDes/iVo974a8Oa3FbXwtvEV8ljaI0ab0kbfguN2Av7tuhJ5HFdfXgWgf8kd+EX/Yy2//ALc1747iONnbO1QScAk/kKAFoqG0vLe/t1ns5kmiboyHPPofQ+1TU2mnZgFFFFIDm/FH/IxeDP8AsNSf+m+8rpK5vxR/yMXgz/sNSf8ApvvK6SgAooooAKKKKACiiigAooooAKKKKACub8Uf8jF4M/7DUn/pvvK6Sub8Uf8AIxeDP+w1J/6b7ygDpKKKKACiiigAooooAKKK53xB4+8M+F7xbTWtTEV0Y/NNvDDJPIqf32SNWKr7kAUAdFRWCfG/hwW2j3I1WFrfW5fJ0+dVZo5pOcJvAwp4IwxGSCOvFQeIPE2m/ZPEGl22tnTtR0zTWu7m5jtWm+wIUYrIRjaxAUsEzuIHSgDpaK5Z/GWieGfC+izeINd+0veW0fk3AtnMt8dgJkWFFLDOdxAHGa29G1mw8QaRDqekT/aLSfdskKMhJVirAqwBBDKRgjtQBeooooAKKKKAOf8AHfhn/hMPAuq6EHSOW7gIgkckBJVIaNjjnAZVPFcJe/CzxHN8M7OzttTsY/F8GqSarJf7nELzSs4fkLuxsfH3f4R0r1uigDzjWPhreL4d8H2/hyaxa68KsrR2+oK32e6Pl7GLbQSGzlg2Dgk8Ve8L+GPE1t4/1HxN4oudMdr7T4rVYLDfiApI7bcsPmGGB3cEkkbQAM9zRQB5jpnw21iy8A+BdElubE3Ph3V4r67dZH2PGvm5CHbkt+8XqAODzXp1FFAGfdaNDNdfa7Z3s7zGDPAQN49HU8MPqM+hFQf2rc6aAuvQqsecfbbdSYj7uOTH+OV/2q16KtT6S1J5eqGxyJLGskTq6MMqynII9QadWTJoptpHn0Of7DKx3NFt3QSHvlOME+q4PrmkGvJZt5Wuxf2fIBxIzboZP92TH6Ng+gNPkv8ADr+Yc1tyl4o/5GLwZ/2GpP8A033ldJXF3utWev33gi/09y0T61KCCMFWGn3eQR612lRKLi7MaaaugooopDCiiigAooooAKKKKACiiigArlPGl5b6fq/hG6vZkggi1mQvI5wF/wBAux/PiurrmvFSq/iDwcrqGVtZlBBGQR/Z95TVr6gVtO+JOh6lrkllHMsFtHEX+13UgiV2DABVDexJ5weOlbP/AAlGgf8AQc03/wAC4/8AGo9P8J6RpOuSapplt9lmliMTxxnEZBKnO3sflHTA68Vs1vUdG/uJ29TKCqW95mV/wlGgf9BzTf8AwLj/AMaP+Eo0D/oOab/4Fx/41q0VneHZ/f8A8Av3u5lf8JRoH/Qc03/wLj/xo/4SjQP+g5pv/gXH/jWrRReHZ/f/AMAPe7mdB4h0W6nSC21ewmlc4SOO5RmY+gAPNefaz4r1CX4ka9o2navofhSPS7W3muNQ1C1Es16HUtlcyINiD5STnBPvXqVZ2o+HtF1i5huNX0ewv5oP9TLdWqStHzn5SwJH4VDt0Gr9TwzTprG4/ZnXT5VOoX2p6pcW+kLbDymkuzcuYpE/uBSN59ACM81peH3ay+EXxJ0TXcnxZaW1/LrEztk3ReBzFMpwPkKYAGBjHQZr2KPQNHint5otJsUltXkkt5FtkDQvJzIynHylv4iOvenT6JpV1c3FzdaZZzT3NubWeWS3VmlhPWJiRlk5+6eKQzzq40mC68P+C9W0/wAT2eg+INN0hDbfbCjxzRPEgdXjZgdvyj5gePeuq+Hfiq58Y+D4tUvreCG4E8tu7WzFoZTG5XzIyeShxkfzrUv/AAt4f1WC3h1TQtMvYrVQkCXFnHIsKgYAUMDtHsK0YIIbW3SC2iSGGNdqRxqFVR6ADgCgCSiiigAooooAKKKKACiiigAooooAKKKKACs7XtHXXtHm06S4lt45sB2ixkgHOOR0rRopxk4u6E0mrM81XwZF4T8U+FDaahcTwz6xIGhlA2hhYXeG474yPx9q9Krm/FH/ACMXgz/sNSf+m+8rpKqdSVSXNJ6ijFRVkFFFFQUFFFFABRRRQAUUUUAFZWseJdK0J44tQugLmYZhtIUaWeb/AHIkBZvqBismbWdQ8UXE1j4VkNpYxsY59cKqw3A4ZLdTkOwIwXI2L6Ocga+jeHdN0JZDYwsbic5uLuZzJNOfV5G5P06DsAKAM0az4o1EZ0rw3HZRN0m1e8EbY9RFEHJ+jMp9cdKytTi8Rr4t8Hvrl3pclv8A2tKFis7WRHDfYLvBLtIQRjPG3uOeMHu65vxR/wAjF4M/7DUn/pvvKAOkooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5vxR/yMXgz/ALDUn/pvvK6Sub8Uf8jF4M/7DUn/AKb7yukoAKKKKACiiigAooooAK5K+nm8X6xcaLZPJFotmxj1K7ibabmTvbRsOQB/y0Yf7oOd2254o1K73W2haK5TVNT3ATLg/Y4Fx5k5HtuAUd3Ze2a1tL0210fS7fTrCPy7e3QIi5yfqT3JPJJ5JJNAE9vbw2ltHb2sSQwxKEjjjUKqKBgAAdBUlFFABXN+KP8AkYvBn/Yak/8ATfeV0lc34o/5GLwZ/wBhqT/033lAHSUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAc34o/5GLwZ/2GpP8A033ldJXN+KP+Ri8Gf9hqT/033ldJQAUUUUAFFFFABTZZUgheWZ1SONSzuxwFA5JJp1cz4yJ1FdP8NRkj+2Zilzg8i0jG6b8GG2P/ALa0AJ4Oik1FbnxTeoy3Gr7TbRuMGC0XPkpg8gsCZGH95yOwrp6RVCqFUAADAAHSloAKKKKACub8Uf8AIxeDP+w1J/6b7yukrm/FH/IxeDP+w1J/6b7ygDpKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8Uf8jF4M/7DUn/AKb7yukrm/FH/IxeDP8AsNSf+m+8rpKACiiigAooooAK5nRh/anjjXNVb5orER6XbegwBLMw+rOin3irobu5isrOa6uG2wwRtJI3oqjJP5CsTwLay23gnTnul23V3Gb25B6+bMxlcfgzkfhQB0FFFFABRRRQAVzfij/kYvBn/Yak/wDTfeV0lc34o/5GLwZ/2GpP/TfeUAdJRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzfij/kYvBn/AGGpP/TfeV0lc34o/wCRi8Gf9hqT/wBN95XSUAFFFFABRRRQBzfxAJfwTe2akg6i8On8dcXEqQn9JDXRqoVQqgAAYAA6Vzfiz99qnhay/hn1gO49oreaUH/vqNK6WgAooooAKKKKACub8Uf8jF4M/wCw1J/6b7yukrm/FH/IxeDP+w1J/wCm+8oA6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDm/FH/ACMXgz/sNSf+m+8rpK5vxR/yMXgz/sNSf+m+8rpKACiiigAooooA5rWf3nxA8MxHokV5cD6qiJ/KU10tc/fW8snxG0ScLmGLTL4M2RwxktcDH0DflXQUAFFFFABRRRQAVzfij/kYvBn/AGGpP/TfeV0lc34o/wCRi8Gf9hqT/wBN95QB0lFFFABRRRQAUUU3zE8zy9678btueceuKAMrSPElnrOsazptrHOk2jzpBcNIoCszIHBXBJIww6gc1r15BomneJtU+JXj+DQtdj0O1W/gZ7hLRLiZ5Ps6YAD/AChQOTwSc8YpP+Fh+IpPhbe3U1xDDruj+Ik0W8uIIlKSlbiNGYKwIG5H/POMdgD2CsjRPElnr19q9pZxzpJpF4bOcyqAGfYrZXBORhh1x9KwvG/iDUtH8VeDLPTrjyoNT1NoLtPLVvMQRk4yQSOecjBrkvDWmeKNU8Y+PYtB1+LQrRNZJ85LNLiaSUwx8EP8oQADoMnPUY5APSvEniSz8L2Ntd6hHPJHcXkNmggUEh5XCqTkjjJ5/ka168M8QeKNY8UfB2ynu47U67YeJ7ewlxlYZJ4rgAN6hT8uce9dReap4u8GeMfDi67r8Ot6Zr119hmhFkkBtZipZDEV5K5GMOScd+eADtNA8S2fiOTVksY54zpWoyadP5ygbpEVWJXBOVw45OD14rXrxmx8WnwP4L+JmvRxLNNb+KrlYI3OFaR1gRc+wLZPsDVax+Js9h4k8PxxfEHT/Fg1TUIrG706GySHyPNOBLEy4barYBDFsg9qAPb6KKKACiiigAooooAKKKKACiiigAooooA5vxR/yMXgz/sNSf8ApvvK6Sub8Uf8jF4M/wCw1J/6b7yukoAKKKKACiiigDm77/kqehf9gXUv/R9jXSVzd9/yVPQv+wLqX/o+xrpKACiiigAooooAK5vxR/yMXgz/ALDUn/pvvK6Sub8Uf8jF4M/7DUn/AKb7ygDpKKKKACiq19qFtptv513JtBO1VALM7dgqjkn2FZ/2S71sBtTVrSyPIsg3zyD/AKasO3+yPxJ6VajdXexLl0Q6XUrjUWaDQShUHbJfON0cfqFH8bfoO57VbsNMg08O0e+WeXmW4lO6SQ+59PQDAHYVajjSKNY4kVEUYVVGAB6AU6hy0stgS6s85Twr420Txd4j1vw1eaLNFrN0kgstQMoVQsSIH3ouQ2Q2VwQRt5BzUf8Awqq5b4W6hoD6qn9t6hfHVZ9QWLCNeGVZM7eu3KBfXAz7V6VRUFHmlz4Q8ceIPE3hrV/Et9okKaLe+c1nYeaVdSjBn3uuSxOMLgADPJOKfbeFfHPh/wAQeI9S8OXuiTRazftcLaX/AJoWIeWiq+5FzuyGBTBBAXDA5r0iigDzC4+FV+vw1s/D1lq0Y1M6vHql7qLpjdJ53mSOi4IJHRQeDgZIq8vhPxZ4g8VaLf8AjW70cWOhym5gh01ZC11PtKrI+8fIFySFBbnvXoNFAHnTfDGbUfCnjPRNVu4ohr+sy6jaz2+WaDIiMZYED5g0WSAcY4zzWrpMXxGa7tYtcn8Nx2sTg3FxaLM8two7BGAWMn1y2OwrsKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8Uf8jF4M/7DUn/AKb7yukrm/FH/IxeDP8AsNSf+m+8rpKACiiigAooooA5u+/5KnoX/YF1L/0fY10lc3ff8lT0L/sC6l/6Psa6SgAooooAKKKKACub8Uf8jF4M/wCw1J/6b7yukrlvGFxDaa14QnuZUiij1iQu7nAUf2fd96NwOprMvNVfz2s9JiW7vBw+WxHB7u3b/dHJ/WofMvNcUeQZbDT26ykbZpx/sg8ovufmPbHWtO0s7ewtlt7OFYYl6Ko7+p9T7mtLKO+5F3LYqWWkrBcfa72U3l8RgzuuAg/uov8ACP1PcmtGiiocnJ3ZSSWwUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzfij/AJGLwZ/2GpP/AE33ldJXN+KP+Ri8Gf8AYak/9N95XSUAFFFFABRRRQBzd9/yVPQv+wLqX/o+xrpK5u+/5KnoX/YF1L/0fY10lABRRRQAUVU1TUoNI0q4v7tsRQIXPv6Ae5PFc9oXii58X6Wh0lFs5FAW7mfDeS3oi/xE9cngZ7nIrWNKUo8/TuQ5xT5epu6hq0dk628Ub3V5IMx20X3iPUnoq+5rmtbs7s+JfCM+qzrLJLq7p9nj/wBTGosrpwAD947lU7j6cAV1Nhptvp0bCAMzyHdLNI255D6sx6/yHasbxR/yMXgz/sNSf+m+8pcyjpH7x2b3OkooorMoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5vxR/wAjF4M/7DUn/pvvK6Sub8Uf8jF4M/7DUn/pvvK6SgAooooAKKKKAObvv+Sp6F/2BdS/9H2NdJXN33/JU9C/7Aupf+j7GukoAKKKKAM/WdEstfs1tNTV5LcOHMayFQxHTOOaZpHh3SdC3/2TZJbGQAOVJJYDpkknNadFX7SfLy307E8sb81tQrm/FH/IxeDP+w1J/wCm+8rpK5vxR/yMXgz/ALDUn/pvvKgo6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDm/FH/ACMXgz/sNSf+m+8rpK5vxR/yMXgz/sNSf+m+8rpKACiiigAooooA5u+/5KnoX/YF1L/0fY10lc3ff8lT0L/sC6l/6Psa6SgAooooAKKKKACub8Uf8jF4M/7DUn/pvvK6Sub8Uf8AIxeDP+w1J/6b7ygDpKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8Uf8jF4M/wCw1J/6b7yukrm/FH/IxeDP+w1J/wCm+8rpKACiiigAooooA5u+/wCSp6F/2BdS/wDR9jXSVzd9/wAlT0L/ALAupf8Ao+xrpKACiiigAooooAK5vxR/yMXgz/sNSf8ApvvK6Sub8Uf8jF4M/wCw1J/6b7ygDpKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOb8Uf8jF4M/7DUn/pvvK6Sub8Uf8AIxeDP+w1J/6b7yukoAKKKKACiiigDm77/kqehf8AYF1L/wBH2NdJXN33/JU9C/7Aupf+j7GukoAKKKKACiiigArm/FH/ACMXgz/sNSf+m+8rpK5vxR/yMXgz/sNSf+m+8oA6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDm/FH/IxeDP+w1J/wCm+8rpK5vxR/yMXgz/ALDUn/pvvK6SgAooooAKKKKAObvv+Sp6F/2BdS/9H2NdJXN33/JU9C/7Aupf+j7GukoAKKKKACiiigArm/FH/IxeDP8AsNSf+m+8rpK5vxR/yMXgz/sNSf8ApvvKAOkooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5vxR/wAjF4M/7DUn/pvvK6Sub8Uf8jF4M/7DUn/pvvK6SgAooooAKKKKAObvv+Sp6F/2BdS/9H2NdJXN33/JU9C/7Aupf+j7GukoAKKKKACiiigArm/FH/IxeDP+w1J/6b7yukrm/FH/ACMXgz/sNSf+m+8oA6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDm/FH/IxeDP8AsNSf+m+8rpK5vxR/yMXgz/sNSf8ApvvK6SgAooooAKKKKAObvv8Akqehf9gXUv8A0fY10lc3ff8AJU9C/wCwLqX/AKPsa6SgAooooAKKKKACub8Uf8jF4M/7DUn/AKb7yukrm/FH/IxeDP8AsNSf+m+8oA6SiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDm/FH/IxeDP+w1J/6b7yukrm/FH/ACMXgz/sNSf+m+8rpKACiiigAooooA5u+/5KnoX/AGBdS/8AR9jXSVxviLVoNI+JOiXN1b6hLEuk38bNZ6dPdYZprQqCIkbHEbfTAz1Gb3/CeaR/z5+IP/Cc1D/4xQB0lFc3/wAJ5pH/AD5+IP8AwnNQ/wDjFH/CeaR/z5+IP/Cc1D/4xQB0lFc3/wAJ5pH/AD5+IP8AwnNQ/wDjFH/CeaR/z5+IP/Cc1D/4xQB0lc34o/5GLwZ/2GpP/TfeUf8ACeaR/wA+fiD/AMJzUP8A4xWDr/jHTLvxH4QEVtrS+XrDsfN0K9jyDZXS8bohk5YcDoMk8AkAHoVFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHN+KP+Ri8Gf8AYak/9N95XSVzfij/AJGLwZ/2GpP/AE33ldJQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+KP+Ri8Gf9hqT/ANN95XSVzfij/kYvBn/Yak/9N95QB0lFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHP+KdN1W8n0S80OGznuNL1A3TQ3ly0CSKbaeEgOsbkEGYH7vY1H9u8b/9C94f/wDB9P8A/IddJRQBzf27xv8A9C94f/8AB9P/APIdH27xv/0L3h//AMH0/wD8h10lFAHN/bvG/wD0L3h//wAH0/8A8h0fbvG//QveH/8AwfT/APyHXSUUAc39u8b/APQveH//AAfT/wDyHR9u8b/9C94f/wDB9P8A/IddJRQBzf27xv8A9C94f/8AB9P/APIdH27xv/0L3h//AMH0/wD8h10lFAHN/bvG/wD0L3h//wAH0/8A8h0fbvG//QveH/8AwfT/APyHXSUUAc39u8b/APQveH//AAfT/wDyHVaSy8Vav4g0K41XTdHsbTTL17uR7bVJbiR8200IUK1ug6zA53dBXW0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB/9k=)

Figure 3.5: Schematic of axisymmetric taylor bubble rise

### 3.4 Simulation-4

For our 4th simulation, we have tried to validate our simulation result with experimental work done by Barnea[2] with 25 mm diameter vertical riser. Same experiment has been done by Taitel-Dukler[4] as well. Barnea’s[2] paper was mainly focused on the effect of L/D ratio on flow regime and showing that with the increase in L/D ratio churn flow regime gradually disappear. Due to the limitation of resources, we only ran 3D simulation with L/D ratio 10. Figure 3.6 shows a schematic of the riser.

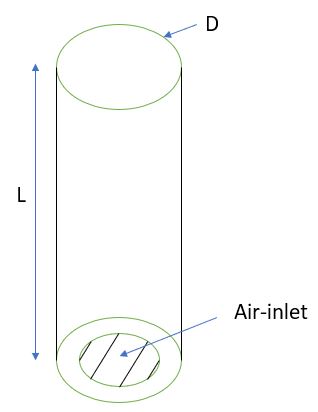


Figure 3.6: Schematic of 25 mm diameter vertical riser

Uniform structured mesh has been used. With structured mesh, number of elements was less. The element size was about 3 mm. With coarser mesh, smaller bubble was causing numerical instability and Fluent crashed. With finer mesh we may obtain more accurate result. However, it becomes nearly impossible with our resources, to satisfy CFL condition. The mesh chosen at a cross section is shown in Figure 3.7.

![A picture containing sky

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhvc3NhaW4sIE5hem11bAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADODMAAJKSAAIAAAADODMAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMTc6MTE6MjggMDI6MTg6MzIAMjAxNzoxMToyOCAwMjoxODozMgAAAEgAbwBzAHMAYQBpAG4ALAAgAE4AYQB6AG0AdQBsAAAA/+ELImh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMTEtMjhUMDI6MTg6MzIuODMwPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkhvc3NhaW4sIE5hem11bDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAIyA10DASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDQxRilor7Q8UTFGKWigCrqGn2+p2MlpdpvikHI9D2P4GvKrjTTb6tdWt/ueSHKor/88z0bj1Fev1yfjjRVn06TUrVdlzCB5rq2MxD731IHSvOx+H9rT5lujooVOWVnszzyy/f3UcU0okSNWKAjhsHGR9OlO8lnuHsPMAi3CQYPReyj3yKfdpHDDayW3ytuAQAYLgjOCf1piwxtoyTJJiQfOJSMFjn+Z6V84ekLK0llI1pb/MbgsyMDzGT6+3pSSzf2KMsN0LL/AOP+g+vJp8VoL2Brh3xNIVbjohXoCPbvUUSf20rNcY8uMFNgbOWz972oAfh9Nk+1yyZjmbdPx8qccEd6iSNheDV3HycqVH9zs35UqSHVGbTbngxKPP29znoP0o81tv8AZPHm5xj/AKZfX1xQAy6/0u4i1ODm3t+wH+t+n/16k1QNdyQfY35jy8hX+7jp+PSlhmXSUTTiu+RifJ54cE9/SnWWNLklhuCqh/3oYDaCTxtA9eKAG3bpJYwfYUZLkp+5VCMqMcjn8KW48saGXtwPOjG5fUP3/HrUdhG1rfGS4Hy3Ds0Zbjy89vqf6UsZQ6ob0qRbOcbicjeOM47dCM0ASWiRy6fO1wQJmYmXP8D47fpTbKM6jFI9xIW+TylzwQehb8aZfNH9uKhT9nypnZTxuzxx65x+FS6mfLnLwOVfy28zb2GOCfp2oAWJWu5lglZdtqRyv8Zxx+GOvvTIzKGGnA4RXILZ5KY/qeKkuY0t7O3uIMB48EADBkB6j8etIbVEtRdrMplDGXf/AAsxGCMfpQAM01sz2UOfnX9w3dfX8BxSxt/ZLMs5/dSY2EDgNjkevJyabBHNe2j3TfLc5PlqG4T0H+NLD/xNG80vhY12YVud/r7dxQBDaxmwvftdyNpulO8doyOfypChGppquP3D4jVPr/F9Kcxl1SEWMo+ZMi5IGAD2we/OKXzv3H9j4/0jy9nttx97/wCtQBHeA3GrRXSD9zasBIRyGBGc+9P1VnkmjbTzlwP37Kf+Wfp/OltZP7MsZLNhvkh4QdDLnngfjRp8aaSslrcsCjjzA5GAxP8AD7mgB2osI7G3m01QZQyiIDup6j6VUIEFouyX5JMskjDPly56DH41Y05Ht7x3uwRHIf8ARt38A9PbtxUJTzNTeNmZbQyjyTGcYkx29utAEPl53yTOQ8m7IX/ljIBk/gRgVsaG8niDRnZ0k+12cYW26bWwOgz64Gaypys8bRT7lOdl2VHy7uxHqc4pk97c2FxZadamcvG2BFCxBOcfcx0Ld6ALEk4ubtrxUVxZjZKmDkt3x9OnNT310IrqKe0XeRxLt9DwM/jV3WY4NHiS/tIwLa6XbIobJ83pj+efes/T400pZLW4YFHHmBzwGz/D7mgCxNZqLVp5ZR5oIkMvbjkD6U22RNUBuZwCpQoE9s9T+VQ2ayTSNaz5jhBLop4Lqeg+g7in3Ugsb7y4G2G5HzZXITHG76dsUAR2cr3erPbzHclnzG/9/PHNLIP+JsbNZALaUbnUDoe4z05qS+iGn2CPZZ8+MbYx1Lj0x3pY44jobu7bWIMjtjOx+pOPY0AF6EtrhVt3aPzF/ehR0UcbvqOBSakipp8UdhgT/wDLvt/XH4U/SSJ7X7ROxecjaxPUDtx2yOaj0zyTIuc7QP8ARt3Tb/j1oAmtJ44NKMpGXQHzQOpcdR9c1FGn2W6S7mVSbkgEgf6v0/DHX3qv/wAxjz/+XHf5ez/prnrj696v3n+mTfYR/q2XMrDn/gPsaAK15btq5JT5VtpMp/tkdfwxUr3I1PFtb5BDDzwf4R3U/WkS8NratbhF86JvLRFGNw/vAen+FRNGmiSfanYmOX/XtjOW7YH50ASG5ksvMtFG6T/l3BH3h/8AWpSr6YxlyXjkXDZ/v+p+vAoNvPJHJeIcTNholLcKPQ+x64oRjqxLDcLYJ8uRjL+uO4oA6PwJqUWgeIre51O2W5+2ssLlz/x7luMjtt9c+ldf8S7nw1d2Mz2RZtYs0/cfZYGZZM87CwG0jv17V5WEmu2FhOzbY0xMyty39059+eK9e8AeNLG08MS2N/HFbSaeQkUNuvz3IPOUjHJPrjOTmgDyCNbgN9vYMG3EyREYZUx90/Q80xUYan/bGP3G3bt77f730ro/HIF74luLvSbDUraxvMS3Fxd27xhZc8jkdCAB+Nc7cF7aJtPKs/2glYmH8Knrx6CgCfVpEulW8s4Vle0G9pCOGH9z365rNmn+2QJY2ilY7mPfFn/lkR1X9P1rTsLhNHLWUxygXdCoGSw7/rVCSI2GqsssZijuVMkQU4WF/QHuTj9aAEkBg04+X88kkYhkjJ5VgMZH+NFmGs0juZv9eg2XO49F7H37UyON7q8F9fKYw0Zhmjxhl4xu9gaSZZJ7oMCssNtHtwp/1y56Y/z0oAvmOcI2oLzIWyFyDiP0P05NRXEbarOl1B80duQ0RxjzPUc/ShWO5NMt3URsodHDdFz9336GpZrltNka3U8SjFsDz83ofQdKAIr0jW4RHZtt8ptzuf4T/dp93INR02G2hGySfgZ/5Z455/KmxCPQQ7zZ8u4YEkc4fHT+dEULaddzajcYCXBG9Qf9X6fWgB4kU6K9t/y2UGEDuzdM0adEn9nPFfgefjEwY8kdv0xUO0/2l/a2Ds3eTt/2em/PpUl7tu7uK4hRpIYeJWByGX0A70ALpbC4lke43B/L2qsnUx56n36020USXf2edw8CMTAoHBx2/Cn6lIG8prMB5HU7mVuiY5z+v40t0qHTrY2L7ZQF8gkZJHp9PWgCPAbUnsUk/dbw7J2Axyv1JOamk32VwYoHUC5bIJ/5Zn/D096YwgbRZJwzBh8zSkZYMDjP9KW2gS9s5ZZ2w8hyc9Y8cgH+dAA0Y0m481AWjmGJCT1ft+Jo2S2CLdyNuLHM5/2ex+o4FNgVtVaVL3DRINqhT97/AGsfyoiMl06WMzKDAcyqD95ewx34xzQAATSyx6quQu3BiA52e/v3qO7H9oOL2LJhtiHQgY8zHJH6VKZp1nOm8kuTtcjO2P39+ooV5NMi+xLukd8/Z2PzfgfQDigBupr/AGosMFu2xtvml+uB/d4780X032zR1S1BFw+NidwQf06UtnGmkXEiSHCTjzCzHADd1qO0U2t8b+YbVvPvBuPKx6mgCZDANICyg+buG4D73m+v1z+FLYIj2My3gzOD++3nn2yfpioGUvrJvmBNkQFJP94dGx6e9Ovmje7MsYPkxMDckNwwxxx37UAGjlrks19kzGPaFI6png/Wls/9IvDbmXfDbu3ynofQD/dxS6q0qz27WWBJz5hHXZjvS3Zgg0yG5t9wwyshAyz57fjQANCQx0zePKky2/PIGeR9f6V6F4B8Zaf4d83TfEMsUdhGim0kaIuytnGwYB47/jXn6WyHT1nMy+areb5p/veh9cZxTrZftCtfMQJxgqvTYVO4A/jQB7Dr/ihLnUbTXvC2n3epyaari6AjMarE2N2QwBZsDjGan1PXtU8UeHZbZfB+peTdR/LLHcw5XvkfNwaXQvivpd9psKTw6hc38cS/avsli7qHI5xjtnOKp6Pq/iLw5e/2TF4dja0u3aew829VCAxyVZiOWJJO3qB9KAL2k3vjLWrCS2kfQ4JUUxXFnPHLvj4xg4ODweo4qrpJ8aaHqS+HDdaOFZTJZNLHIVZB1RcHgIMDn1qt4luPG1nfjXtN0S30+ZkS2upWuVuR5W7ghABjBJJPpV/UvDvjHVLaDULTxHps9zbjzbWSGy2F++3fv+62Bn1oArLF4x8N+I7h5bjRlh1d1YztHL5UcijaEwDxkDOTxS6jB4y0PxANckm0do7qJbad0il8uEA5DkZyck4zTk07xX428JSq3iOx+zXStFIg04qwZWwQDu/vDrT9Ni8Z6zZ3OmXfiDT7W6jQw3FsdPyQpGMqd3zLz94cZoAi1aDxjpF0fE0NxorrsC3fkJJteMdJGyeQgyePXvTNUl8V6NqNp4vmisdTtUt/Kmg09HVjExDb/mPJ4A/Gk0jTvFiQN4Xu9a06EW8XlRQzafvE8IGAQd3zcdR2zTtNs/Gdhqj+GZPEVmv7lprZ3sTIZIs4PO75cE4A9KAK9/4g1O11lPEo8IXbWksSwXAeaJ1K5+Vlweu48k9qzptQ8HHxE663Yn+z7tdyweTJttZ/4wSowxckdCRxWrpM/ibw7C/g260uDUoxGy2tyLlbcSxHOQMg5YcnHpVX+1NTstGm8MeItGa2W3j/ANCuLY/aJIxj90VVRl2Tuw6cUAVNO8P2f9syaafFV1bW1nILzSIVmjxjHJ5HBDMRg8006jrltqU3iPUtMtNSjK/2dqFnaoRJAQcgkscEncMkdqqzz+F9V0MrH4eez1yzYFpZ7MpHv/vTORgBh82D3Iq8zWVtof23wdr7GDUm26mbuT7Q0Yf5FYR5BBLYGfSgDHsbGGG31i4tX3yWaSPHYXnNuySZ3RLj5mYAYyCR6VwN5pdybKDTI5Htrme4DtYSEbGJBIdG6AAHBBOc16NrMGqW+lweH9d01pZ9HdHs76z/ANbNGv3VRRkgkAbmGccZrP17QP7Tv9J0zSjbX2mRqZiGmVZ4XPLRGbuxJJxjPFAFzwFroczeHp3WSTTlCpOMqJV+jc56122K8Hmhm0/WrjV49TmuniCTxzRgs0iltpEhB+Q4BHNe2aPqcWsaTb30BXbMgYqrbtp7jPqK+iwGI9pDklujzsRT5XzLqXMUYpaK9I5hMUYpaKAExRilooATFGKWigBMUYpaKAExRilooATFGKWigBMUYpaKAExRilooAdijFOxRipGNxRinYoxQA3FNeNZEKSKrKwwVYZBFSYoxQB5br+hf2NrjSNHizmbFsckqpPJU575zj2rnEEf9qCPc3lCdsLjjdt6Y9O/1r1/xJow1vRZbZNqzj5oJG/gf1/nXld4sdrZy20sGyaF/LaLPKP8A165r5zG4f2VTmWzPRoVOeNnuQ3AVNRaNZdkcwAlx/Aew+retJeldK2yW2xVmYI6scDOPvZos0iGkzxXEjbtzCR26k+o/pTNNQ3bXKaggJXCRhv7mK4DoHTxDSYY7tDv2Ltlbu47fqaQw/wCjpqwP7/aHc+id1A+lFt/pd40NxIGS2YhMjmQEYyex/CmB2Oqf2UDm227s98f3PpQA5IjqbLqUfPltmANxwOoP40rSf25bloPkiiOeVBZmHOPYU2dzYXH9nQHYLn/UFekXrUjNHobbFA8u4Y7R6Pj+VADbp/7YtEtojsm3K0u3/lljqPrStOr6Z9keIeazeT5ecc9ifTIGaUb9NH264JbztomXH3PpjsKYsLxXx1MqdkrAMp52pj7316fnQBLbvHbaa1tdBfOjX5g38Z7HPf0zRpK8ypdJifau8E5G3+EfhUcubi/F7HGClsxVv7zjHX0wM0X8wumSS0AkjRC8rjOSv90fWgBNO2NeIGZmVVfyww6jdyT6HsPanCON76S1Mn7hn347Fv7g9MYzUl4yPBaGAYcsCgHbjv7U1RA2hRruZem0H724HpQAy63QXX2W2kCxTODLk42Z9/U0+6I0qbzIdiRTDaQT/H2J9sU6KOCWylmuWxL96Vu8ZHp9O1MsY/ty3BvSsjcKFP8ACuOPz4NADpI/7LihnVmdV+WY9S+enHrk0w28kUh1WUfvV3blPH7v/ECi2P25zZ3UgkEA+dcf6z3+n+FIPNaZtMzkKwctnjyz/B69KAGSKdRMeqwKT5HMUfd/XPpTrtF1l18lsx248xXTnc/92l87+y5YtNiUHzs+Sx6L9aSEJoW6Et+6kG6Nm/ik9OPwoAddTf2rY/Z4VBuOC43ECJvc+tPlmiOlmFYwZ0wgiPB3/h+dR20J0y4WeX5RdczFjwj9gPzNIjbbw6o0YSFgUb1HP3j+XagCEFbaB7icElXK3Y67jjjA/EUyFE803vzGSFN2ckHyz0IP94CrF8VnujKIhJaKAsuP+WhJ6fh1qGQj7V/Z6r5kigurKeDH/c/LigCbwvPBqF9Paasu6O7Q+Q0jkA89AOmffrTLqCS9vGsJ2/faf85ZBkO3oPbpVC+Ijht7axXc0hPlkcELnlT+NdDLcW8vhu11SyWKO4t02Twpnc47AZ6gE5zQBSubp723j+yIGuoiHdQfuEdVJ96uWkcUlu0zsJXkHzsR09vwqhZ7dP23z58q6XfMxGdh6gD8zSlH8/zZsrbXUg+QdRx39j1oAl05VllVXlL/AGfPk5/iH97+n4VBn/ibGL/mHl8k9jL6Z+varepAJ5LQHEyE7FX0xz+Q5ps6QJpB8k7ixzGx6mQ9D9c0ARantTUoArMiMv74KMLsz1J/KptSVNlukC/vcnytvQDHP6ZpNL4spPtn/Hyv+vLdfb9Ki0fbG5WTcSybo2k6hc/d+vU0ASzyQHSNkAxvPlKD1Vzxz7j1pNOcafZmC8YLMgLMxP3x657+lV4uNXS6+5aF2jCn++e/40+7he71VbqEZWz4Zf8AnpnnigCQpMsa6iyZn43Rlfurnp+HXNPZY9Zdkb57NcEFejt9fanSXIvvKitGzHIMyMv8K/54qNrg6Yz23GGH+jA/xH+7+HFADYLuVpDpobE8f3nxwqdsepximzOuiMEQt5Mw2xjOcP689qdcW/2GAahz5yfNMf4nX+7/AJ9KfHCurW4upgCrLmFD/AfX60ADW72cUd2TukjUmYZ+9nqfw7CtDQdQudB1ZdfgjjmnGD5LjcNnoCfunvkc1lWc7ahciGUki0+WXd/y0bsf0p0kTfaZLBXCxTfMMH7g7ge5PNAHtviDxHpninw7cWWnabfa3BLHzLYJujSUchScg5Bwa8WfTNRheaPV4ZLTU1RSIZOCn91voa7z4d+LrPwtJfafqLLHb3BE0HBLSTHC7OOAOB19ad8QbHUdchk1T/hFb7TZkjxc3DzxFTEBySAScgZxigDzpTNqUbTqux7fiJmH3mHU/wA6tTTDX9OMFuuRt3NIRyrDoB75H61XunawMclnhxKgQJnqezH8KkSX+xrhHdmeKcYOB/H6n68CgDOS4nlt1XyirlTDeZOSijgMf1qSNF0+1jjVv9KjUiIdplJzgVbv7Z4Zk1a4ChZP3U8OCQEPfjuB1qkkE07rNNzPbgtbKCMSJnvQAWVuLaGPe4L7DLFMOct3Qe2BVqKI6xareOU85R+5VTxG3vVZhFdlY4GVrZTmNiDlX/uj2+vrUi3RjkijgkWH7QSsoAOI3749yTQBJGya42yQFooBhweMyeo9utNLtqkT6XIcSx8Tvjp6Y9afdmPQys8SnypPkdF6s5/iNEsX9l26X7fNIObgr1lz0oAcLloYxpqgNOu1R3yh/ix7DtS20q6aj2UuSQf3Qxgy55OB9aZ5J3f21keZ5ednbZj+eKRml1FftsGSsJDQKOjnvn6c0APsYxp0rQzqqJIu5STnB7qCewHNMsyEvPPnTZCzFbds8DP+PGKkutuqMkUa58tfNDn19B+XekuLhr2wjhgCG6LAFccRkdT+FACFoW1BGUE2zvtwPutJ6/Tr+NN1HYt44VmVWVPMCjoN3BHqex9qlWa3SwNs0X7wNsMXcseevv1pbQotlcRzj96mRIx6ucdRQAmok2bebZsqzSLtKnpgfxfhRPCllZi+hwZY0yxznzAeozSaYFeYCYMWjiXy93ZSP5+tRWSK975bSBrZNxiDfxHPJ/DkUASLC7WRvo5FMzN5oIOVA7geoxTIQdZiF8jFGjc+SvTp6/WiRQL4aasgWBsOo7gg52j8u9F3M2n3ghgOEunAAX/lmT1P1OaAFkjOuLhg0cCAjkf8tAeo9R1pJ5f7TjOnEbXDbZyvOzHII9qddMmhlJ41Jhf5GRf4nP8AFSGH+ymk1KRgxlx5yjoMntQAol/4l76cR/pG0xIncr0DH2otGTTtNe3vRuljXLcZ8wZ6j1oxM7rqfJ2ttVe3ln+L1zimXEbahcLqFqNy26kRg9JDn+VAEumL9lknhuQA5Hmfe3AIe2TTLJVW/AkLPFIWe3DDgev4dMUXZGq7EtQpKKJfMOeeeg9+O9TT3Ed5bCOBf35OFXvEw7n6UAVyI21hodzLEJAxyPlLY+6Pr1qW622900cUuxJzmbj7meM/j0oLwtoUmUZSMhlH3i2ev49aW1SJ7e6W64bzMuT64GCPagDpvCHiiHwNrnny+YbCaArPDEoZ22j5SM9hk5r0XWdR1Xxbp9sdA0K7tbu3dbq2udRXy41OOCuCdxwehGK8Us0S6d/tZMjhSqK/GUPf8e9eleA/iRqksZ0RNKuNYlhTME0Top8sHB3biOh447CgDobDXPGev6bNH/Y+jg4aC5gkvJFeM4wVYBeDg/rVfS7DxJaa2NBk8QnS4Eto2soktkkDYHzorNywTgZPPNN1GHxloniEa7JJpHl3cS20xWKUpAAcqzAHJJJxkVc1jRPF2qWjXxvNNW7t4JDZz6arCUsR90F8rtbAzQBSn0PXvDWvW6xeKZktNXmEbMtnH8s2OML0VSASSO9S694a8SaP9o8Qaf4luLq/8uOCQfYo8eSHyT+AJP4U608JTeKNAC3HjHV5t6BZ4m8sbJB1GNuRyKj0rw9ql9Lc6HrHi7WEvYY/3kaGPZNEeA6/LkA8jB54oAl1Hw1rt1Zx+ItL8VzaheW1rI1jsso8SBwOPxwKgk8P6/ruh22tWHi0z31uvmRf6JGiiQcMjMOSAcjHTIpLHw3qem+JP+EfbxZq9tZC2Q6cFMeZAo+cfd6L8v50xvCt/wCHddsNLg8VatbaVdq4RwYyTcs2dn3e43GgCza6Jq3iDTdN8Rx+Jrq5ktVe4toHso1JbaQVOPXp+NUpr3xnrsFtr+n6Vpa3enl12R3TtIOnmQlSuNxwB7U+bwtqHh3xFb26eKtWSy1WRsuhjBSYDJZiVwAQABjvS3Oia54I1axOja7JNZXs0gn/ALTAaLz5CNvCANljn2oApX/iHUhHZ6/e6Ij27PtvX0/9/E0A4ZZA2BvDADp2PNUL1vCJ8RmPXrOXR9OvgJVgkzA4l6+Y20/cIAAGcZHStyODxb4a1JdNeTRvsGpyHyVMchjSQ8mNRnOW+Zsnis6O/vkTUfD+q+FLlkdjNZh5IyttF/Dg5y21gWwMmgCOe312/wDOXR9VF/NpEkV1a2gQYltySUUS/fJIXkd6xzNaR69/bGqWcmnNeOGjv7fm2tbkDAAU4DcA5JHByK0dPn0a+0xv7DuH07xPAf8ASLra0clyi/eKlxtXf2zioZ7TUF069WK5Gr6LrmC00wAnEq/KYgeEByD8xGOOtAHF6poEp0e5vdYu7e0vLy4YF4nKqXUBvKlQDavHIxnkipfhvqs+ga5/ZWqr9nivo1kjMzEYz93A/wBrNa18PPtrbTbdl8OzW9yp1Kyn+aAkEbJB1J3HC8HtXKeLNIe58QXdzYSmSdWke5TlRGV5LKx42HnaM5wK1pVHSmproTOKlGzPdcUuK5rwL4ii1/w9Dukj+1QrsljXPy44HX2rp8V9XCanFSXU8mUXF2Y3FGKdijFUIbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBaKXFGKQCUUuKMUAJRS4oxQAlcB420MWl9/bkaJ5HCzKBgq5ON/uTkCvQMVDeWkd7ZS20wBWRCvK5x71jXpKtTcWaU5uErnh99sl1BZdjGOF13sp4Y+pP+zRrDOx32BLTqmHK84QnP59K09StjoE1xpswWSSBRsPaUN93Pucc1R0yNbVp4ZVKu+Hyx5YY5/LpXy0ouLcXueommroL/ZFYQTWm3zIz+5CjIOeDx34zSGOKPSzPE+ZgS6t0Jc9Rj3PaoNLyuobn4t3jxahu3PI+tJ/zF/L/wCXDfu3dvNz0z9e1SMltIW1HS/tUxxdNna+P9WQe3pSWTLrSyTyrhUHlojc7WH8Qpt6zJq0Vvbki3mbbcBex7D24p+ozf2VcRSW6jE+Iig4C/7X1oAbBI2pZsWdtkOUnYHBY9Ac+/NSGaZ9+mLuWUDCyjgbPUfTpSXaR6RHHeKS2HxIB/Hu6mlEEsdudQGZLrGcA5DL2GO3GKAFWV7C3ktChfB2wjGdynj8T1NFuy6RIbeYgRuN8e0dW/i4/LApvlS323UojtcAeSme2eTj1xkU6TfqjOYl2rCMxlh/H6H0waAG2SvZzh7tFH2hiIyoxszzjHv1poKNq6XJUrF5hVSDhc4+/wC+elSG4/tS2EEIyw4lkI/1ZHp70r3QaxaARL5wbyvLHTPcj6A5oAjvWX7cXjVniYqtwQcAen4dc0upDY4WyYxvIm5ygz8g4zjuelLa+RbadNa3AIIYqyk/M+eh/GnabujkmjvECy4ypJ5ZMfpjpQAmoMlrp63NjtEqriML0Ydxjv3NNMI/sxNQB/fhRKz9yOpXPpTdMWMXIZyfKkXFujDgL6fXrTFJfWxaKSbI5YDtvHUZ/pQBJbRf2nB/aJO2TduhB58vHGPpTYNviCPzZgY1hbCKD/EO/wBPakvWNvqAsYvlS9xlhx5WPQU/UZTpU8UluoPn4iKjgL/tfWgBof8AtpjZzDKQsRORwSR0I/WpGllNqLGRAZmbyzlcgL2PuMYpLhI9EjN4hLb3Am/289/alS3mjEd/y8xOZMHOY/QD16UALDOtjamwl5lRMIAM7wehx/SqqRPaxv54VbmECXeoxuXqUHsOlWZBJd772LaphP7lsfeXuc/TIpJWbVzFJZkeUg3EsPvH+7n+dAFWLy7m3E/liIXJxAw5MTeg+uCaj0TUPs2r/bZLdJIHbyUjYZKjvg9hg5p0lwHuEtol2peHr08kjjj8qZqEqxrxCu928hkB2qrddwI+tAGleRqdWOmxS+ZYy7nWWI4XH9wH26UxnluLY6W42zlcFsfKEzwfftU1jeJPobadcMkdxasPszBQGmcdUGPfAz3qtarM0Kaiyt9oDETL32gngD8BQBb0/CyT+f8A69DhnPGV9QOwqrDsGogFGNo7lo2Y8b+/156UkqvdIdRQHy2AXyh/EgPUnt3q3evFNaRxwYZ2w0IXsR0P0FAFLUMtqXmx8W0JH2tf73px3qxqqCc28ce7zFJYbT90Y7j36UttPHDpcpuYwJI8+cnUk/jTdLH2SSeK4wrkeaDuLAJ6ZNADp5o5tMiSKMB5CFVB1jPr+FR2c32HS5IJP3k8LFSoP3ieRj8KbZYgvTOY9sVw7AMTkA9iP97NMuh514NQXiC1cZ2/8tB3P1B4oAksUXRE8i4fKzMWV/fHTFSS2cl6HuWXDjDW6N/CR0Ptn0pt7b/2tcrGjYS3w4cd3/un9Kk+2m/he2hGJslJSDxH6nP8qAGwTjVpQn3oIhiZcYy/p7ims0lpdCxhZQs7ExnP+rGOmPw60XDposglH+pkUKwUcl+x/KpfsJbTy0zhbg/O0vuOevYUAQ3+zRo1vIVyq/LIucGQnoSalFoDpbO8gWVv3nnHqp7fkOKLBv7TU3NwFYKxRYxyo9/eqsBL6n/ZrEmO3bzd5/j/ANkj05/SgC1ap9oU3zECcbSqk42FTuAP417LpHjifxXootdM0lNXuUgVdSjlkEEYLD+HcDuB56V4ve7Yr7CS7FmULLgcIPX8eldN4R8UQeB9b8+XzDYTQFZ4olDO20fKRnsMnNAFPxD4em0jxA0WpWIsxcRM1tB54mCx55ywA79B6Vz1oz3txJZTOWSCPKv2kOfve4/wr2PxPpXijxho4dtJ0iNNvm21z9qfzEUjIyNvPB6ZxmvH7opbWFvNZgiSMEJH3f1z9OtAF2CSe5jOmydVULNITnKn09z+lZey4sLptMijVniybeZm2ZU8kf7XWrcIMFpBqKkllTfKCfvZ6/l2FS3lnPe2g1JWzdwjfAiDIA9PfPWgDOItrOzCKW+y3OGizyTJn+XAp8MW1i9yFy5xcbFwUb+Ej9eaZAF1Ly3nSNVkYmFI3J2SAZOfT6U92eSdxLvTagW8O37w7Ee3XmgCTT92otKuoruMZxErDgr/AHsd/rSWzm8uzp853raf6wtyJfTiorl7qOKL7MC12g2gqMhovUfpzVm9MVrpK3lngvHgqwP3snnPrQAEOs50ospSXc27PKp/dx247015TpTLp1tyZVzb57HPQ/rT0tw+mLdbwspbz9zdu+3PpSQxDVbNruY7ZGUqhX/lmAe35UASIDpcz7tzQyDduY5Jk9z+VMt1e0lW8ZAiXHMwC42/3f65NMgb+3oY2fMccJ5APVv8OhqUSz3bfYpRjlhKwHJXt9N3NAEZLLdvqMiA2qkYGMH03+57Ut3Is05nji3pAwWT/b9voM5p5knFobEjNz0TK5Xb2P0A4pI5xpwnglXdjDIAM5B4GT35oAXUXEk8bW255FjZtyHOFx0+p7GkuvK/s63+zDEm4GEDkb8d/wBafbN/Z8piuQq+YDIHHbHUfQdqhtB5WoKXi22758guehJ6Y9+TQBJFFD/ZIdnzMmWMn3W3+/v2qOzjF9p81zPIBPIMM5XaIyvTj2qOT/kMCReLRZSJd3Tfjr9OlS3+1bzZGWELr/pWwZAHbPp35oASwP8AajTC8TIgIRFboePvfWo4WOoPLpU5JW34kfPMnpj0p2qSGzCTWJy5i27R/d/ve/pU91Clnax3UBVWhGTuON+R0J60ARfaJIp/7JiPzrt2sOP3ff8AECnpIdNLWexmEjYt8989cn65pvkj7L/a2f8ASfL357bcZ2//AF6bGkmqQG+Q4dcG3BP3T3yPrmgBbZBoeIpGBjlUlT/ek7j24xS2oaznN3MoVbwqCFXBQnoCO/XrRJH/AG0wLIUW2Y4DcEvjv7dKQTyalGtmr4dQVnkC52MPT680AKZUe9S8EY8gvsJPr/fPpjGKbqG2S8dlRnVFUSFT1+bp7Y61KLoR25tDEpmDCIL/AAkkZB/Klt5FtbSe2nwGjBAz1kB6H8TxQAagyySRPbszSqCSY+cIev446VdstXl8Py22oaJJ5dyDtix0fuVb1H9az9PIs5HFyvklolYFj2A5H4UWaxxXQMiMsbk/Z93QZ5P4nqPagD3Gy1LxR458NxTWMNtolrdwk+dKRcGZWBUjaMbT1Oao6BbeMrEr4ebXtPtJbNAluklgW82IcKwbdycDkdq43wL4v13T9c/sTRIbe6huXZEiu5SixuBkkEA4GB06V3Wt+GPFUk1tr0OuMdQtQ3+ixWyMI0fHmKhP3zgcZ60AVb3wxd6d4li1DW9ZvY7e/Tbe3OnymBPPBwhKjO1dgwSTjNWdb8BfYnXWtN1jWJHiTF0GvyHlhHOA+OMct79Kt2+g3vifRT9q8VS6jptypSW3+yRx78cFSy8ggjt6Vl+HfBOizWx0nXptQ/tW2T/SFbUJQsqk4DqN3Knp+BoAtz+CLbV9DTWdD1jWpb5rVnsJZr4gqXXIByOAeM0mm+D9O8QabDLLrOuSXtmQWSW9YNDOBjOCMjvg9wapWfgnRdL8Rpod7PfSxXSvLZSR6hKuxV+8jANgAZAB70ar4F0TRNeiv5Jb5NHkiKXbpfy5WXI2yOd2doHGfcUAP0rwdHruiyaZrmt6ydWtx/pET3jbA4OVdV/iXOORxkU/S/CNtq002ka7q2tSahprRyyf6cSjZyUkXjgnBOO1M174f6RY3Nlqli189rGx+3eXfymR4sfLg7ugJyeemai1nwRoFpYp4j0m6uprVIvNuVGoS5nhxncG3ZJAzgdDmgCGw0PxVrNleaRL4hgW40u4ODNbGWaInLIRLu5O0jnHGcU2ZvGWraNM7NaahqOmXAR1hTyHtXTDPtfJ37l+XjHWrep+CbWys7LXPCFzfWs/mpczt9oaaR49v9xmwzcjg02XSdat2j8R6N4rku7a5TF28NnHkR/3wnQkHqTzgUAZviHXUv7K21nVfDZjWSVBOqf6UjRKfn81QPlZAeM9MmqmpRaHfb7W31ubTNP1QKlnbeb5SWrekkHXa2C27gcj1rWlufE2hTy6rFbaVqmnau8FtETMyrJuyBIUC4G7OTWdNLYsNX0HxDo9xp0V0u+2vJbZW+zxjG9zITu27+AewIoAo6rDqb6zeXXiLRrXWY9P/wBGnlVQrtbY+WSOLkjBYncM5xiueubWwu9JuYpNXe5soSDHbQgtKID/AKt3YH5hGOSuOM9q6i1exk8P39z4NvD/AGxbqsN9C0zTpPDkZKs+SEwScgZ61jarHcWNlZQXOlLFNCVubLUNLTzEa16yK2cb9q4+9nPegDjtFvbzwNr1veMqPHcqQY2OHMeepHVCeCM9q95triO6to54HV45FDKynIP414/4m0qPWjaQ6fK84hQvHqEiBY5omOWdyOhViExzW/8ADbxDdQXMnhjWQkM1ou2BW4Y/7OPpzXq5fiOWXs5bPY5cRTuuZHo1FLijFe4cAlFLijFACUUuKMUAJRS4oxQAlFLijFACUUuKMUAJRS4oxQAlFLijFADqKXFGKQxKKXFGKAEopcUYoASilxRigDmPG+ji/wBGa7gRRdWn70PtyxQcso9zivMbpTqUirGo2RrvYtn7390/hXuuK8u8W6eNB12SRIz9kux5iBEwsbdCo9STk15GYUL/AL1fM7MPP7LOYvJRe2UC2y7J5Adh7x8c5+o4pxaM6IkJ/wBeihVXuJB0/XvRCrWF61xOqKt0xLHH+r47t6VCqk6wNUYFYcGI98dg30NeMdhLZbF0ub+0P9ev/HwW657dPbFN0pJJEmj1Ik3JXgt1CdqZfHzb5bmE5s0/4+SOj/40/VleaeNbI7XRQ8xBxmP09+/FACacxvJ3trgfurUgRg/8tMdCfXpShQbr+zFkBjVt75zyD/CffntUmoyJ/ZsM1kdkgAaEKmSR6Y9KWSKFNMF1v+dCJTJ975unPr1xQA2RpLO4FjCAIJlwjMeI/Uf4e9G1tHBjh+aORQIlJ/j9/qaWCBb2xmmlP7yQ7sE4MeOQp/HmktY/7UxLe7RJENqqh+6f7349qAHhH05hdOSY2X9/7N6/h0piyuMamU+WQBfLxyFzwfr/AEotmlv3MEzq8cORJtPVs8A+vH60vnTIU0xstKRhpSMjZ6n+VADLvNxdi5WISQ27DB9f7x98Y4pb9vtjZsVWV4h+8JPBHXZ/X8KWJ5NPilsk3O6/6hm5znoPoKImj0fekygRyL5hcD+LuPfrQAt86Xdtbpa/6yTPluv8Axz+fIpXaH+xQI8h0/dpnqJB0H1zTbVXsbppLkJHDMvyY/5Z/wCyT6f41CoJ1BLp/ls2kKCPsXzw34+tAEtjD9p0VzdsRO+RI5+8CDx9KTS3OorNPdDY+3ytvovrzUeoZbUvNj4toSPta/3vTjvT9Xd4J45LQbnlURyjGdsfr7fWgBliBqEklpdrugt/lRT/AMtB6n1/CnCV7i6n0csdigEyHrs9PrUt+qWtpDLZvmWJNsIA37h9B/OmzJHBpbX8BzcKu4vnJY9wfb2oAUtLYBrOHDGQ/uBnovcfhyaXzBpNx5Z3PHMPkAH8ffPuaakBv4TfFhHc4G3sYwOcH3/xp6b9WEj7tsajbHg5w/c++D0NAED2r28TC6cv9rbDMOsZ7fhioba5knhku54wD/qXjA529mHvz1qyC+rwi2O+JYWxMScFsdvx61Wv57hXjVE/eo5ilZV+8mOuPTmgCKxmuV1dJLFFMts4hiwcGXJwMk8Y45Na2rEXOoRz2mZLa4kC3pAwqOBgqPbjrWVLHFp1u0cRyyZ8gldwkD/w479BzWpoeoJpmmzQ6nKj6c/7vYTuJkbn5V7KOQfegCKQyWtyNPhA8mdSIyT9z1H0xRYW8OlXTWzEBWAMcjnlvUfhTLewmDT/ANoZS8hG2Nt2Pl6g59O2aYtu2tWf2icK0kOVjQH5Sw6k+oNAD52zeC8SMfZQ/wC9Zu5/vfh0qTU1+2SeTCq5hUSlznpnoMd+KkF9BcWSxRqs0jDYYh2I9fQUyzkbTo5Yrxl8zJZG6eZ+Pc0AOuJ1vLWBIVy8jKwXvGO5+opiXP2fT2twirc7iixH+Ik/1HNMtybCVry5CpHdFc4GPLPYH169aWQSS3S35i3RxPhMryE7nHrn9KAEt9uhxyRSscSsWiZu7EfdpFj/ALLVL2QFRIc3Cjnlv6DmluYv7ZlJicGK3IKEd37j6YqVLr+07jyFyI4si4X37DPcdaAJFthfObi5XCMm1Iz/AHeuTVW3le8vmsnYtHbNlmP/AC1Xt+tSQzzRu+nLkyrysjDjZ6/hnGKL2NNMsUktc+bEAqjPLjPIPr3oAS/Y2d2DbyBTcFUcY5Qeo7Dr3qTUIUttJd4BiSMbo2HUt61JZRo1k09xtbzxvYt2U9AfpVXSx5s7rcOz+S37gOMZHrg+nTNAE2nhJNMeedsNOC0mf4TjGKh05EuJHiuUY+WmyLf0ZD3H1HWo7v5tbEI4tZADMR0Dg5HPY9Kn1kucGyybtEOMfwqev4+lAHpfgLxrr2sI3h+wNtJPboXhu7wMVaJTgqQvOQSAPYVmeOPCOqabdnxBqcdgYXbEv2FWVY3PG8hj3yBxXKadq0+gm0v9IlEN4MIhAyrE8lWHcZ5x616xDp3ibxl4XjlbX9MnsL6LcFk0sg49cF+CCKAPE4jnV1tx81nudsnoX9PwNXIDJBN/Z0coVHywk/iAzyPrz+VWfEGjSeHprnSb3abq02yqyniUnlW+px0rNs08/RWedhFdZLPI3DI2eD+VADNQt20m8EMBRLO7OQZeVjf2xz6U5FjihM7AFAWjuhn/AFnbd9OtXI7RNb0+RrslnZcJHnHlnt+Pv6VkWRL71vjDIbQbJbfbjKr/ABZ/ixQBJZi6EpaYkyKd0ad3h9B+lS6fk6ifN/49G/49Aenvj/69RXKzyIltaSZuE+cSBsExnnB9Oo4p1wryQRrYnAmXNuScFW/ix6DFAD3O7XTZj5bY4kyOgYc4/GpbtjbXwiglCrdMBJgcx8dR2H40oMZ0Fxx5qZBPcyjuPfNNskSawuVvmKzMB55zgDjj9MUAF46aRcQPbx5WUeVtHQd8/rTzB/Z0f2tHBZ3zMc/KQep/DtRp/wDpplN2SzplUBXbhcfeA/rUUEX2p/sF1s8iBvkAOfMA6D8O9AEwjuXVL4580NkoO8foPrwabKst9uu4W2oigxZHXBySPqOKGaZLj7CsmIy4AO75gmORn1z0HpTz5lizWyDcJyfIwcbeOR+HWgBGkbVCqRL5YjCyZcdT1A/xpJ7n+0LH7LGuJ5ARj+5g4z9P8aAX0p/mzKrx544G8D+bUKhsrhL2UKxn4lbbjZ6c9h2oATzYl0fypYgJVwpiXs2eD7+tGnBYLK4t9RcNIrEy5/iB6fnTCWlvotUVAbfGzOMtt/vD05NMvx9quhcW5HlW7K8jqciQD/D+tAEuljEjLehvO2ny9+P9Xntjt061FpuZdVlWT5rVV3WwPTHTipdV8y7WMaccTgBmcHGE9Cf6UXkiPpdv9gXErcwYGMY5P6ZoAaRtv/sAkBt5Czv6g/3c9MGku3NlffZbY7Pta8P2jI4/LFSpHCdGV3fa5bzT3xJ1xj69qLSJb+wle7yZnBV+xUdhjtnANABcf8Sjy3tUzHIdrpngE9G/OgW39luLrcNrEm4xxknv9BzUWmn+1h5l4Adi7VjI6HP3x/ntToVbUJpLK7KvFbuCecl/7uT+HNACyLMM6icgKwYJj5imOn49akkZ7yVriIKFtSdoI++cc/hjp70wNKFbTEkzLyRIG+6ufT26YpfOfTmlgVS4bDRY6DJxgD260ANunOo+WbeLcREWbPUZHC/j3p9xKl3bRW9uB9oxlcf8siOM/wBKcjHTJAkp3xy5csF6N3/PsKigV7W7+2XaKomB3vj7pzx9Bj9aAJra5WLTQeIbiE4wmcrIOmP0r1bwRrPiXxvpBtL7VotPktQona1U/av9liTlMNg5ryDf/pUeoqqi0ZsHjJOeA31PStnTvEep6BrYu9Eult4wNt47x702+u3I3Ec8UAeknwtqHhzXbDS4PFerW2lXYcI4MZJuWbdsHy9xuNT+I/A9va/ZNY1W5n1kWchN011IEkkhIwFBG0YUkt61pHwV/wAJBZW2o6xrWoT3mBPE1rMYIlbHysqc7Tg+vrVTwl4at9V054tfv9R1G7s5Tb31rdXJkgaQc42ngjBB+tAEd74N8DaxpMVxpD2NvMdssEpuCAw67WBbO09x1pNF0PwJr2gC4k0+yt5HLxsklyfvKSpON3QkZHtVRND8FeHvGV1pOsWWkpbXKCe0NwELIeS4Yn7o5G0H3qDV7H4f2XirSruCPRJ7S4zZy26NHtQsd3mn6Yx+NAFjw14d8GrA2j61DaSajaL88zXJ23CE8OPmxjtg88UzR/DPg2y1K40fWYLOZppJJrSb7SdjRE58vhuNowOeueKXxDpHgJZLLUNNXQXWykZ57VZI1+0IVxjr26474pNX0v4favoNvc6L/YdvMJI7lY3aONpVHJjbJ+XPQ56UALpvhvwfp/iBtDvorS8jkia5t7o3J+VQ2Cj/ADYzk8Y7CoIfDujaXrN5pdvrJ0mHUZGa3nsp1KtGV5gIbOMYLZ469alu7H4c+IPCVx9gGi6bczRlVdgivEwPOBkHscHvUDaf4D8ReCYJbWPQ9LvpVSTYzxhgVbJUnjG7GPxoAVPCWomKXwxN4q1BRLA39m4KGGWIDgcLn5RjJ468UmoJ4v1CyvtMEWlS3WiLGIGRHEsvyA7k3HB4ODnjNOg0fR/E0EV14a1y7g1a0dlSxTUBiNR9+KPHRTgAMOKWfTNRg07/AITDwhq91cTQWzwPb6irXLMQ4DKp4xgg/XFAGVrer+HtZ/szWdV0aW2lgJW5tCjF7iIjAJKcAAktg4PFOvbfUrzUvsHhrVLa808JFe6XbXB3FhH8xiTb91fuj5q1GufEXhmW61y6jstd0vUYo1f7K4gQyO23JX5txOQCaw7SLSNOGqaSbRtB1lzLNZX+Ps43HkwiQjBVTgZ6GgDFNysevi5tLG50wSK08WnzMvlTXanaV/2QRuOCRXLz6bqGiTnxHpryQbJd6xTsPNVDxlj0OTkYHNduVu73TLi6uza+I7DU2VLmSMiB7S4RdqsWOcDCn5u+feuf1PS5tc8O6fa2145nW6Z9SiugfMhm24Llj2KhQB3NNNp3QbnqXhvWo9f0G2v4mVi64kCggK/cc+hrUrxzwfrUng3xSdF1G+VtNmGVJH3GP3cjPyH1B6d69jUh1DIQysMgjuK+mw1dVqd+vU8yrDklYKKXFGK6TISilxRigBKKXFGKAEopcUYoASilxRigBKKXFGKAEopcUYoAdijFOopDG4oxTqKAG4oxTqKAG4oxTqKAG4rP13SU1nRbiyc7DIvyyBcsh9R71pUVMkpKzBaO6PC7qK4u1NhPE0EiHE+4fcIPA9z0qGS5aS1awYDz2byygGDs6b8fTmvQPH+j+Qj+IIMuYowk0IH3lzwRjvk857V54YmEiaz1ZgMr2WM9/rivma9F0Z8rPTpzU43HWjR6dYiwuPmlGQiYz5mT29aTSkaxWeC9O+UKZCevyemT/KmyxnUJv7RgG/7P/wAe+Oknrmku1/trymsmG2BtzP8A3j/drA0F0pWhvmeXlboF4B12L6e3UUII31c/MxtHOVyMIXHGB696feSnUoorezbypt27d/zzK9QaUvDJovkhWRnJQKv3i+f0z1oAZebI75rZGZI5iJJWxwpzxz74xipL8tZ3aSWpRPMXbIPRR/EB7UWyRGwniuhmSM/vGJ5cjkEUmm7blZXvMiSRACkn9zsfx70AFysOmQQ3EDhRu+Y5/wBYDz09c0/7LLFbx3ZYGdCXk54fjp+XaorBfPn8q7cSCPJhGOGGev4dKQDfM1j5uITL8pHbHOwf570AKUl1GAX+10eM7oIxxkD/ABqR1bVGVhxFGuRkZ/ee3rjkU2VpbKYWlv8AMLhywbPMYPX/AOtSlRpE7CJSYpxkZP8AH6D68mgBkk7arAbJQI5goaUH+Ag8D8xT5LgS2JsmH+mbduwDGD/eHoKQh9KRLiVt6sD9ob37H6ngUiCRZl1Un93InzxjsvY/h3oALJ1s9Lniuxvkg4lPXdnp9aNIjaz86C8YNLjzNxORsPbNRXYN1cxalED5FvyVxzL9B/jT9UjOoTRpbsB9nHnM3UMP7vHegBulBjqEhuMhdzG1z3U9ce3SlhEf9oLEGY2WSUyPlMmegPfvTtTle802IWAIuGKuqjquP5U9zb/2XGsefNB/dhOGEnfGe/WgBtyWt9QeKN1SCcZlPUoTxn8elF2BpkkSWjLH5qmMITnLdFOP50+1jjl0qRbnHnD/AFzN2cev6UmnoLzd9uPmzIu3BHAU9/xoAdJCdOVLtTuCJiVc9c9/c5pkltLDGL0/PLv3tGDkYPBGfQdabYf6ZMUkl82O3yoB/iOeCPoOKcsTMw0wuPLjw2/PJGeB9f6UAUxbiad2BdhG3m2oYY39yB7dKhkSO8uBFCwMUfIVhgeYedu7r61duoWVpLOMspaQSQuCMgnr+AqrK0NlZGdUYCSTBC/eSQcbh9efzoA0ZtTm8R6XbizRmvbFc3bbANyHjjHXFRXDrYSW39nuixz4TGc/RgPaq+m6i/h+4ivpN0okYrdoo+YnHQ9sdDWidP2XKXV1iSDUA0sC4/1IPJU+5yPyoAg8q30W6WXKpDN8rseu/wBfYU66WXUTHPahfLgbcjEZ8z1x7YqG0iS+dre+cTImfKXswzjP1HSpre6WyU2CjdKh2wpnll9T+tAC3Eo1QC0gOFYHzW2gmM+hHrR9scwvYxDF2gCDHIA/vfTFJEDpMsj3T5hmOSQOEY9R6803bNFnVJclwCGix/Bnt79KAFWYaTDJBINoZv3BA657e5zTAo0NWvJ/mWYDztvUP6j61KUfUWN0hIjVcwe7ev49KbG41eYRToDHCv76Mjgv7fSgAaCYWYvTl7hW83Cn7w7L7cVYth/aBju5R8gyYk9M8En/AAqnFK810NLdiTCd0jdnTsv6j8qnk32VwYoGUC5bIJ/5Zn/D096AK2TLqv2KMkWpbeGHI3L95fp7VZ1jPlxi13faUO5FjXJx7+1Pu4IrbTWVf9YT8jHqZD0P1zSaVuKzSXPFzkeav93jj9OaAHn7MmksUKlGXgnnLdvxzUGiq8YdLvP2oIu8n+72H1qK32SaiJDuW3Zy8THo7EYI9hS6qHmvI3tySsCsZwvcf3fxoAjsuNUVzxaMGWEN2bPP49a7TwZ4jvLbUZNLTXpdJsGk2I/kJKqynt833VPAGO9crfFJbKCO3G2SQjyiP+WZx1/pTLeYW2jxxyDNxEQCvcPng++Dg0Aeq+OfAupPp763d6yNSmsULsklqkWUAyTleSQBwDXkV83m6vazxA/Z0ANwewz03V6/4OivPFumyLJ4w1mO9gAW5gxEQM9GHydDg4rkPF/hr/hDNS+yNM9zbXMbTJM6/NnPIbAxnJ4x2oA5q4cQ6gDFN5azKFlx/AM8H8elRa5aLpxg1CzxGoHlTNjcSp46HrUejx/ZrKeC/wD3bsS3zf3T6Vd0qOG4zHd5k2rsRH/uev1IoApKYo4YzHKr7AZ0mPHmL0Ib05PT2qK2iMl08zH91dg/ZgD9wjn8KFjit9YawS4k2xNutlYAox6kcDPc0t3i8xFA3k/alB2kf6tgeSfrjFADoi32yK6mUeWreTJg/ek6Z29Oven6pltQ3pzbJHi6C9+eB9aYcW4SIhfMVRFLG38eeFb6das2LpaWcttOV3RHlh0fPPHc9aAE1U5MJtS3nJywQfwHg59utS3CQw2sVxasA0Y/dY5357fj61X0hWtN0d6P3vl7gx7Jn7v9aNOCi/keQMIpDuty54OeuP060APaFG057tZVM24SeY3ADDj9OlPgi+3JPLK2ZM7UGcGPHIB9Dmo2WL7YLUOfsrtyvbf/AHfoetJe/wCj3UkcMojWUKXA/hOcZP16UAPiik1NczPt8pWjJXu/QnHt2oVpb2Q6fKpEca4lcchvQZ+nNPul+wSxS221Qw8sp6+hPsKa8H9mxJdI3mFFIZc/fBOePegBPtTRg6cVXzmJSPjG5cfe9u9Ikv8AZkL2cgWTCfudy480+mKa1vIwGplczK25FJ+6h4IP05NLubVB9utWI8gsIVH8Z759jQAlkq6QZTeOQk5DqzdAcfdptnG9vqzTTgiK5J8hD/B36dqLtTrkSxREBYxuZ8dJB2/nT7qUapbNYwfJcDHmZ/5ZY9f/AK1AEUvOsNKebLei4X/np/8Ar61JelUviIWYROw+1EDhRjjJ7dqcJF/sR7bpKoMIHdmHGaNPZbW0nS8/1sYHmuf4uOPy6UAN1RjaSwPZpzKDG+3+5jOfw60t2EsdNiurV0LxgfOTjzR7+pNGlRLGJY7pWD8hBKefL/l602xKSagEfcI4tywBudw7/gOMUATCyJhW7jbNwSJWJ43cfd+lN8l9Rie7DFNyjylHXg5/AnpUeMag1sZR9jdhhVz97+7+PJqa4Vre78uFlVLldu09FPdj+HFACIZNUOH/AHSRgNwM/vP/AKxpGkm1CJbV0wQ2Jwem3sPqeDSTq2kL5tv+9LKsexjySOh/xp7K9gqXW4sHINwT6ev4dKAGfaCtvHp8iKblhtwRhcf3h/nrSWBj023mtLhjIyPnkZ37ug+tOMc4RtQXmQtkLkcR+h+nJqKWNtW2XsHCwSZjXGDJg8//AFqAPQ/htcaprbP4b1fWrmO2VDKltGg+eLPKmXO5Tkjp2rd8SeBtF0CSz1C3lvorH7Ti/RL+XfLvwqEfN13EZPpXlC6hcz3MM+iXL21xavvM69UP936/pXtOg+HfCniPwva6zqtqLqW4QPPPeTYcvn+PBCg/gKALmt+DtCt/CVzHDHD5tuDcQ3N5J5hR15BZ2ySoPY8Vm6V4t+Ht9o0Zu5dIguCmyUSW6K24cE4x0J5HtVfw/ofhTSdelsdTS1kuWne5srn7SSjJnIT73BUYHPXPerOuaxoPhfxfb6hvgayvYyl2kEXmBXzxKxAIAAGMdeelAGf4S8Q+BLLTZtN1CbSCLGYwQXE0S7rlMA7+nqSPwpuna/4E0rxPd27XGkyaZdjzoG8pXEUnVwzEZGSRgdOD0q74g8SeFr1rLUNPnX7XpztLFE1jJslyuCpwnpnHvS6j4u8IeI/DLJGy2t2yb4t1m5NtMBxnavVTQBRm17wJpvi9Lq3uNJl06+TZcKIlby5R91+R8q7QQcdz0pLzXvAlp41s761n0m4tryI21wvlLstwuWEnTqTxWhZ+NPCGs+HDZ6sm2by/KnjezckkfxHavGcbvxqDQ/GXhuTQZdH1udjdxI0Dz/Y2zMpGPMUBcgc459KAM3XtS8BHXra8tNQs0srkCK8Fi5jkBHEbArjaoyd2Dz3zUkPhbwzb31o9lfXd1o2ry+TbPBfyjyZcHjAblThiSe9W/D3izwovh06NraqojL20SPZybp4F4VjhepHWsrSrjwLc+fZ+IIvPvonPk3LQTASofulVAGAoIXOO1AGh/wAI9rOmzr4Ui8SFNNNniyM1pGfMkySY8nuBg561n358Q3Nomg6todvfz6ElvMHtmM0k7dVB3AfKdvzHt71JpvhnRb7wxdWVrqRsdS06RopbmG4UfbHUB1Pzk4XJHp0qS1stehsIPFVjrv8Aad/p9pILu0vlzh9oyq7AM8g4JyPSgDA1K98N6pqkc1nqw0CHU4TbalaIgJjlBHLIeFX5fvDnp60eI4hH4qhl1u2/0ayYJc31sxWSeP8A5ZzPGMLt3kc+1a8l+dOuLm48VaLFJpOuKn2u9iUGKOTaMYAO4KAMHPO6svRY9MsrC7n0S53anaQCC5t7nKwX0RbmUh8NgAngEH5aAOE1uwu9WF7dJqNnc2VvczubnaEZix43YH8ePlH1r0z4ceK4dd0SOyuJt2oWy4dCoGVHAIx2AwK5vWIprfw1AZ5G0y5mu0ktriJN0Fxbqco+3BYLGDnnnnvWTbtf+GvGC6siRqiR+ZfwWvygR8dS3Utw+B611YWs6NS/R7mVWHPE9uxRiobC+g1PT4byzfzIJl3I2OoqxX0iaaujzRuKMU6imA3FGKdRQA3FGKdRQA3FGKdRQA3FGKdRQA3FGKdRQAuKMU6ikA3FGKdRQA3FGKdRQA3FGKdRQA3FGKdRQBFPAtxbyQyZ2SIUbHoRivGfEGly6PrR0IBjbOm6OcrwU/ue5A717XXOeMNAXV9N+0wK5vbRGaAIM7/Vce+BXFi6Ptaem6NqM+SWux5F5h0wNp0PDSf8eoPOfXJ+uaVTHoL+Wc+RN9wdSZPT6UC3lv4Ptsq+XeRkiND0jIOCPekTZruZcExQjEYbgiT1+nSvnj0RbaE6TcS3NyQEunG7n/Vk9B79etIpY3cd9MgEUj7dmMbD2cn8P1prE65A1i7FWhI8+TH8Q9B6damN0z28mnxgfa0ATGMgDsx9sUAR3myW9a6jRnSAiOVc8Nz6e2c5p2qETzQiFTL8jb2Q52oevHqR0p0My2VlNb3C5aM7R6yA8Bj+JpdPC6aXt59qALvVyc5HcZ9BQA66aL7PC1m2ZwuIsenv7f1pGihfSlnt32tnzBI33ie/4npUOnAQ3G+5i8oSZWDnjBOSPqetOjMLaghCsbeRj5Q/hL45P0x+tAC26R39nPdO2ySTglhjyyvT8R60ltCdVik+2j5UwqLu5/3j7/40l6UivmiDN5VxtWUKPuen5+tLqWbSRGs3VZDHsIPRV/vn6dKABN+ozNa3BXZbsVkwf9Zx6dqasrGQaO2FbByeuI+w+pFS3UaaZb/bLbG9VCtuPDjPc/j1pht/JtUv0dWlDGRnHPyHkgevtQA77SbCU2L7pDJxbAnJIxzk0yzQaHGYJ2DCUlkbplsfdpEjOqWo1FeJ1z5GeiYP6011XxAiPESiW7ZBI5Z/T6UALYJ9gumnnO1Lz94S3AjPXB/OkVWXVGvnBNvLIAobjacY3/p+tSyTnVlNmmE+8s7AbthH19eeabJMbvTW08DbcldhT+6B0Y+3+NACXOyW6cxo32ZXAuCp/iHIIH5c0/UXxcJNay4+UmbYOqeufXHSiGZbKxmtp1y0fyj1kB4DH8TS2KpZ+Yl8FSQr65UoOgHrgUAOukjgitZLX5W3AIAMFwRnBP60yOFP7MhukkHmJmQSMMbyeDn37UtkE+3bXVsFS0Afsuef16e1RoI/7UEe5vKE7bVxxu29Menf60AP+zi5s5btmHnthwM4CFegP071VkijuZjNMpMcpCSDd91sff8Abp+tWrlUGoPCJNsU4AlA6L6D/gVN1SOOzi+Tb5dyRG6u2B04OfwoAou/n6i0LqdtuwM5X7knoSv1xn2rTtr268RTy6AWW3BbzopVXhNvPyj+76DtVFyNOtp3xmWFdjAnmZD0J/E9famW1zcaXpbPbLtmlKyqMZO0cjDHnA7joaALd0rRW8QgAguo5THtK8t16+metK8FutlHqFqAJV+bzZOCw6HPrxVpYXu7WLxLJljcELPHj5YgON/6frVOERf2q6OS8DSEIhHCvjJ49MUASs39uW+bdzHADlXxhi46fTFONxLclbJdyyIQJ2HZcdQ3r0qJryPS757WPaRMQYox/Cx659BUk8LWA+3lyXzm4I7r6AdPSgBBK9i406NWbcv7h+mPYn1HWiUvpCJIMyRlcSAdWftge560eU2pQveqzKGUeSo64Bzn2J6UsWdTnDTKUjjTBAPBY9R9RQAyWA2ViL8nM0Z8yQ4wzr/dJ/EflT7aBL+xe5mOPtHzqT/AByBn0yKZEZruRtPuASkY/euBw3ov5VFMTFqQ0xCRHcHzNwP3MfwgenH60AW7Qm+ffcOreUcKg6E/3vx7VWvncag8kBKW8YC3ZXg89CPU4qxe4s5hLbsEeQBWXHRR/F+FTMILPTXcjem3cx6ls0AMvViFrFaIn+sIEajgcc02xmjtrWXzfldZGLjuxJ6ge/YVFpMTwzGK9O+dEyhzkBM8fjTJ8TTvdrHmJJVV8nrtP3j6AUAGlxPZXO26HMwZo2P8Az938etNlVpdYTUQD5MBMZwM5GPvD25qfUo/7T8uC3c/u2Du6/wjHT680pu92mCNY1E7fuzCOqnv+Q5oA0tH1lbLWmnNzeQaeFH2l7Cfy2ceuRnO3nj3r1XWfhzZ6/4fDw61q8rlBPbNc3RkVWxkHbj0P614la7dHsXs5cPJljEG6S56D613/wAPLDS9bmbStZbURepH5ySJfyqrJkZBAYAEE4AHYUAee6vFNeTQ24iZLi1ffNE/DIOnT146VNf3CzCOay3STopyqnBVT1HsfSvRPiT4WttANpq+mq72yxfZ7gk7igGSHZjyxJOOa81sSNPme8mIWC8Jcu3AT+6Pqc0AW9RgtZdCWe3Gy4iXMBjPzbu49+9UNOmR9MUuzSpOSJmcZKSAZzn8vxq3p5EGpL5kW22fPkFz0JPTHqeT9KqakILXxAjxBhaykpIE5USEY6dM9DQA2CEtO2ozZcRx+XLFIMMVx945/lRFme8hEbCRrb94hK/6xfQN2xnH4VLco3lGNgwkgR45D/eTGAx98dKj+Wwggt0O6RB5kGBzKO6n8+ntQBPet/aot3sWOIsyOQO2Pu/X2qW4mW4sbeK2iHnNh4484CFfX6elRWVzHYRLJI2Yrol1baFIb0wPpUlsJba+8+5UBbgnBIx5foPqc0APQWq6WFYsGRicfxq/t+v4UkCRy2s/2r/j52nzNwzjHIx7VC5U3xugmbdZly+eOBjd+HSpbzZNeeZErOiDbcFe46gfgeT7UAJpwW6kc3DeaREoAYZ+Ujr+PpRax+fOIJZd6WzFkPdz6j2GcUmqNGYozatsZ4yQ8Y48sDn8cdKkuwkVjbywf6yPBjUDBk46f1oAiw6v/ZkDARjpJu+6M8r7n/GiSX+yJvssKhUuHHkcZwx6k+w44qRII59IM6Mwd/3xcjByP5dMU20hGqQm8mZQ74KBTkRkd6ABmGibS7sbeQHOecSH0HYdajijOlu+pXX/AC2Ueft/hOeo/Sktm/t5ZVu1wlu+0KD95v73/wBagO2p/wDEtlOWhGLk4wD6Y/HFAAUYagmsY/duAgT0U/xE0X6m6vFuoP3sECYdR0l56D1qWO5aNl0lVHnquAx5XZ6/X2pYZV0tfsMuXLAtEVHL5PIx65NADdSIvPKS1BeSMCTKtgBTwfr3GKfeSxmzhexTMwIWJVOCv19vUVHpsbaVmG553IXD+/dR+HNFgBBdPcyoEiuiDEc5wT6+hOaAHbYDog8tirAko2MsHzzj8c0+1iW5iumnwZCxVtwz5eBkDPt1qAFf7QadkxZI4IdTxv8A73sOopb4o1xI8bsI/lSUoOAd36n19qAH2kIv1P2mTf5aGIYPJB4Lfj2pId93cmzmKtbxLjIOPM9OO4HT61LqG23mhlgYI4BUqB/D3b8KbPDHZW8c9o2ZQCEH/PTPJH9aAIwHTOlowj5yhzz5f9e4qSSaSwle2jBIkX/RhjOD3B9B0pq25bT47xWVrpf3hkByPfH4UsMf9owy3kTje/8AqgDwhHT/AOuKAI4hHoId58+XcMCSOcPjp/Oup8BtCniRLPxA7y6ZqLljavLiBHxwXB4bOAB05xXLNE2uRBX3LCi4JIxmQHqPbrStO2p79OXMUsRHmup+7joV9eaAPafFvhPwXFarBBBotjfQSxz+TIUjaVVOdhz0DdM1a03WPAv/AAityNNisYorpSJrG3QNJIw4wIxy3I4wORzVD4cz6BdeEJTq8Fq11Ys32l7w+dJs7OWfJAOCcdBVa28SeCNA8XS3lteaXPbajIreZGihrN1XAxxwhAJJ9TQBc8M/Ea1sbEaTqlrrE13aDAkNjIzzR54kK4yvpz6VDYeOtO8NarLGljq39lX0zS7pdPkVop3OSOR8249AOmO9WfEXii2u7uy1rwva3erHT2LSzWUeYnUjDI75z8oJYDHXFWNR8TQeKNFi8rw7r5jLJcW1xHaA7XHKPjdzjrg0AZ19450/S/Eya3bWOrR2csfl3yNp8ka5yMTMSOSANuPena541shqdlremadrAltiRcr/AGdInnwkdC2Oi5LVe07x3Nqmn3Gn6p4Y1aW7g/dXUcdqrgZ5UkE9SMHFZnhzxF4sFxJ4ZstBjZbKAMkusTNFJPGSQCVAb3GM9qAJtY8a6dqEtlrei2Wry3torGDOnSmOaN8blzjAJAGG7VBq/jrTtWisNZ0nT9Va7tHzIqWEmJk5Dwl8Yxnr/u1e0TVtX8Gk6X4g0xrmW+mluLSLS2MxVc5ZcNjAXIxioLDxTJ4X1BbEeHdZXSryRvs6S2wDpMxJKL83zA/MeTx0oAwNVufAd3Hp+s2WjRQQ28waSK4s/JW7D/JgMww20nd36Vc1Sz8N6X4mtLvT/FE1vp91mG6FpqS5Q8CJQB0QZPsBVy31yHTNans9S8KanPZahM01nHcWSkpJj5o0QnAUAZyPU1TstS8D2F1e6LrAsBb3zSS+ZLGqy27Ny0T4HyEZwMH16UAJNoev6VFH4WTULa/0e8hkmjDR+W8xL5EYlJI3HOc47dKydd1K31Ce1i8XaBLJrOk7ku4oLYyLPCRtDhwMALkkdeRVrQNF0bW31XR9F8QzC4tSDb3XnNK0sRGflVjhdpwu4c8e9WLW58VWkSeIAkGrTW8XkatCQFmVATmLYBj5Qd2epzigDPmSS+1DTNL8KXlvqdgsay2tvPKGneLAMsbPn5FxgbSOa5DXklvr3WI9IllkhnwY7O8QsX2AKzRMcZZSCowOldW11oUWsS3i2c+hRTwm50W7uV8lDMRl9xB5UnbhTke1UNStbmbSNQa8X7dc3EyCzktx5c9vcFM42LgBGG5uDzwcc0AN+F2v3VndQ6HqdyskVxD5lmineU5OVbH3eB0NerYr5x1hLzT5bHUNOuDJaQjyra4RAjqRyVkx/Hzz14Ir3Twdrq+IvDNtfZYyY2SllAy46nA7Zr28BX5o+zlujirws+ZG1ijFOor0zlG4oxTqKAG4oxTqKAG4oxTqKAG4oxTqKAG4oxTqKAFxRin4oxUjGYoxT8UYoAZijFPxRigBmKMU/FGKAGYoxT8UYoAZijFPxRigDyj4g6Pc6fri3lmj/ZNQIFxKMYhYDAx6ZA71yV46aKYhartjuCUKjs396veNW02LV9JubC4DeXOhVtpwfzrxJtLuY724tddiC3ED7UTsF7Mv+NeHjaPJPnWzO6hPmVn0K7wnSY1u1G/Cn7QFODIfXn8aTyGtXfVydzuoLoB/D7e/So7NjqV1Lb3PzxWrFSrc7/Qn3GKliab7R/Zhk+6CxkDclc9PbrXnnQDLJezC/ib91EuY0YcP6mmzt/ajK8MPzwIJF3dSTyF/Tmn+Y9lcPYxqzedzCegX2/DrRGX0dfLbM6Opfd3L9+fftQAXkrXtvBHahTPnJJB/d44J/pTjNbtYLbpFiTPlrF3Vhz19utERktLgTzn93cDMjY+63b6DFRZaO4F9IgWFpT1HIBGAceuf0oAli8n7DPbXJ8uRR+9buc/xD603TSJmlNyjCWMbBu/uY7fpTLoLczm7VT5Nu/7wg4Lle/4UuqS+aI3tQ7ugDOYzg7D2z+XFADdOjWacxyuJIETECtnLD+9/SgDdf/2eZAIIyrp6n/Zz0wKfqOxbO3+w484Z8gL06c/pmgqh0BH481QH9zIPX3zQBHPK1nctYQHb9pP7or0i9c/WnTyJocqeUn7qfCLGvZ/7xp9rHDPZST3D/vmIeRsbCjAYHHaorEPq0by3ajdGPLCMPut/eH50AO8pdEZ7uV9yzuPO/wBknuPalUTRypqUoPzEq644SP1HfsKasZ1PdYXRyluBvZWyXPY57fSnLcyy3B0tWw8ZAd14zHjt79KAGTRtc3X9qQDckahUU9HGeW+mD+lPvW+3yxfY1WVVUs7dyp/hH1pfMazP9mKhcSKRCx447gn1HWls0/sZTbyEmHbuRgM5b+L/AOsKAFuJorq3ijtB++IyhH/LPHBP4dKSV4H0VCiMmSu1B94HNNsg9nMJLxFHnsRGVH3O+Me/WhZEE41Axj7O5wvqCeN+PU9KAH26xNptys7FCXcSHuD6j29KLKGO6jcXfzSBduxv4V7Y+vBqK72NqDyBGaNXj8xgeCR0Oe2O9S35RrpHhLllXEpj5wh549+lAFLBmu5ThZpLX5RkHMidye2OT0pkxMmow20CiSKLEkbng467B29ua0L8x2tklzZFVkUAJtGdy9+O+OTVZv3do2TuRwJ4WA+9J1OfxxxQBHp9w39of2Sj7NPvyY5GJ5BJyT7EdKvalZf2dbTafIJAI2HkOPvOuRhs/WsjYTZrLIkaPI24oRgCXtkdhjNbWmtdazpp8+WSXU7EB44y3yhM4JI/vYz+lAEMaRSaXIJNqTRscyN13j+L86dC76mGgmUpHFgSq3WQ4/lUc8yPfrOISY4yofIxknufTbT7y5FpdNcW48wCPMqKcDtgk+vtQBH5zWl0dLj/AOW2TEf4Y09P50+VW0qQGD5w8W35z/Eo+X8+9SyWBeDzi4+1cN5p4x7D0FMt1XVw1xONqgNEqq2cdic96AGyw/YLKK5QnfH8zjPLg8lR+P8AKlhgW/037ZMxWWVQ+7+4Ac4+nFNtd91cQwzlStvk/KepBwPqMdfeo2do9SXTkYmCVySV/hGPufp+tAFnSX+1+bdyFS7nZgDjA6EZ9aisVie48tnLRIxMIPRjnk/UHIpNQxZXUQtm8vz8I4C9EHcHtjNTX8ccNpAtuMSBwYMdC3v+tAEerJJcTwraNh4iWkI7Ljp+NTSXEX9lxiKIFZgEWM9s+v8AWpbWS3iszIjYHVy33i3v71Tsw8WoCW4RVWcsYjjGz/65/pQBJbSJpzTrdEL0YP8A3xjH6dKTMsV2l7LGFST5WH9xex+uaS8R9S80RqrLbkFAwyHb1+nUYqU3YvP9GtThyuZNwxsHTp60AQXcDajcGeMEi15hI/jbuD+QpJZG1baltIVWIZkdCQQ/936daljnktLV7XH79PlhGMgj+H/69QgJoR8x8rDMMufvHzPb260Ae3eHtJ8Gaj4ft9RgtbexlurcjbLcZePcCpyC2M15D4q0RdO1b/hHI5xcQqFkiuozlWQds/3gOtaXgO20eDxOreKbG1uY9QTa8lzjy7dhk7snjngV3PjHSPCl3oMZ8O3+nwXVhve3trWVCJd33lCA8s2ABQB5I0xuLdbIKBexH5cf8swOjfl/OrkUltLobW93GiyKu0xc8P2x364qhAsnnNqwjZWdtssZGSijgjHrkU7DTanb6uoIt1G3pk49cfjQBBp6TWUSx3UZW5tmy6uwIZH7++MUqWoa8gcFlaNWkg3HIPPQ/wD1qs6zGLy7hv7GNJfsnzzOCBuA5AB79KgSWO5WGOy+aNmMsbMceU3OQfU8nigCFZEvpVWMusEz7y3GFkH8J9uBV6SaTVIms03RSK2JmA4AHp9e1UXMFtaxDDJHP8nlZ5SQHIJ/SrEFw9oj3kyuZN224jJ3EejD0HWgCdp86Y1tJEpnH7sREfe9P05pbeWO0juYboYYHJz1kB4BP1PFN8udLgakckMQCmd22P29+hpLlXvJnnt0V44woBI++Qcn6jHT3oAksAttIYrhNjuMoW/uD+H8KhsNh1PzCHVHRvKQ9FAPP4k81JcSJqThLVQ7RAM5PGAf4Px70t1PHd2UMduuHkbapHWLHBP9KAISU/tPyfma2lkLEj7u/HQ+3Ap9+BDfeUjhEul2yEj7gHpjoTnvSqbdtDjiIZSMBY85YMDkA0achmsbldRIWZmZZTnBC9vwoAZqUn9kRJNZ4JfCup6Hj71OuY10uJb9MsRzOf4pc9P1pNNVbsubzl0UxqhXb8mevv0HNMs2a91GezuD5ltCMx553j3PegB/kn7J/aeR52fM39/L67Pyp0YfVY4r9G8sRndFGfUf3v8A61Rb2+3f2Rk4z5m7ts/uY9McU+aY6ddNZ22A1wMwLj5UPTH8zQASSPrMSfZ90aR/M4Pdh/D/ACp80g1G3hs3jAeQZfg4jI6/j6UM39jsD88sc7fMTyQ/qT6HgURRTWNz9pnYlZifNJOdn90fQc80AIbjdpklq0atcL+7EJ7+mfw5qS0ZLe3mgulBmVd8n/TT3/pUGWST+1Sixjdtk45Efr7ngU6cNdXn2qJFe2iX5sjHmd+vcDrQAaSFWeYylssisofoqdgPp3ptmEa/EDh2hTLws3Rjnn8eSKXU5EvYYxArNujMhZPvBcfd9s1Ldskljb/Z/mnXDQqDnBAxzQBDtH29bVZB9jRjlT/e/u/hwafdObK8SC3kESXJO7j7h9R7nPejMDaIWkVkLEFwTlt+eM/jinWUKS2kv25wZ92ZGI2lMdPwHY0AMu2TRCs0YPkyfIyL1Ln+KmtF/ZER1B/3jsoE+Orc8Ee9LYD+00k+2nzDE20Iy4A9D7n3pls5vbs6fOS62n+sLciX04oA0tFuo9N1aHxFdQLdIgDtbMSFKDkHg/eHvxXuGra74Rm0dIdSEGy+gD+WkBkwCM4JQHBFfPwkYXj6NnhgW3+iH+ED6V6Z8KvEen+HZp9CuxbWsLobhLl2CFsHG1ifvHnj2oA6Dwt8QNHttJ/su9nkmv7fMeRbOPtfowG3gHpzjpVXSfE+s+G9Sm0+XwlqJgvpnuLZXmi3BicupO7aByMDrT9e8aWKatZ6zpmn6v5tqStyo06VPtEWOhfGMLktV7VfEM3jXQJYPCujT3ZZN8dxdg2whfHySJvHzEHnI6UAUdQ8Qa5o+qSa7a+D9StoHwdQjaWJhKBwHADZ3jgDtjNWNR1XWtbmstTsvDd1YzWKyTxT3EsbwuNh4YIxY+2O9WdF8UeJtS0oRJ4YWWSFfIn8zUUV9wGCSpGRnGR6g1S0DWPE3h6YeHG8NRlUG+yD36L+7/ubiMOwOScdqAHm18Y+MdD029+0aJbgSRXShUl3oVOdjc/gRVUeI9b8TaKEufCt5Le2s7GO7spY1EUikgOqu2Rx6jvSx2vi/wAP6vb2NtqdjZW2rTz3TGe18wW8jEHyy+4BiScDpnFF7p/jHwtqLagmt6fKNWvI1u5DYkJCAhAYndwOAPxoAjufEmt+J9Dl0u68J3/9o2rr5rwzRKFkUhhjLZ2ngEj3qO68RDxDpAGt6DLpMtncK8l2yK8YuEPClVy5Unvj8au6rqHijStZTxIvhldoiW3ugt8r+ZHn5SoA+XDHJPPFMutY8R6VrX/CSx+HIvsl8iRXJXUEkDAcRuGAwqjJJPSgDE8ReIPCfiPQ49Ra0ZdZsDxarBIok55Rto+6fvdc9Kk1HTNFtJdO1fwpq40zTdRTyr9YpQUYEHbuVstyxCn2rUn8TXPhXW5tU1fRp7e01Ta90ID9pUALtEu9RgDGBt75zmsWyTwO3i25tbzRRaaZqMRaGe/sjDtm53BWYAKNoBHvQBLfweI7DTn0O+s7HUo9vmaU9vkFX/hCMxxtTjg8n3rDvZrHUNMEWlXcmiO0e3VLZlPE4OPNkJByPZDnkVqQaVdXdxdeHvDPiWK8bTXjvLVbiUTLIFyY405+XbjDHvkdKmdrq5uJdX8S6Za3Wm20JGpOoCsJs4WQwnJyo+Ueo5FAHJeJ7Rm8TzS+WdLnVPs5u4R+4lnxyxU5IDKQoOBzWN4A1m78LeLUtL3zVtZ5DBIgYbN+cZz04J7V2KRm5WZpp5tXFtADc2kynzbiN22qWY/6sKTu2EHGM96891jRrlbZoLeZ9lvcssenM+5kDn5WjP8Ay0DY6qPSrhNwkpLoTKKkrM+jhhgCCCDyCO9GK4D4W+LRqmn/ANiXvnfb7NTlpMncoOPwxkDFehYr6WnUjUgpI82UXF2YzFGKfijFaEjMUYp+KMUAMxRin4oxQAzFGKfijFADMUYp+KMUALRTsUYpDG0U7FGKAG0U7FGKAG0U7FGKAG0U7FGKAG0U7FGKAG1wXxJ8PXl3DHqukR7p4hsueeTF7D2yTmu/xTJYkmieKVdyOpVge4PWsqtNVIOLKjJxd0fPmpSR6fp8V5ZAEqQAQfvqfX1+tPa2EGnR3KyASRnzSz8bs/wk+nNb3iLw8ug+J2hAY2cqbrQPghf7yj2HHWuaQ51doH+W0SUGLHQvj7v06185ODhJxZ6UWpK6J44W1DT/ALWzMJXUMgX+HBzgf40kaNrGyeTdAIeAuf4/cexpLomO/NvbyhBOBkDopzyT9RxUs6/2dL5tvt2yhY9h/hPY/T1qBjFkm1H/AEWVNigHzseoPA9sjmlaWeW1Fmy5uuA5K/LjPX6e/rSeR/ZSpLE25Xb99k8HPOf6UIk6rHftkucmVAR930HsOtACxzi0t7i3kVXeM/Ip6OD90e5ptj5emtJHcfKZF80uTnj0PpjOKVo57pzew9AVMS9yo6/nTbgrq7KIVDRRDcxYH74/hPt9KACwXytTlaeLYs3zQFj0/wBkDoDUUXGsLIOLLe64b/npn/HpUl5N/amni3tlImdNxB/5Zgev1xilLp/Y0MOMzgqgHdH/AL34GgBt4E/tB1ywtpAPtJUZAPbJ7cUurzGwkge3GPtB8t8HqMdfrTrIRxaS9vfkGRSfMB6tk5H1pdMXcrpfhjc7fm8zH3O2MdqAC8jGl20d1EyloV2sGO3zM9z7024hFvY/2ju3TKRM56buPu/Tn9Kj0sm41CVJvuWzMsQPRlP88Yp0ahrz+zjIHthlz6sc/dJ6d+1AD4omvozqAY+Zy0HsuOhHTPWlVp9Wti4UReX91D/z0Hr7A1DO7W+ovYQHYLjEm89F9R9MCppydJmjS0QeTMdu0nhGPQ+vPegB0jvfrHbqpDKf35YY28evYnr9KatyWs1s2RWnLGI8YUEDJP5U8xvp0v2l3LxsP3x9+zfQdKjZZoGF/JkZk5j7hDwB+B5oAfHcC0tZbZ0VpYQAAekuen4mmaf5dgLhLn92WxIWc/eGP6ZxTpHeZ2v0UbbcsoQjlwOp/wAKjvydRC+TEJUiUSEHu390/gaAG6fG8OpETrtgaPFsr9ueR9aZMC11JFE5W3BBhJHyiX0z9e1WNRdbu2hS0P798+W4/g45/PpSbo20JI+DMgCqO4kH/wBegCndlpLpQY8Qvj7YWX7rDgH2pi3MtndLLb3HlyxuRd44BBGM59xwPerEfyRO9zuZdu26V8ZDdmOPb0qtFHKIy2oZMoYb1xy0Z4X8jzQBu3cC6db/AGiziZ7C6jDwq53EuRyGJ7mqlo6W0M0F4FQAb8v/ABA9fyJxTdBiW+mutOuXaZwXNtK+dsDdie3PGPpRdQy3swtpEUm2GZCTnLjoDjsRzQA20Es0i2M25Yo0Dgk/NIM8A+lOvHOn3S/Z2RRclU2dNnuB360k919rt4zaLtuVXfz/AMswPX64xU9vAl1p7SzN886fO3dPYemKAGXMCafCktsf3ygqin/lpk5I/rTUthJo5lZx5rfvmkTuw9PyxRYN9tnYTsrrbELGACA3H3ue/aowoOopaJIPsisfkPdsZ2j6daAH6UV1SxkuLpctKWQjPRfQUmlyCe6fzWZvL4g3jHyjgnH14zUeqE2+oRJD9y5ZVlA6Ko/lnNTasvlQxGzDLOfkTy8dPf2oAaDCNSldwfIEmGJ6CT1Pt0/GrGobrpfsdu2JCQXbGdg/x9KbO9sNJAjQOhwFUdd2ev4HmjT5Rb28sd2VWaI5kI/iB6N+NACR3hh04qsai4Q7BF3J7fmOaao/syZ55zmKRcvJt53+/oOgprLNHNJqbglQMLCRyF9vepZQdRmeJT+4Rc57M/ofpwaAGstxcLHfx/eBBRAP4D1/EiiWJdXkG5SbVBnnjL+305FIl3KxTTxlbkLh3I6Ad/x7U4l9NlEcYZ4pB8g77/QfXk0AVg7an/xLZTloQRcnGAfTH44r1zwT4n8IWnh21i1waVp+oWh8pRIi+YyrwsmcZyeteUG1fT40vBh5Rk3BU4Mv51o+G9RGhapF4jlgjuiqsXjkGcxN2/3gOlAF3xraaZHfg+Fbr7ZpV9IVlmibItpW5257k8msEmSyt3sghbcdsA9VPX8Rya9i1fxH4I8V+HRbm4aMyASRNDavmKTHUELjIyRXj9xp18t7cG/iNrf2zbFRuyjnP4g4zQA7S5ItGtWsrs7ssSgI/wBaD2Hqazo4v7IufIv9sQuHM8EinPlnoAR+NWZkfVJ0uY1wtqwZAD94/wAS/Xip78DxFbLBZsoMLb3kYcKR/D9aAKip5ria6jVFeRg4Bz5TEY3H3PHFQiYzToNhdbN/LnJYjcvQMfXoakh1H7QjeWqwux23SODtXtvHfJ6UjsmlQq3l4kgkKeX/AM9Fb+L3PFAFuCWZJDp8WefmSZu6H0+mcVIHfT2NqisyFP3Bxzn098dazbW3e2SV2bMvmCeEZ4YY6Z/HpWiqyX4kuNxUxn9xt/n+PSgBkTHSPMkuwBG6hi6j+Pvz7npRBvtr1LiXasV1wEUfcPb8MdfegifVUXpGI1IbPTzP/rGleY34/s7BSQJ+9Yj7v09z1oAjYr9t/tFo/wB0j7FKnqDxvHr1xTdTDXN3DNb5MMD4nYdGGefripVuJBYG0I8y4VvK5H3vVh+Bp9tJHpsE1syf6ld4x/y0z9e9AEeru6+TJp3zXBXGFGf3ffj8qLsJDpkL6bzOBiDbyW9R796bpEX2J7hbpgPOPmIW/ukdKbYBl1Q+aCLbJ+xg9B64/D1oAk8tDpP2kH9/GfMkPcsOSuew9qLOIanp8l1Idkk/I7+Xjjg/hUX/ADGCf+YeXwR283+fWnX0rwavDBbny47hcSsv8J9fbigB8I/tgkysDFEMDY3G8d/cdKCZdT32NwGQRN+8bOC47Y+tLdiPS2SSA7fMXyggH6j86J4msLaG7jHmyx/6zafv56n60AL5k4iSwdcyltpO3ICf3gO+OBT4nOnq1q6FhnECgdR6f1+lRm3dYn1GNgbhgGwD8uP7v+e9Lsnv0a6jbaUb9xjoR3P1PIoAfbN/Z8piuQq+YDIHHbHJH0HaobMeXqIuZo/LE6kKSeF54A+oGaknEmrRFIf3IQ53nqHHb8O9JJMb+zitlU7pDtkz1UDgt+f86AIiyjUFnVM2Uj5LseN/973HQU6+VW1IlSyom1rggZyO34dc07zYvsRsWiHmK3lpGvQkc5Gew6/hS28iwafPFfIplUEuo/5aD1/GgCPWZjbRpNYECUgbto/g9cflzT79U0+yjvIF+aHkjP8ArM8cnvTdKVreW4S9YEyAOm7+5j+nSmWIb+02E+fsrE/ZA3T3x+HrQBJ5I/sn7Zn97n7Rnv67c+lS6Y5unt9YZU+0QndCroHVMeoPB/Gquf8Aibf2f/y77/O3/wC112+mKlumNtfCKCUKt0wEmBzHx1HYfjQB7rofxEi1nw/a3MejX1+8kWLhbCESxxP0KEkjnGDj3rO0TxPe6NqFxokWg6nuvJHn077VFsGScsjYJ2ouRyO3auL8EeKh4M1eG0LBdNvC2+I9BIFyCvuSAOeK7nX9Y1zXdNi+zeDtSSaGVLi3l8+EqWU5AJDZ2nvigCtqt1400bXovEE+kaVHCYjbziO7fyxkgiWQ7e2MZ561a1qHx3qaWt9FpOkJc2LGa3kivHc8jDAKUwcrkfjVvTtf8S+L9MZ9M0+z05UBinj1LLFn6EqEPAznrVHw2/jLS0HhwzaMktkMRNcrKWuI8/fBBx1yMdeKAJ7eXxN480Z7a8i0/SrSQlZJ7aUzTQyL1TaygBge4OR2qLw/pviPW9Hms9Q8UtFPbsYJ7SSwicqoPyFs+qgH8aiKeMPCur583RY7LU5sH5JfKhnY+md2XJ+nHam+IfCesaZe2mtp4m1PcZPLvpY1TEEJ5YqNuSAwAHU4oANGsPE9quo6J/bC3zWRaKCxvIxH9pt2GPMMgywGSw49KbpN94z0p18MXGkaPKFjP2ZZ7pgskQH3F+T5towCT60/xD4O1YabFrGl+KtVvrq2ZXib91whOHPC84Uk4qS90bxLPZWup+HNWttVa0Blt7m7U/aZAcFouAFAOAOQDQBm2S+LP7OuvCGpaVp02Q7/AL29kVpY2bdlPl5Ckhfwp9zrz6zpdz4e8QeGdTvL+2XzLZhaLuZR9yQjPy/MMYHUCrN6fGHiDSLHXbF9GuHsJvPSGBJQzsuVaMknsSfypmp33ieeHT/EMNpZ6q1ozOiaduTaMYcSByD0zgDvQBganqXhPVPCcNzezx6T4i0xCJbeL/RpZZFHzxkJjhiMZq3BZTaRYnWvDmox3Oh6nGr3MNyfNRZQAuHkbLBBzz1BwMVfj1ye68QW3iRPClxaaU8Lf2hNI0TblwNrsASfl5JGM81jS2PgbUfE8unW0jRWeqxF47krIn2ebIwqbsLyMtzmgCPUYX0zTLPTtbjW31GwT7RNdWsh8ueJsgGWTgk56KQQTgd6wtUSzvILKWGI6laQzC7+3o3lXDISDLGqLxhBgdflzxXW21prsviCZDq9nqSaJK9zEt0N8s9uU29U+XGc4B5zWMp8P3vihb57NtHmvmjmtBLkpBKDnEhGRiQkZA5GOcUAee2c9z4a8SnW9O/0qxguRmSOQlG3DcEZvXHX3FfQuj6pDrWj22o2oYRXCB1DDBFeHajOP7L1gm2t9Mmvpi0ckGWimRTtaMcnaWb5ucdK6X4c6zJ4b1KHwzqJRzdr5wcH/UPj7hJ4IwP4fWvQwVfklyPZnPWhzK6PWaKdijFe2cQ2inYoxQA2inYoxQA2inYoxQA2inYoxQA7FGKXFGKkBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigDA8W+HY/EGjSoif6bGjG2kVtrK2OmfQ8Zrxi7CporLCAJoyVTHXzAcHHvnNfQ2K8t8f+H4dM1y21a3iVILn91IoP/LU8gheg4B5rzsdRuvaLodNCdnys4u0EbabcfaSBKWPnZ6B8dv0pthEL6ORrpmY7PKCuMMB0Le2aivedUZ+tmoVZgvd88fj0qbV2CXEWwsryKysV6Be7E+1eOdg63X7VcLDLIpW1OU28b/f8On1qOISLMNPVgIVcjg8lMcDPrnqPSprlEtYYri2IMqrsQAf6wHnH9aZLDGlit3DKrS7/ADPMJ4Yng8fTigBz+dbyvZQnCyr+5OeU/vflxgUBjpJIk3PFKQE2jOGx0x78mkiha8tpp93+kbz5ZzjZjoD6e9J5L6xbBpHMap9wr13Dgn+dAEcEZ066+2XX3rlf3xHRCOc/0ppRhqCaxj924CBPRT/ET2qVy+qD7G6FVjJW4PYnHGD9cU1Zi1uNKxiYgx8/3Bxu/KgBl2putUivYxmK0YAled4PORUmosLr5rHLOoBkkRsDZ3B9e/FJDL/Zdq9iBvkXiANwZc9cUWCx6NFJBdNhZHLIxHDZ7fWgB2otmwtpNNAExK+SMYO09fwpNsA0eOSJyrRuXTIz8+TnjvzmlsUNvqTedHsE4zCpOdoHXr069Khj/wCQwZH5tGlAh29N+Ov060ATwQpd6Y01yT5zDdIe6kc4x2HtTbJU1TdPcHccAIMYKf7Q9M0272HVAVdhAfkuMDCg9sn1zinakUtpgIdyNcJtfaOFUfxe2M0ALA0t7ILe4ZSiKd4B++c8fUY6+9O/fvGNOLHzVALS56pnr+PTFOuUW1FrPbkbgAnHV1IzwPXvTFhc6et3HIGuPvtIG4I7/p2oAGnl0/Foql2lc+SwGQo+noKfHIdMYwPloypdGC988j35OaaLaS9Q3ivtdirRLnjA6DPbPembW1qNy++FIj+7I7sOpz+YoAS0haxv2urvCG5Qb2z8obP6DGKjjUrqi3+Clrlk2joCf4vofWpm36rCls6FFAP2geh7DPrnBpvnH7D/AGbj99nytn8Wzpvx9OaAIr797ei4hObNP+Pkjo/+NJcpMWeKPcZI8NvD4Jh/2vXvxU9o0enWIsLn5pRkImM+Zk9vWq1rbT20UkcrZuo/3oYtkbDwR79+KAItQuJrTTdtpNMomdZo/LJAZV5GR/s54rfnWGLQrfUoYFspgQLqFyAWBH3ivdjwR7GsWOAyzkgbRPiSBd2RgckH0ByOKk0zUzF4gSS+h36fMfJL3Byqn1yeuMYHtQBLCDp8oublVBuQTKwH3SOevp7UxQ0t4hP7uyugW2DoT2yf9rPSrN7bh9Tm0yKVHt433EA7iqfwgn1zzUJuDOn9nMqrcEkdMYUfx+x9KAH6qfsuya1OLhV2KgXdlfp2+tPmjtodOEoJJzuWUHJLHjOf0pdLXELm4O64U7ZC3UAdPpxVa1CNqjhmY2zHfCGGFLdwPUYoAn05VNrN9tZXmYnztwxgen0qvoRdpLg3Wd6tiLf1Ce3tTr5VbUiVLKibWuCBnI7fh1zSa8Gmt4UsstLkMBH12f4UAFsUXWJp3VhA74jdjld/cj0yOKW9Je+M8Kr5duVMpIyHH+IqW/aKXSVigVZDKAI0U4yfbHp1pYrhLbTTE6gzxqFaNv42PT65oAluZjdR/Z7ViHkXJcf8sx6/X2qGOU6crWmCyqmYWx1z29/Wm2LnT2kiu3wGXzVJGMDuD+JpzWstzMb47o3Rf3KdfxI9T0oAHhltLdbsk+cMGfJyCvf8u1OhQ6lF9pl3oD/qk6Fff60JI+pPFuXbCozMv+36e+O9RtJPbXX2GLJWU5Rhz5a9yfxoAWIS6hsjuQu2AkTr2dvTH5GmEOs39lFlKS7mDZ+6n93HbjvUl0g0tUuITiNRtl3HO70/XvSfZR/Z/wBo81fM3ed5mePXbn0oA77wH8QLXwpFF4d1OKaS3ILWZt4jI+c8qQOSSSTmmfEZh4mxq/h3T9R8+3jEV59qtXiHk542hhyck5x2ridIuJWurbXInEd5bsWgIGRGR/PPvXsOg/EmHxR4dLHQNVuWdDDc/ZIN6BiMEBsjsaAPFjjSl22jKY5lCwrno3r759aWFk8PyCR8iGcZk7nzPb261p6x4audJ1todStHgtJFLaer8MsZ/hP+0BjPpWPDH/auYLh1lit8g7T/ABZ+Xn6UAN1WKS0u01O5QGGc7ZYY1+6OxJ7nNBEk7xzSkSmEh4VZeTGe/u2Ku213JqEb6WWUTRjbPIVBA+g71mW4uLa4OnKJBc27MYZWGS0Z68H2AxQA65tku1WygnXyt3mo3XB7qffmpEuZE3fZ9sZuMFlZuUbODn046e9KqwQRndII49++CXHR+4PvnPFQpDGHku7hsC4bE+eBARyP1xQBoTH+ynSSM5gbhwzdX7H2z3NMCSacovJH8xNpM2D1yeD746U21U6nJML0rJGq7UUHqD/ER79qSEtc3CWM7rm2O5wD94dhjuMEUAB84+Xqp3gngwgY+Q9j9OtOuFa6ma8VA8dvzCCud397+mDQGnS4OmrkqxJD9dkfv75yKdEzaURZxo0vmZMPOcex9AKAINUB1aGOC2wSo80kHIBH8J9DzUt9KLyySOyJ+1fwdmjPfPpxTbWNdElcTOPLny5kbgB/7tMt0Njc/wBozjYLr/XBuBF6c0ASbo/7D2Y/fbvLzj/lr6/n3p2nqq6fPFfbWnTicsc5PbnvxUOxv7U/tHB+xYxt9/7+PTvmm3x83UVuoj/o9tjzwP488jjvQA/Rw95A32/cZUyiq3BC+uP606yKz3i25fMVqSqhhjeR0+pGOtSan+8eM2zlZkG5to/gxzn9ce9JcNDBY293aq29cCIAZLbux+vrQBH5Z+0SaYxVbZzkNnJIPJX2OafMZLO4+x2jKFlA8tCeVOefoMfrQYUGj+dHIplQmRZGPRvQ/TOKWGFby3kupyBc7cHnHlEc4oAdKx0gvKA0kLgAKDzv/qTTVWSzuUvJXYi44lUcBfQ/gOKbbq2pbxcS8rEAu3sSOWx/KlDS3rtp8qlUjXErjkN6DP05oARhJ539ptFuw21AV52evseT+FNuib6eK8tlWSK1cgkjO71wPbFPRplt205NxlU7Qzc7k/vH68ilFyNLJtNgwSBb8Y3E9vw45oAi1Qf2liOyILBNzSA9s/cPp6/hUl/L9q06D7GSJ5f9Q3Qgjrz24otf+JSJI7tlEcjbkfGBk9QT65qOxjaDUFmuAVF0PkjPSJupx6cUASAxnQXGB5qZBPcyjuPU5pthGlzpMz3rFZJR++ycYxwPpxUf/MZ+2/8ALrv8nZ/t9M4+vejU8vqkYTm227bojoO4zQBPp/8Apvmm7JZ0JRAV24XH3gD/ADr0Twx8V5NL8M2+n/2a1/PaO0B2v5SpGuAnJB3HHWvPb6NmuALB8XLIAw7bPf0+tRtJqEEaW0ccMDsPk8tt7E++R09TQB39j8Ubi28TajeWOhFUugpuonulJ80KArA44G3tWNqHjvxXqGvWEr3VkZ7BmmjxbYCBlK8/NzXMSW93p9mTFfbpnPCeWCXY9s0T6dBbxSXV5NNNM5HKuU68AYB6ZoA6nWfH/izUoU0+6udPkMrb0K2m1oyv8andww6iotU8Y+JryOGK71icTKnlxpZMYd49X5OfrXLyWNhYwrJqE8nm4JAEzZ+g5qG2j0psy3F4d7fdUTtlR6ZoA6C31PVtH0uG3j13UkVBtSKG4IH0ApLTUdW0uykY67qMAkkaVliuCMsxyfqf51kRaZbLDJcXjTKu/MQaVtyg8AdetOj0i3Mbz3jSpH95UaZvkA7nnrQB0+j+NfFejWkptryzggkbf5UlvuWP3HPBPU+5o0fxx4tsmvrm3urKMX1wbiQyWpOSQBnG7gcdK5aPSfPk8+KeWCNT8quxfePUg07yby7jkJvibZRkMYwu8j6dqAOy8L+P9Q06x1G01LTIdXs7yZ5SFIiBZyS4IOcqe1WbDxvoGr+DZtC8a2l07RSMYHjQzcZJXawHG0ELXBrd317CVhhhFuuNzwuTuHcLx1pTqjmONbS2khtcEPcOuPL9/egDuNPfRLnwj/bPh3UYtC8QQqsdxDHKLZH2tuOYzy3y/n0q/dW91a+E2sNR8nWLDXvMvI7lbcxfZnbndtJO5ju+VRg8V53iC5hEWnQw3C4w8z9s+/c1cTUdR0zTpNK0y+nkEqBXVx5oTA+Ujd9z6rQBZ1a3sLnT4oNCWOxmuJktbvS78eWBIF+Wdd2NuVXr/tVn67pktz4ynEc62/8AZcYc2qr5n2YryI0A++M8kjgZJrXvPFMN9r1l/wAJNo1q0Mlp9imMDlpWHB83OAdw2+veq8UUcv8AbpTVra5sLeNbVb1cC5RN2VfA6gk7SxOcZoA9N8DeKB4r8Ox3cmxLlDsmjVgTkfxY7A10mK+fPCN6PButaffNK8kFzNJbzSE4tyoIG9W/ixnPIr6BjkSaJZImDo4DKw6EHvXv4Wt7WGu6OCrDkkOxRilxRiuoxExRilxRigBMUYpcUYoATFGKXFGKAHYoxS0UhiYoxS0UAJijFLRQAmKMUtFACYoxS0UAJijFLRQAmKMUtFACYqrqOnW+p2EtpeRLLFIpBVqt0UPVWYHg2o6c/hx5dKv1XzY1yh6iZSeGHfGePwqhpYMbSR3aBZgoJJ6BT0UfSvVfH/hc6rDBqtnHH9qsQzPkYaSPHTd7cmvKLuZL+ESWqGRY13s+Oo/ufjXz+Io+ynboehTnzRI9O2fbE3B9pR/L3em7nPv6e1PVYjdC2Ln7IrZUdi3936DrUl46TwWohHzlgUCnOzjqR6DpTQbdtDSIhl6BY85YMDkCuc0GXH7q8e3jlCRSOhdewz1B/wB6pL1/7NmWSJlSOQbCpzgHsx9scUsS27WMr3WfNUbpj/EpHp7elM06P7ULk3jLK/C4I+6pGQP5GgBZIhpWb5CZdwAlBPLnPBHbNMNu8DJqbjdNuO7P8MZ9foKZZOb26eyusyxQIDk9JTnr7ije327+yMnGfM3dtn9zH04oAV4zqITVIRloc+Sn97nvSXS/22VNuwMduQ6sO755X8qc8x024i02ADbcZ8piP9X659aP3ehMY1JEMw/d55Jk/wAOlAEl5MupwrawqPNkzkv/AMsyOoOO9NnlFxoZhiG2dh5aL33DjPt0oih/sqVLiUhRcH/SCTnDnpj2zmmoWjuW1aRFWIgoygYYDP3ie/SgCS1eOHTp47r/AFinbK399iMZH6Ck0uFRbSQ3qnzcFSJTzs7e3SmXbGe6F1Ggkto8Bvl5kOfX0Gc07Udl3MDCGdrdN7bTwyn+H3zigBNPYXVwEuN+2LJgR/4gDjd+HSkRR9sFn5g+zrKcJ2PGdn4dakvZQYbeSyQG4bAQK33R3z7UTLANMEsLFXVwd5Hz7iQOfc9KACeNo7p7SN1WO5HAz9z1/E54pLgyaXk2w80zYUKTyCBjP0p0EKXNjcPI4ErO2ZGH+rI6c+1R2iJqizG4LbkXySMYwOuffOM0APaIaZMt0MuJBtnZj37H6k8UyS3eO4XVmH7zADJ2VO5+oFLBv1GaSC62tBEuBtOPMPrj0/rTVlYyDR2wrYOT1xH2H1IoASSNtQu49RhG+O2b93t/5aL3/HNJfY1hUksm+S3O93/vY/hp3mHTA2nQ8NJ/x6g859cn65pYTFoKmKTJjmfMZ6/N/d/+vQBXumSVREhREuwDGGz+6bvnHc5plz+7hdI03TFlXYSMxuBgMO2CP51KtkbWab7Qyp9ry4c9IWHTn15qvG32mS6ubmPbEiiKQjhiOPm9+lAG3YXEN94ee0fbBfWLgRFgS5HHXHUnJFUwJYN96TmVZSsyn+Fc9D7r7VFaX32K8lvmi3tAB5UiNhSxOC2zvkcfWr+phLmT7Xb5itrgxGaMLwjt1X3J7+lAFGdjfWj36cRFSm1fvFc8n65H5Va1LZJp4hi3NIwBjEeM5HNV/OOnTDTowF85sQEjO0HqT+NTWcKWWoNE54EQCOTgbc5x7nvQAsDwppDmZd7BT5y92buKZpYFs8q3Dt5kgDgt02e304FRyBX1RbwoxtvuuxPBYdDj0HrUmpRi9nWKJd21NzsrYyv93PbPWgCCyUwavLcuCYbpysX+zjnPt6U+5PmXclykatDE6h29cdSf92pL6RdQ01IbRj5k2Cn+yAep9OlIkyxaVJCUHnbjFhh99jwGI9DQAt6r6jMI7RwvlKH8wDo3YH2INS/bTdIbeBSJsbZQ3/LP6/8A1qiglGmmdLng7BIpAySAADn8eKbH5mmBr27Y7JRmZQeEb1A/KgB4X+x2RItzwMpyCed3/wBenfYn+wM7uouSd4lJ+6e36cU5bcal/pE/EbIVjUHnaepP1qGIyXkIsZCoVeJCD1UHgD9OaAJLLOpBp7pCEBKxxt6ev1qGMb7oadJINsb+YuO6joo+nek1KZ9On3Wx/wBftVlH8Jz94/XpVm8to7a0WSH5XibcD/E/qM+poAgumNrfCKCUKt0wD4HMfHUdh+NdF4Z8VDwJrUU0No91b3ii3eBGwRjkFcnGcnkntWJYpFc2Us7/AD/aOXBXA44xiq+kgXsTm5kMpTKRlhj5f72PzGaAPWfGFtrPjrSQln4ZutOvYFMtveTyxsMdSg2seW4GeleTXPl2FtDNH+7kjcpIqjlzzuX8/wCVeofDzx7q95p50Sz0aK9l0/8AdRsbtYd0Y4GAR8xAHJFc54y8G6hoOrxarqMlu9pfSELDAmxYJTzjGTnjOWoA5Jl/sq3j1HIdxzcMnWXPSpLy0mv7WPVllxLCPNjix8u3rg981BEiTahJZFswRyElGHynj7g+nWrUEs0F0NMSQKJCXWQNyqf3QO3saAKdsEu1SRi0UUx/coMYjk7/AInk0yXZco0MhMfmHF2qj/Vt2P1PFPvLL+yrz7NEx8i8O5Jn6wv67vzqUuttEZPnCKxiuwTuOcdR6nkc0AVnlNshjgkEd0i7COuYx0c/Qc1duIks7WG7hwGjALkdZFPUfieapR2yq/neWxmUBdjj70P07nFT2TLPeozyE2wB+zrIO/8AiORj0oAlEAewN5FKvmu3mhx0HqB+ApIoH1SEXcuY5VbMKk8KB649e9RsF+3f2cz/ALl33qFHAxzs9sYzT7kyW9/5NswC3BG4A48v1P1P9KAEdDr1vtdTFHE3YjLMPT2pJJP7UgSwfh+lyF6x46U67ZNCBngTdHMwDJ33euaRohpcn9oO2fM/4+Wx+WB9aAATf6G+lkf6Rgxov+x0DGltpF0qwa1uRvkjUkY/5aDPb86Z5Tf8hfH7zPXt5X09cUPG2p3MGp23+rg+4p4Mn+FAE2nKLKWeGcKCw80Fc7QPTnntUViFS/DMGaKcs0Jbovr+fGKW4mOqKv2QgLGvmF9uSfVR6H/Gn3DR3tjb20IMckmGRVOPLK/4elAER2NrDg7lhEgYuful8cD6VLdlIborFKUjlP7/AG9Fz3+p6UNLEdDkjaLDDKmIHDM2f69aW0EIsplvPllJ3TKf73qP0/GgBt+ospENqwiLRFSB6AcN9BT7iMWlpDdQY3RgFsdZAeo/E80WCpcSSC5DSSKMASDoh6fiR1qGzIuZ4YZJC6RFnj45bBx+AHTFAEi20kkSajIcXKguVJ4C/wB3iozE+qRG+2HKYa3jJGQR/jxSgSLfGxjcfZ2YsxDY2jH3B/nvSyqdPcWVrtRLncUOdvlnuffr0oAN/wDbXEb+WLZgSVHO/HQZ7dabPK2qWZsVwt3/AMtcf8sv8+1LMy6ETKqgxSqN2P4pP6d6GiGlyf2g7Z8z/j5bH5YH1oAVpVTTTYsMTgCIj68B/p3p1gVsrGW1uWBeHhm/v5547movKb7d/bX/ACz8vGzvt/vf/WpXls9Tvd0k6RLBjY4cBiSM5B9PagCK006a3tzPdX8kMuzhFK5CjkDmnW1sjQm8u9Sch1yykjlPQ/8A1qif+z2vmacvdxRDG4jzG3d84/hxTWOmTzrtsXW3XDbltzlz/h/OgB0S6UjzSXS4UkGNDuO0Y9RxzSQf2Q5aa5XYrDCxEPhfr71MuoWsv7tIJks4+iJCcOff29qcdVgupN80c/2ZOUUQsQ3ufb2oAitJtLhvZbhh5a/cjVlY49T+NSrf2M83n3REaIfkjMZ49zxRPqsF1IhkjnW1jxJuETfMRyPoBSzatDPITcJOtqozjymw/wBfb2oAgRNKurw5Xy4oycAhh5nHX6VPBYWFzL5zKiQYIVDJ9/3PNOF7BfXBS6SSO2HCrJGQre5J4/CohBpN1cfKttFBG3JyAXI/p/OgB4sY7oP9kme1ssYYof8AWH157DpTUs76Yhobrfar0S4GA/vx2qT7BFcK7+ZLb2O3AjDbQffHYUqw389swS4CWwPyCRfnZR6ntQBE9zfyMYzbrJbA/M9udufUfN2qRdUiuljtYla2DjDFl+6B2z0zTGvw0CC5t3t7RcgrGN+4D3HQfzqZbmPV4/s8GxbUj5juG4qO23qPrQAkltbzSLDZ2u7Z8onzhU/Xk1EzX1hI0OnIt5zudn+8CfU8CpBaSyyn+y7h4YkyMscofZR/Wolvp7Yiyjj8sg/Ndbd6k9ycdPz4oAmgvre3QiZWN6x+ZH6luwz06VK0f2SOW48/yryRCoaMDgEY2gdx9abLFCV8hIFvJW+dyx7+uf5D0qskb6XdI94wvJGztYL80Q+vp2oAg1+2u9Tj0wfZWS5SJLYhWAiOAAuMnhvU9K9L+EniHzNJbQ9RZYrm1YiBWJzKueTnocHjiuEK280fn6hOsobOIQwZfoB3Iqkp1XSLq21e3bEemvvtoJW3BFPJ47cnpW9Cq6U+YipDnjY+ksUYrL8Na5F4j8P22pQ7VMyZeMOGMbehx3rVr6BSUldHnNNOwmKMUtFMBMUYpaKAExRilooAXFGKfijFIYzFGKfijFADMUYp+KMUAMxRin4oxQAzFGKfijFADMUYp+KMUAMxRin4oxQAzFGKfijFADGQOpVgGUjBBHWvGPFukL4T1hlJU219I8sAQYIbOSmOg6gCvasVleI9Di1/RZ7ORIzKVJhkcf6t+zcehrnxFH2sLdTSnPlZ4Tbbra+3TxrGLgZB7If7o+vWoEKi+F0UxA0xw+eMkY3fj0xVm58y4Y6c6lZBuEjsMY2nGR7nr9KjmuDNaNamJWnWQIFA4OMHcP8APavAO8S48p71pgrNAuBOw6Ejp+A5zTNWaMFfIdoy0e6RkHWPP8+lSxSxW9nNb3SfOXI2d5c9D9TTrLbb74bpcTFdxLfxL/8AW4FADdTItoIZ7bHmoDsjUY38f0600xL/AGOl3/y2CiZm7sepGfSm2AU3Mbz7xHJk2yN0T1H1xUcRzq624+ez3O2T0L+n4GgCSziGo2v29zslZt6d/LI44plt/wAT63aa4XaYWIjQHgMO+f6Ul8TDqItI/wDVXmPMYf8ALPHp6VJqMraXIhsxn7Q211/u/wC19aAERxrDC0n+ZIOLgdMv2x+tOW5kdP7O4acNsfjO1Oxx34xRciPRlW9jy0Z4m29ZCeh/nSSQm2U6qSA5IeQL3TH3R+lAD4pxYx/2c3zSqn7rAzvB9qSzc6assd5gsE8zeB97uQPYUASXj/2gjfLCSYVxw646+uetNleTVkSe1DCOEbtp/jf+7+HegBbBBZXILoFjuQWVic7T/dB9+tC+T9tM7K32V2yGP3S/TP06Y96dcsmprFbBRnbvZuRsI4wPelNylxp4gkjDXGdhiX+Fh/h1oAivtn9oqiM0ce9POAHDE/d4/PNP1OQWk6yxMVJTa6oucL/ex3x0p8Tww2M8dxHukjGZV7ufX8aZpaqguRcOS5IJL9ApHAH0FAC3sa2VtbvaHEkYIjQ/xjHf6daDAsNit8rBriNC5cHIfIyR9P5UzTdr3nlSB2SFcwM3Rge/1pIFDakYfMBtQ7MA38T9x+FACRRtqlmmpYC3KgmEZ4TB/WlXZruZQCYoRiMHgiT1+nSkuZXs9QisLY7Yrk8kf8sz7fX3pbl00WQCFdsVwNiov8L/AN40ANcnXIGsWba0JHnyY/iHoO461XvbloFdYlU3ESeVJGBkbez+/b86tTqNEjS8I3ZGJwnWRj0PP40Pb/ZvM1aQhjIn7xO2329+lAFW7xZ2XlkBntUyuB/rFPAz9DzitPSNTjNl/ZU1v5UEsGSVO8iQjhgT1Zj27Vl2vmyXQKtmC3j3Qbuko5zn3qvcM7ahEbdniSMG5D4+YE87fTI7UAa0lhIslyr/APH5AylN/wDB8vH6dR60yKQ6xDJcISohJWNcdTjn8+lXri5m1jTxqCq63FtAVuDHjgZ4H+8Rg+nWs66kGj7DaACK5wiqOzZ5b8qALSzxPpcduibndPL8kHoQMEE+3eksWXT45be4wvljcGY8uP8A6x4o8hNPvYZGOY2yDI/8LH/GmXKm+cXdtGH+z/6tj/y0PcfSgCOyQ2mofabgGMXacJ/zzI5I+mKSRGOoHVFBaD5V2t0I7v8AQdRU94y6rDHbW7BlkGXdf4B2/XimLMH0sWCgmcqYQPpwW+lADrrffXEn2baRAnVh1Y8j6jFEsi6usVsmRE6b5cjHHQY/EUlu/wDZNrLbygt5a5jI6yev6mhBJpYE9wd8bJ+8Kjo3r+PAoAIrt4XTS4wBcIuA3bZ6/X2p88Caf9nlg+8rFSCeXB5IA9c1EYGFr/aR4nz5m7+Ly+uz8qsWbDVFjvHGIhzHGex9T70ALDClxBJdTurNLHjI5VV9vp61V052u7oJLnZarhCTnzQejfpTgTHdnTRKEjclkwOi/wB0e/X86dqZ+wiGSzQNNGhCRdivf8qAGTFY9SNsrt5Nw437B9xsfd9s9adq4EAtvs+5JN20BF6rjnPtjJqeKO3i0n98QysNxJ65POKi0fLxu93uNwh2sZMcD29qAL1nrM3he4s9Y0VFlmiYIqnkSI33h+OOteqNBr3xI8N+Vef2bYafcJuS5s5PtD7hxtwyjaevIORivF7TZ/aKZ3eXvk2Z6Z7/AP1q7rwF4t1i01M+HdLlskgkfEBvg5UOedibOeeTzQBx+o6e2jw3Gm3jf6VYzCKSROdz5HIPvkc1BFEsljJPvCzRzF2duMEHlc9dtem+N/h3qlyw8Sy3n2y+iBa5tYwBGE/6Z5APHX5jmvLZ5Ipb0yRlmhZoixXofTHt60AW0tF8Q20k1w7Bf+Xfafu468d+azYne4nE96dj27eVcQDgtngNj1yf0q9cSG0uXitZgrXeBn/nmfX0xTdVsl0sx3dgmEl/d3C5yCP73rnmgCCZiLpbM72uYslSp/5ZHqM+uKRgI4VhtwxVpM2jdQjdwx9c5p0UKWduRDJveAiVJj1kjbnaPfApkIS4jE0aeV5pP2Vm/wCWbdx9TyaALiLbjSCGc74+CzcMH9/fpTLNEutNmnunKzONsrsuNhX29vWoIpFkvhdurxQpJtdcgjzMY3H65FS6iy/b4xHu8pztuNnQ56Z9uvSgBdMLX8k/2xMmHCRhuRjHX696jt/9Nmm0qckw2/3mzzJ/hUuqSGzkjls1DyiPaY+2z+9/Ki8QWGmw3FufMkg5UH+PPHOOvWgBjysLk6OhyMAgn/nn3H5VKpbTM2kcZMcjbbf0HqCfzpvlL9gOpZ/0oJvLegxnZ9KbBG+q2rXoIWRuYCf+WeOv60AESroREZbMUqnbnvJ/nAqSESWkyXVwM/aCFK7cGJj2H9TTQn9tfNKmwW7EBScnfjrx2pvnSanbfYUkYSxttnk44x1/OgBFK/bf7RWP9y77GLHpjjefTpilvAJ9RLrHvgRQJnU8nByB+HWphdvHH9j8tTKGEQOPlORnP+e9EEgs7Wa1nAzHkJkf6wHofzoAL1kuHU2e55NoLmM9UP8AUjpSXTQiyhntCN0bfu1Xq57r/n0ptiwsZGF0oiLRBgT6Acr9BS2myG6DyxbI5j+4z/Dnt+PWgBPLhk0g3AkKtIwk3kYJb09s4xS2tub+2ae7IFxvyCpz5ZHQfh3qKTY2sLGNxtHPzBfuGQc8/p0pNSZo9QCwElZWRbgf3R2/PmgB1qBrHmPclSIwYtinqc/ePoeKSGQ6nI+nXXIhUedj+M56D9Kl1Eizlgmtyqlh5RBBICnvxz2pLiIadZRz2Z8yZQFH/TUE9D+dAEE14ltG+l3DqjHKhm+6sZ6c+uKLqW0lhSztLQzblGZY4gflHUj15pftU9sjPNpsj3MpxuYqQT2HXoKckt5bwkxW6xzOcFZuWc+2OAKAFkvF3C2tbCaNmX96RCAwX6e9J5t/MGsbS3jiSJV+9IQ209unBpyjUbRo4A1u0twTukw2QcdTREuoozWkDW5cqTJMA2VPqfegBu/UbhXtIbeCNYWAkAlI3DGeuP1pDLqF1G8aQW8cVu5WRRIQDgZ646U+NdQKvaWzWygL80yhuD/jSIt/LG9rbm2SJBgyKGwfUc0AIZ72eBJpreFLOP5mVXPzAdxx09u9Olv97ebc2lytrHgoBHw3uf8ACoy12V3OIDaWo+6m7DkdhnuKdLfTmQXFzp83kIAY0DL+ZGetADpbuG5crqMv2WHPywSKAXHY0gXT9V83iFbWH720AE++R0FO+22zXXm33Eq8RwFT8v4+v6US28E5FzeEPxhbWMjHPQHHf9KAGJp0QV7nzZYIFX92HcsD7kHj8KjlTUGAlvGWS2UgoGby2/EDr9KdJZz28auZBuVg1vaL93Poc/4083ssM8UmqwEMVJVU5VD7jrn9KAJJL2F5gl6Gs7ZcFElG3zD/AICkltY7lftD4tLZDkBFClx7kdKWRba8hFzfqs5YDyoAeVz2+vrULW8tkqvLLEqbgYrchiq/lzn9KAFb7UbYCRZTaISXwuyQj2A7e9TWs0epWohs43jteRI7jlvb3+tIZ1uJGa7lZQnW1A4Ppn3z6GiWJ5Vknk/0IFceUSPnx/ex2+nNAEaRPD5iaMHwwwzyHKkjjIb1HTFTW8kKIYbFS9w3EgkOTH9c9PpRFNJeKYlZrJIQN2MZbjt7Uzb5kgk0kBFjUh5GBG8f3ee/egBZYPsEkTri5lZuY1jAyPUDtin+bHLGtzf3KCEt8sXbPoT3+lR2tzCOLCFprg8SuT9xv9r/AOtUM7xaNcmabN08v3hjlT7dgP1oA6zwDr93oWtG1uVii0i/lLAv8phYjAJ474AxXsuK+fNkk225upmt0HzJDkcY5BPuDzxXrfgLxI+v6KUu5Q97bna/Byyfwufc4Jr1cFWuvZv5HLWh9pHUYoxT8UYr0jmGYoxT8UYoAZijFPxRigBcUYp2KMUgG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigDzP4laN9lu4Nbto8I/7q5VE6nqJGPsBj8a87DzKo1Iry+FaLbyEzx+XXNfRdxbR3VtJBMivHIpVlYZB/CvBda0260bVpdFZZNiuQs7ry8XZ8ehORXkYylyy511OujO65WZlyHurgXaRiSKBh5eR1H8RA79sUl639pEmwCM0IG9m6Hvs/wA+lS+bNaB7KMEttAt2x1/+sOOaZHIujxyi5UCNsMhUdT3GfXOa4DoHXUq3sFstrnzJPmV14MY/pnGKSR4Do7LGpV9+wZ5Il9c/XvSWwexvd1wVVLkEqqj7hHJGfTFMGF1IXrR5tZCETn+I/wAW3pz60AOsIll0WRb1sStkTMThsg8ZpNJZrtZ5b4bJivlkY2/J64/rUd/mTWIpU4ggYLcehzyCfUU/V2kS4RrIbpHXbNgZxH6+3egBmnj7XNJbXahreH5YFYcOvr7/AFqQq8t3JpbsDARuznLbe6+3P6Uaj+5s7dtL+edVxCB82U78d+1PeOJdJ+027qsyDd5rN/F3BPp7UAI5ksmNnbsuZWzCM/cXuMduM8053/sq6CqHkjnACj0f3PqfWmxQfb7H7dI+yZ1BDD+AA5x/9elgB1dZJWcCPbsj2n7rdz7+xoAIo5dMYSyuZRO/70n+E9jn0A4psQeKZdR8vYs5/eqF5Ve34570iK+qoLadWiW3bEnJBY9vwI5qTzriR/sLD5txVpMc7Mfex79KAGSyRzzm+jRXt4Thzn75Hf8ACl1FVv5USFS2E3uynGV/uE9s9aVZ106A2ksa7mfbCuPlcHp/9ei0Y6c8sF06kFfNVsdB3BP1NABeTpcW0EtnueYAtGo9MYOfTjOKJfJOjxtGCrl1KAnJ8ztu/HrTLIC0uhPcR+WbpTgZ+5jnbjsO9ImDrAuWjxayjCMTgBvXHTnsaAH2caz2Ms94QlwW3SEHGxhwCPTio9PDapDI2oKPOUkRqwxtHZsf1pt7ltQkWPi1Zgt2T9ODnsKfqrSRXEbWOTIyhZsc4j9fbvzQAlo/9p3Bt7gb0tPkkD8iU9j+lIjtcTyaNISVQZeT+8voPTqPyp+pSR6dp8d5ZAEqQAQfvqfX1+tPa2EGnR3KyASRnzSzcbs/wk+nNAFS93Wyf2bb585F32zjqo7jPrgGkIMdohJLb0EgA6LKozz7k9qtw2/22FNTzi525jxyFH933+vvVFVe81ATyZt7eVDGR/ck6dPXPegCz4XubnS5nneRUhYGW6SRtoC5xgKercjHtVk2YfUZBeWyxwTfvLULIHRR6LjjPese9gkupI42Uxx7v9JbrtI4BPpkVqQXlxqGjyeH4BCLuFj5W5sFUAzhDjJPWgCCzzqs93a3pLxW52KM9fc+p4qe2vI7S3+xlU+0K+xYl4BzyP0qteu1ho0dzB8l1ERHJx/F3DDuasSQR2sFvfqoygDSs3JKnk4980APtkOlSFZAohkG4lF439/oMYqHynjvE1WZTuZihXphD0J9MDrU5kGro4t2BgQ9f77Dkfh0pHumuIhp7/8AH1IpWTPGB3b/AAoAbMsuokXdq3yw58lSeHYHqf1p8jnU5kiTcsaJufI4J6AEdiDzUUUv9krHpgG+R/8AUN03eufSnxRtpG7LF4nXJY85k9/rwKAEMss8kemybvMTBlfqGUev1pkszadfLYwYAuj+64+WL14qRYZLWFL5i28bnljbsDyR747UsVsb2zmuJg0ck3KZHMYHTH1oAnntIYbNmyQ6ZcSE/MW+vv0qPSmN3CLudt83Kn5doT1AFRaZOdWXz5xhYm2rHnIz6n1pL51i1BI4nZEmO2fYM4J6fTPPNAEVt+91YD7tnuMkPb5xwR/PipdUbNyjQK7bDicxnGVPYn+lT6mipp4t4F2ySHZER2b1z/Wm6fJHDpzSXJAlJ/fg/wB/pjH5UAOvxF9khjhAJLr5QQ9MdDjuBTbS7+w6elxbb47q3kLR7Ww6vk8j0z/KoNKikg1K4+0gr5nzQK3YdwPTtSOVN8boJmBZly+eMgY3fh0xQB7H4Un8QeO9EY6nrcKWeTBdwWts0Uytj7ok3H1GTjnmuA8VeEk8EXDadM5ewu97Wzg5YjupHqMjnvUfh/xFf6R4iCadfvY2k5WK4mjiEuGJwMI3GckZPXFemeJfhj/b9j9qvdTlvNahO6G4f93GcdF2A7RnuQM0AeLaeE8q6jvEEbHG7eeGXHBx9MfjU2jj7XI32p2cRp5aiQYbnq4B6ZBxVbVD9tUxwRebJbyFZlU4+6cFc/XmpL6dGEMloWeQLk+X/dIxkn0HNAFP7O328Wk8uWtpN1mS2QwB5Ut0z0+lLLOkkn2e2HFw/wC7YdLdx1/rV7U7NH0W1ls3VriBlMLk/fJ9u5OKzrYW0FhJmfK3D4d2GGhl9MfnzQA52FvZqAkYO/yriMcLu7FR68ir1oYbS1mtbnLMnMm47t+7v+PpVKOR55Dd3MQjjV/Klixk+zD35qN1ea4cmRSthIGJU53pnofUjFAF/SlwZlulYTL90u2fkPPHoOlQ6dmS9jR+LaJS1qehbPBz61NqH+n+WtoNzIQ7ndtwuPukj+VJfyrNosbWS4lfBhUD5sg84oAiBI1drIH/AEJyXZvVz1XP9KW8c2d7Fp9qfLS6XC4/5ZnPUVNGsB0dTIxD79zY5Il9Meue1FlEt1aStdgm5yd+eGT0+nHpQAXH/EobzLdVEcgCeWDtw2fvY70ksI0nbdjcwLHzwg+8T3+gqPSmOo7pL3Bk2bQhHUZ++PT0/CnWZe7uJbSaQPFbNwFOdw7An2xQA5o50d9T5Y4G2Hr8noPc9aWVprxjcwKMW7fux/e9T78UjRyqp0wN/rAWEu7kJnn8c8YpTJLp3+iQoXXA8kn68j3wOaAC6J1Fx9lQMEjJJYY5I4X/ABFEkyX1rDbwD98VyGxjy8cEj8eKkjLaZK6y7nhk5UgdXPX8+wqKFZbGQXN0FEbg+YQPuHPH0GOvvQBIZoG014TGFZD5flAZw/t6+tR2Yj/suf7aHEoUrOWbLEDv9PSo8q1xHqrJ+5JwoB5weN2PXnFLqBE15FNEm+GFtszA4B+uOuKAHaR5jTT/AGzG8ACL/rnjt+lQQC5jmZo7cTWloT5JDhT05PvVq/hF3dQxW0nlyPHzIO0ee3vnFRG3uZpJbX7fi3iUFnWIDBB5WgBv+nTrHqUk8MAUHy0KbjtP48mkdNTghe9knh85hhUMeTj0HP44oNilwrXV3LI9vEuV2nZvA6EAcDHb1qsn9lCFprm7Z2zuSJZ2JX9etAFxrDytmbm4kvZFwSsmOPU+goGntDNDaw3dx5jZeV1k4Hrx2zVD/iXJGG+1lriU4yJ2xGPQmrNvY2d3cCOzuJH8sAzTCVvm9B1//VQBPHYBpfKsrm4WGNsyMZOD7D/Go9l89vJEl1DHaxjAdYsZ9hzzR/Z9oWLQySx2sRJd/ObDH0HP604Wcq26yPctb28TfuYmQE47Zz1OaAEC3sVtHc3Qjkii+5bquzPoee/tT3vXjukm1OAopwYI1bcQcf3Rzn3qIvqkdzG06R3LMf3SMdpA9SoHb9Kcl+sE0qXMYe+X5mcjKIO3PYYoAct/HKRLcIWnclYoJPk2jHv/ADpPsEUDnyYcXcnO2Btnlr6Z7f1qRdtyhFmsd27f6yd+i/7vv7UyKzlidhpU7ZC4llk+bew6Dn9aAHRC7t75mLLdylPu4x5Y9N39O9NtdTgadooi0t/Jwd6FQPbnoB6U2K7aKJUd1tUOfMufvK7Z6An/ACKla3S6iC26Kltjm6J+c45yD3HvmgBpsYEuENq2++3EtJGcAE9d3t7U6Ce4inIuIVlvCdoIkAUD29PpUKzyIxhSCRbNuTdBMEr9fT361OLdLy3MNk+y3HJuPvMx9if50AE0fOBK9xek8Kr4Ebf+y0yGXMh/tONZb9CNsa8gZ6EenuaZFPJFeJa2ilYpshLpkBJxzj/a+pqcxrIfKtleSUPlrojgHvz/AE6UANu4fMzPeOsU23EcIO7I9CP4uaekrXqytdM1vFAdjIjdT7nuPamW8rrLJG8DXF6rYMpX5F9Oe3HpUV55VleQS3NwJZN2XjAwWB4Hy9Cc96AGNvglE2m25t7WVgkzEbSPcDt9auB4dkltaQtds/33c8MPXd0NLcr58Bk1ObyLZjjys4+mT1/CobCW4uLcwRsLcQkhm2Dp2wPTHegBkQhiyl8s1zNG+1VYFhnswHYds11HgvU7jS/GNvPesbe1uh5DxId26Q8JnHXnP0rlDIlrcJNpWZgx2yyyOSnsM9jmrN3viiL3N1/pTKfIjU42t7Y6n0NXCThJSQpK6sfRuKMVQ8P3cN/4fsp7eZZ1MKqXBzlgMH8cg1o4r6JO6uedaw3FGKdijFMQ3FGKdijFAC4oxTsUYpDG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuK5bx14a/tzS0uYJBHc2O6VMjhxjkHHPTOPeurxRionFTjysabTuj5sRbi7ga9KvHOpPlRHHA9Px70oDaq3mBtsca4GMf6z1H05HNdZ8QvD02hass2nlja6lKzyM3/LJifm+bpznge1clIq6TOTCoEU4wctjMnbntxmvAqQcJOLO+MlJXQwyyarGbMjypY1zK2PutngD9Kc9x5lqdOfJvCuzH/s/wBO9K4k0qGOcsZF/wCW5/vHsQPXOBTBA6Tpq8o+bYd6dNq/4j9agoW0kGn6bNbzjzJIOCR/y0zzxnr1pNJiFlBPb3rDcWLZP8SkVHcD7dNDq0AJit/urjmTn9KfqUf9qyRrAw22487cPmDH+79aAE0sOt85ugRHyLTd2X2/TrTbb/kLHd/x4FsQDsZO/wDWpNRlfUtPjisuLliH2g/cx6nsakZ7f+zoo1Q+bu2oo+UiT19u/NAEdyfL1RbeGUJFOP3iqPun19OelLdhdOlC2ziM3CiNV/uY4BHtzzT7ZYm0+4FyQJd587PID47fpSaan2jet8TLOi4+YcbD049T3oALlDpqw3UKeYVGyRQeoPJb65oa3a1ja/jYNM7bpMH5Svp9B1qPTcXVxh5C6W+5UDDG45+8Pp0pwgV5P7MZ1NuvPuR/dz69/pQA5457t/tsXRSDEp6le+PrxTZmbWFb7K3lfZzkORyW9PpTpHkt5JLOFsK4AiO7/V56/wD1hRNI+kbdqmSJ1wFHJMnsO2eTQATyf2pbwwRrjzBukz1QdvzIoNws1gbJIwsxzEqDtjjd9KAr6W73c7s8cuDKFH3W9QPyFNVXiuBqU0YJkbYeOVQ9D7cdaAH2xhTS3t7tERkG2ROefQ+9R6TvCz/2l/x8bed3Xy+3T8aSYm6vIdSiRWghJUkjJIzywH1o1LfdyxtprZZeZmQ9U/u57/SgBulhjeOtzzEc/ZA3TZ7fhjrSQnzNbe0PFvEwkj9Cccj9TUmokXFrBHpZ2XBH7oj5SqjqPb6Utw0Z0DfbjEij93gc7x1x79aACYmDUPskUoEdw5ZyOqcdPTBxTdQi+yOUhT93cp5ROeIz0B/Wn20cc2jO9y2ySQ+ZLz91/p+A4pbBP7Rgle9JaU7kxjbtX1APTNAFKCEW9pEtx87LmKZWP8JOQ3v2qra/aNNkfUnfbdo4c55OwnGR255FWGSWa4S4lxuscgRpz5q+1MvbZp9lraFXiUZLqwyU67PcjrQBrzq+oanFr+Y2splMZVAf3Z7Bs9/ccVShP/E7eKQ5swQIl6rvIz/jUtrq582TQ4pYreG6jSKJliO1MjByufvHPJovLJtJ0+bTWO64t+YJMYLk85Ue2cUADXqaXdPaoNyMAYlA6MTjH0HWpmhks5lvJG38HzyB27fgOaitkQ6WxmO26gJ3vnB8zHr3zwKWzuX1dQjhkjRR5vykb27j6UAJ5B1OSPUkOww58lSOo96RWXXGVgMRRLkH/pp6H6cGn+fNa7NP5aWQnZJjIC+pHt0qNvL0ALHGSY5yQueSHx1+nSgCVJJbspZSZOwYuGBHPp+B5qKRHt2j0lBujlyQ+eVTPP45p7Qf2bard5CSlg0+Tw2ev19qeLNrq0NxMQLlhujk6+WO2PTigBuoN9glWa3ZQ8gEZQjtnqMd/rVzybeCzYSkMhGXZv4veqmnH7bHNdz4XzF8sAMDhPf361Hp+JrpoJW3wwY8gFcBvf3x60AO0rPmkXm/z8Exb8fcz2/TrUM4M+q+eRi0VvLlHYkcg/TJFWdTDTTxrahjMhzIUbadncZ/LipJLiFdJU2yZSRdqIODzx09qAItVjOpJ9jtmAkGHaTso7fnQ1wkmj+WsYaRh5Yib+Ijj+mabp4XTFmhuW3NEgbzcffX0H0qNImt9T/tKThLnCFf7g/vE/h+tAEsMqWcNxHcgK+7KlusmeAfrnivQPh7Pd6+Y9H1vxDqMMiplbFdnkzRDqmcbuBwee/Fee3ivfy+bEiyxW5BTI4Zs8/Xj9at22pTjWLefS55YjAMzPC/lybT/AG7ZxQB13xC8J6Z4KuE1DTmjgs72QI1rklkbHUf7PHPua4WzH2W+nmuo1iS4G5WPUf7J7e9e56H4d8N+KPD8WpzrPqwlUiOXVW814SOCFJAwMivEtZhC3FzokFxHeNDMY/tCHKuF+YH6HpQAzTCv9pK77kiyzQbuj7uv9MVQ1Oyt49TcNK0dhLICfK6JJjvn8elXmlWe2t7MKFulIIQDAQr3+n86nhWyn0JoLtCArH5erhsnkD9fpQBn311J5u2GMedG3l3GBwUPAb8zSSbrK1eNZA01uQySMM+Yh/h469KbYyy2zXbXTST3EB2TRn5sx9sH8aW2iuJ7glXKeUfMthnG9D/AA/lj6UAT6eY9LaXzXyk6+duPRexX8zRaxPaao1zOMJdk7EP/LLHPPaqksa3zNGrMls7/u12EbJfT3HWrs8n9r2X2KMeXIyBpM/8sxnv+VAEbAvrpmYZsTgFv4fMHT9affFPtwMRbydw+1kH5cY4z39OlOEo/sd7M/64KYVTu3YNj0pLLy7XS5YtRXMqD98CM7h2+vagBdWZoJbdrNBukBSTH9zH9OtF4I7XS4Z7SQb4wNjEHLj049afpq7Jp47sHzSNw3tuIj7DP51BphY6hifO1S4tcdNvf8OmKALItA1rHcLJmYESl2PBOOh9qYIDqMEl2zFWZRsQH7uDnn3qIBZNRa1R/wDR2cORj5D6oPXJ5qa4X7NcNDC6qt0cvu/gPc/Qjge9ABEZNUb98fLSNQRs/v8Af8j0pA09+q2sg2mNv3+ehHYfU8GkuEOmSK1rjDxbDvOeQPl/D1NPkRrGKO7ViehuCTnI9ff/AAoAYbh47X7C433WNoGPvL/eH+e1Ns3j0iCa0mJfY25Sf493QfWpfIuI3+3Mfm3Fmjz/AAY+7n261VkvdPvpftN1tlgTCxJjLEnrlevpQBGlkICIxdlpJyWaLcNgHuev5U2SHS0kFruxs5ln+Y5Ppxx/9aoUaxWIq1iftMrHgwEhF9QKsxXlpDGLW2jnjt05lYRNlj6dOKAEgk0n7UJj+5iQ4RMN83uf6VJFqNkEkuZhuuCCEiEZ4XPbj8ae9xMZIXFmJLY7fs8ayAfiR/nFNOpKjOwWV7vO1n8liIh7CgBI7+0gtVjRkeeQnzZfLOFPqeKQWunT/vE2rCmHknJIaQ/T+fH0oOpWwRUQXC27fNJN5TZkPpmllGnO/wBpuY4flAjihyM+270/pQALZWRBm8gYb5YrdGyWPqeaSSyKXETSXs016oGI1A2/yp66dGmY7Q+XdSfM0kJwsa+n/wBbv1pDDOqT/Yropb53PK/LO/cA0AJJJqME8gRYrh2/1kkeQ0Y7AZ4p1reLdqYIVFqoGJDKPnPqQelI12sMESXcMlvA4LlR87SeucdPepi8N2gMgSfdxDbqwIX3P+NAEctrDIgmiLWsUY2xtH96T8PTmoZJZbaziGoWkjQLlViQjcfQtz1+lLHHdWl8A90bx1BIUxkhOPXoD7VLa3Szu72xaaZBiSSY7RDn0B7e1AD38m7t1e5h3R4xFaAjJPqfeojD5Cq0qGRAxMdnnmMAdsd/rTXgNsfO0hELICJp3YBTnk49amtZ4ZY2lsAqq3yy3chwc+/r9aAH+cknlz3ErMHGY7VBxntn0P6VVkhktZB9qVZoHb5LWJsbGPOTmm/NZTM+kFysjgTyzqSOvBHTI681cEKS71toUmZxtlunOR6/iKAFni86HzL12ij24W2XGfbPvn0qK2EjweVeSm1SEYMQ+86/7Xr+FMs2/wBMmSKL7TcRt+7lkb7qYwCD3Gc0XsaRMlwJDd3MJ3spbKKB97HofSgAuFkS2+0W8TWUMI+Y5y7r7df1qdDHLCYdMtsq4OZnHyqfx5pJJA8Ya+uGlLAbYIFPQjPzLzn60y2muJLfy7u5ECwkxvz87kc8H8uKAI7EraqY7iM3d/GSu1Tzs7Hnj+tOvA8d5BPqDokT/uzHFnJB5+b8u1NtjIuoMtgvlC5UFZJkOSV+9kcHnPWi+a2tnin8yS5mhfeT94D1XP8ADQBPeGW+s5I7WLyYFw/msMbwOflHrx3p1vcWsUSNbQvcXEih2UcsffJ4pbpZpLaSS9uRboyExxo205x0J71HprXD6ZDHYRLAu0EyuOCe/wAvX8aAPZPhc4bwDaDo6vJuTPK5c9a6/FecfB9ZVh1wXDq8n2mPLKuAfk9K9JxXvUJXpRZwVFaTG4oxTsUYrcgbijFOxRigB2KMUuKMVIxMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigDK8Q6DbeI9Iewu2ZFLB0deqOOhx3x6V4LPps7X97a6vGVkhcxrG3BA7MR2J6/jX0fivM/ij4Xk+ztrWjoy3DkLdlRkbcf6wjrkYA49a4sXS5o8y3RtSnZ2Z5nblr+dbe4dd1qCJFB+8enT096EaeSZtMkyUGd8g5wnYZ9SKfeKmn2y3VptV1AXHUOM9+/HWkaEQ2C3cUgZw3mlh/EDyVH1ryTrGJMNKCaaq7nkz5Bzwc+vpRaquhiSCRso43o7cbn/ALopIYjqYGpA4ZW3QK/8IHBB/GkAXxFGsozEkD/KO5b39qAC1T+y5zc3B2Jd/PKX4ETdh+tJHG0WrSajMpFrIAFz/Cf7xHb6+9LK/wDbY+xMNoRiJmX+Fh0x7HmnSSNdWDaaV23LLsI/uqOjH9KAG3zI18SEzbKVE7KerZ4GPXOKk1TBuA8LsGjUmYIP4Pc+uOlOtpEs7A2dxgyxJjB/5aeh/Om6awtlmW9UJKqBnPYL2X8KAF1Bo4bS2lt0bduHlqg5bI6H+dO8mGPTYZkmBaL5kl/vE8c+uelRaaghu9soYiQF4S5Hyrnp+PWmwbG1Zw25IUlLIx6O+OR9MUATJbC8s5J8g3LkHk4CMvQfhTbfbqrPI78Rr5e1Tzu7n2Of0on8uO88hJCsErfvQOgY9vxpb1l02YSRFI45RsZe27sx9scUAMj87UleyucqsQxLIo+8/oPpwacWmkT+zMFnTAkfqDH9fUii4i/sy3hmtyXMY2sO8men6mlNu0Ea6m5zOqFpFJ4K+nHp2oAZDMNNQ6cq5cttg3HG8HnP0HSls1TRGa3mf92/zrI3G5j/AAimtBJdp/aWwmVCHgjJGQMcg/zolVNdUyRthLZ8pt6s4/pQAafC9lezS3Y2pcPmIn+DPY+hNJCy/wBqJdBNtvKxjQZz8/rjoOhou2bWrMWkJCzqQZT2jYdqle4R7NbPygZiREUb+E46nHagCC+51Rn62ahVmC93zx+PSptUYfaB5JYOFKylBwin+In27Utu6Q6XLay4EkWYyf757EfnSaOjW6vDeDNwEUs7d17D8KAJLqNLaCKe3IMqpsQAf6wHt/WqEEMNgigTDb/rYJj0ZzwVx34qfS9j3JMm9Au5Yg/8YJ5P51HcWsVxcLbrI3lRMWgA/vjnZ9KAK1mX09rvUphGskqsqnG4IT1Xno3oeorUsop/EmnjVmuJJ7vThtW3EQAPoM9Tx3rNvEN7D9midYt7Bp1YHET/AP1zTW1A6ZqKC3eaBpAFuDFjcoAxxnjng0AWLmRZ9Q85CHssKJtnd88fjnFWL67/ALPvt1uhfeuJI1/vH7v0zzVm702PQIWijdpLS4j3JM+DmQ/w8fhVTTUWC3lh1IZkWMGR27rjgfhQBZezkNqZ1Y/a+HDMcAH0x6VHAv8Aa6+fOhWNciEEe33qhtpbi5MVlOroMmQsxGJI88AY+oqW8eWwusWoBFxhQgP3W7t+VAEVo/8AaEgtJBvjtGIk3fxkfdP6GnZc3r6dHKDHuDFQ3Kp3GfXP6Ut8iaTDFdxhnZG2sP7+7qfrUi2hfT2m3qLlz5gm9D2/IcUAQ6kPsU0Yt2SNbn90wPCjuT9T0qbUo1s7OKS23LLEPLhwN3XjGDRp+y/hnnkbczkryOYxjp/WoNIczXs0c3K2wCQk9x3PvQBftHgh08S7htxmRyc898n61Ts18jUS80RVbhj5AJ+5x029B+FMj2LrDRncLRD8ob7gkPPH69as6ohvYTZW5/etyX7Rj3oAgvYmv7lpYslbQZXbyJT3U/lUtxKuoW6WcWB58eXI6IBwce+e1Lb3Qg0vYoHnRZjCn+Nhxn8aitIRpM4Eh+S4G4s/8L/3R+tADracWNsbE586P5IRj5pB2bH+elJEx0jzJLwAJIoYuo/j78+56UjrNcLHqSg5Q5jhx0XoSffGafNnVj/ozjyEBwzDgv2P4UAdF4EW1n1i3sNfkvWS/kxbG1u5IljY8hSikDBHJPrXafFnS9F0rw9a30H2axngm/dxRxqhuc4BBI64HNeUfaHu5orNd0ckfzTduBxjI9eteufDE+H4/DDzXMMcd7bZguZbiTcZiPm3KCTxz2HagDyANIs76mFG1mCFSv8AAP48/TmkEiG++2KmbYTKTID8p4xvz7dMVu+MYrGPVZl0G6a9tdQlZ3JiZDBuPzDkAY54x6Vhu5t7eXT5B5rYAgVhzIPw9KAG+IFidxe2e5TAwFy6HAYZ+77morppjGIbFHLv/pFvIRjjqV/DjitGyuIbSK5gvVGc5IPWQHgE/U8VmpZSWV1LE8bJ5wE9sNwwu3nYcn3AoAUxJBZlUZ3S6PylPmaOTvgfnS2zLp7TX0uWcHy7r/e9R+YqMwm7k8+clIbhwojHWJx/F+h/Om3Ei3N9KkoY+SojnRfuvzgEfQnNAF1jIZYtVIG3oEA6If4ifp2pl4jXt0l9agyxW6EADpKc9PcU8XLRY0yLDSqFCsO6Hv8AUCnQy/2aj2bhmOf3HrJnk+3WgBl+RftGlkA0iqJGcNjK56cde/FSXs6zWkQsUU3G7Ea5wUx16encVHYx/wBj5hnIKupdW9W7qPwos8Wtw13MixxXeCpH8B989zmgB4+ztoqohZSxIXAy2/POPxzS20Mdxb3QuSQ/mfOT/ARg4B9O9RbgdUWdox9maQKhHdsfeP05FGo7ftj7d+3Ynmbf97jHv6+1AEtsiaiztdPvZVKKo4yp/i/GmW5a6vRbyOr20S/JzgyY46dwOlS6iVSWKSB8SAEEJ2Q9W/Cm3McdtaxS2R/fD5YgP+WhPOD9etAFe5llgLWJWV4w2/dGNxSP39eQaZJdRC5ju49OkVFXEOIgBIzdM+lJHNevD9lWAwzkbrieQ5GPw/Knhr3y4LlVtlWMFIYhu+cHoRQAeZqkTFfJhNzOM795JQfTHApnm3psQVghS3VvmPmn976c455qSMaiRMivb72XMk/OVP8Ad/KmRteCG2lVbcgriK3+b5eeTQAssmpCeKT7NCkjJthjD8x56nGPpRHcTJaP9ohK26t+8lgYs0h788cUbL6QXDvLb7N3zTEN8w7oPahri7Plq1oJJAhaOKM/KvPVs96AHTalHDIrXltNDEpxAjJhT7mmR3VnJPIqeTJcyLvkkKgoi98epH61HHfRPI0V28sb9HkmUEkf3VxxVphFdKiRQo0RG2KEfxD+8x9P1oArS6cDmSNpbdJD8jLIS8p9NvSkZ9VtpUSeCO72DKxR8bR6kAVN9lmSQi2nRHRCuc/u4++FzzmmJdxbFWaeS2ZxnBHzznpz2AP4UATx3azNL/FcbR5ruPkhHcfUfrTILO3hZ7nT38mML89weQ/sB0xSzwGTZlUSQKRFHGfue7/Sm7njuALhY55NwWOVMiOI47+uetACQXQaL7PfgWSdQm8+ZL+PWi6tGURSjejjlLVFyZAP7x7+/WnmMTo5jkSY45uLgYxjnaMY6dabZXIdZPJ2wsoxNPJnL/7SigB8NwJQouEbepz9hiQfJ7n1H+NR3MP2e4WZpIzNjIslACEevvjrnFNmhMSm5t4jabfvsTmSYe3UVYxGbRmgK21o/Hm4JdvcdeKAF82KYxm6O+QAGO2tmyNvr2yKq20bQh7bUZHVQ26CCLhnzzxjr16U7TjJbW8lsjLEsZLedIPmKHoV98Usu2KSO4sLcoqt891J90r3469fagBdSG2GO4m3QIGCx26fKzj3I5z7VYaJ5bWSNIhZ2zJh5ZB+8P1H9c00iQiVIA13IykG4kxtXjpUFmYfIjV2lv7iMACH+4R1weAaAHaTLKLBFtLfzJQSDPIMBlz/AHu/0pkAW31q5Vt187KGICAhHz3Hb60+FN13eNez+TGrLugT7rDH5/lR53lahF9ih8mOZfKWWQ/KQOcjvn60AJqsE7rBd30wg2SBCkbcBSeTu60/UJHOlzLZ2gjg2/O7jaT7j1qLUFtofK/eNd3YmQ5PVhnp6VNqqXD6bK9zcLEAvEMfRh75/pQA8fYIy6TSG7uWGGj+8c+y9B+FJpwuby2aMyGC3jcxquPmKjjB9PrTxcgWu3TLfIWM/viMBTj35qG1tbSPT0m1CZpfMAfax+6W64A5oA9O+DSxLba4tu5eMXSAEsW/g9TXpmK4b4T6fDD4VfUYSd2oSlmTsuwlRj8BXdYr3MOmqUThqayYmKMUuKMVuQJijFLijFADsUYpcUYpAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJimugdGVujDBp+KMUAeAa94Zl8P+KJ7a4Qix5+wh/myp6/N03deOuKwV2vqwsfM/wBHTEkYAz8w7Z9B6V7n8QfDMniPw6RZLm/tiXtyWIxnhuO525x714pcwpbaaUwVuIDsG4YcSjsffPUV4uIpeznpsztpy5kVrqRrS8+wREr9sOY2XgRevHvTruRdFmQwoPLnxGEXgBv71Pt4EvtMaZ3YzSDmRlwVI9B26VHpr/2uktxMoXA8pU6gEfxD35rnNBZI00MG8ZtwlYCfjqT3Hp34pwSePy9Rk3M54kA5Aj9h69Khtcar5thdZMNqQp55kI6Ent0p4nkmum0oMcRkb2HBMeP0PSgBJImuphq0AxsUCIN3XPJP4Z4p9yx1SSFrIK8aLudiMbgf4QffvTkeSx/0FY872IgJ+6F9z69aI5F0m4MErfu5RujCjkt/Fx79hQAs88d9bxwWy4kILKcf6vBwSP5UkssMmioqxbSSAIlPKnPp+tJaiSxmEl2FP2lsDAwUPYY+nX3ojm/0uO+MaiCY7QT/AAjsx9yeKAHQCAafMlzlWWVi397dn7wHv2pLCIztONQIeRhgKwxhP69s+9R3WHvZJ1j3Qxum9geCR39ttP1EC6kBtGfeq4keMZwh5wPfpQA2zIu9RkhmkMiW2fKBH3lPGSe9MjdjqI0xiWt/mbcvQjsn0HQ1NfyRx2MU9kwEo/1RQfeHfjvxmiSOJNKjnhY7ywlUkYLsece2fSgBjq9o40y3YIswLRvuwYxnn60rumiysqgJDOP3eBn95/QdKLSH+0NLeef5biTOW7pg9vTpSWca6xE1xcFegRUVs7CDnP1oAI4jpLfa5FO2UbrnA3YbtgDt1pFia2vpNXl4ikXDJnlF459/pRFK2ryvaTE+XCzLNg7S3oePx4pzebPD/ZUykOync+ONmeCPU9KAGzMZrxdQRAY7dtgwvLg98+nNGpKby5jltT5kdurGTbyHB/hHrnFOWc2Cvp6AO/HkJ1+Q8fiRyadBIujt9mnbcJSXjZRgse4x29qADUJBLa232VN8u4GNVb7vHf2HSnEWq6ZEIiwaPiL++G9P8famWQktLvN2FH2jJDYwEOeFH4c1GhUXwuimIGmbD54yRjdn36YoAYCqQvcTmR45VMd0RyVYcYHt1qolsEa5ubxso0e10AwQnGGHr0FaF2kM07kB/svS4KHAz/8AW5zVa5je4RLdw3miMhnVchos/wAPqelAFnw9IurWpsL6a5Qvk2sSS4jOBkDbjgZHWm3v2ieQRPFiW1Um5Upgn/ZX1BwazbpjbzQxWRLMf9WyHH7of7XUHOcmuhWOEaamsaakzwYZbvMhkbK9CCf4RzzQBVuZt8to1kgaZV3lQ2PkHVc/XHFPtYVvLOW5mxm4GV3c+WOwz7HmorHfa3G66CkXILK2MBfRR9RzUCNNKyxKAlreSlo2DfMoHOMenFAFmw8y8kP2o70gwE+b75H8RH8qgj+bUX037tvHJvy3R88lT+Jz+FTau5slW4tMecqECMDqPX8KfLDDFpS3Dbg0YEu8cnd/XrQBDqRFrcYSQxpcYDhBnac9SPfpTtaU21pHJZAieMbI1Tsp64FS2SJcWc8s5AkkJMgYZMXHT8OtR6QwkuJd5ZnjVVUsOCvZgfegCSfyRoJULuDJjYhwWbvj3zS6dIlvYlZzsmTmXd1J9feqln8mtEf8uYBWFj0Lk5OPfOakvR52pFliLwRqBO6nng5A/A80ANaJ01NNWZSEYCPyz1AP8R9KnuoU1ebyvvW0YyWU4y/bB7ipbqZbuI21sQ5lX5mHRVPf/CoLOVNLjNjISSh/c/3pc88D60APW7neKK1xtuSSsjAcJjv/APXpqv8A2TI0JDvHKwMRPJZz1ye1ItvNaXH25slpCfPUHO1ewH0PNK0EmpRNcEkMjE265wvHRvfNAA0cunQrdM5Y7s3B9V/qRwKtaC1tBrlhrOqWYu4lnDGCQfdU8Dk/3T81VkdtSlWJ1ZFtyPNDDG5sdMeneoJJHW6XSmYgSPuRgckIOce/Q0Ae5+PNV8P6zoJ057ua6Z2Ekb6dEbkRuv3S4TOBnscZrxF4LySeed0eG4g+SJHBQkf7SnkZ64Nek/DLxRovhqzvdO1eWz05fM82K5lIRp9xJK/Rf61mfEW3N5LPrmiaXqkBmx9pnubfEBUDAkDZPGMcY5zQBwbSnUma6tEV0jCg5GNxByQR3wOR71Z1ZI9dt4rW1VWmKl1kPVMfwn0zUDMmhnZHkQzjEYHJ8z1Pt0qxZP8A2TKzXhRI5QGaQDjf3yfr0oAzftIuo5IIQIxMBFcFmz5bjgN9MCnvtsrWSVxmSAlJyOGnBGAfpz+lF3GttMdTuoQtteZikjXgpzwR65xn8acy+fcG83+eYVCiPHEsefvn25P5UAR26rE32xQVlihVk3Hho8fd+oHerQ83U4Tewk/uyGtlzgE98j86p3DCW4fToh5qFTOjqeSDzsHt2qb7V9mlW3syM3aDy/SNhwR/OgCadF1vYYwyrbsSdwwS+OmPypJ5TqtqtkNnmtkSsVyEYdeP5GpJAdG2tEryRSt84Jztbsc+5wKSG1fTJjct92YlrjHO09vwHPNACyXO+yeyVAbpQI/LYZGccE+1OtGWGxuIbj/WR5EjE4MnHX+lRMZEA1R1EeDhxjny/wCueDUkzG7ZbuCNWihG4Fv+Wv8A9YdR70AN0srDI4lBjYxIQXOPlA4H1Hc1UeK5Rke0kVYvMK26SJncx5J9u/NWrxotQaPy38tfJZnl6+WpHce9Z0sMaQQNqFy6yyvhSXK+Wo4DAD8PzoAuW0VzieK4uk+zocTSIu12b0zn6VHHZ4iQCe4WYbvKJkwIo+xPpx2qqRpWLktcvgNtRBKTvP8Af6/5xQo00SJ5t2zBYv35Ex/eHHAHr3oAtCzBjESzXLROCqxb8eY2eW9hnNO+xFLkh7ybdHF++kL5Dei//WqIWEJVm82RCACz+a2IU7DPcnjinLYiORmt2dJGwypIxYKP77A0AKRqD+QpmgUJysZjwqqOjHnj2FSiedbXd5DRxyP+9l35dx7Dr9PaoglypOyT7UsrhkRxtMnqSR/CKY128DefOvOCGnDZRTngIOhOPpQA+C8huCY42SGROFSYYWEfQ9SaQWgii/0J3hLZAMXHmv8AT+6D/OliNrfLuhWOQqDtB5Kjuzn19qhij+xYjimeRJCAGl4JX0j+v4UANa4ns1EWqWSzqnIEZBRPdh61ckWOYB5Vjds/8fMhGAeuEHf8O9Nt5ElXyo/LdkbKxK5bPu5PPHpzURX7KJbnzHkh4PmNECic9UHQ/pQAqK1vcOpjAtpfmIZx5sh7bvQfUVZIX5YWjYZHyW0J+Qf7xHHvTBKjxrvULHcA/vHH72X1AHofrTYlntVWzmEmGBbZCu5nXP8AEeoxwKAFi3uRFceXeSIf3bM42qP73uf6Uy9E7r9qjZLue3G4v0iUew7n8abfFpIWCxL58DbhDb87fUseOo4qW3njvokdY97DlYLc/Ih/28etAD0kWcCRtst1tDee64jiHt/hmorB5FuJYwBcSxMShztjjX+8oP40ywMkMklpeZlML5W3hXPXnJ9RzReQ+Xqlq07MXcYa2txjao5HTqM0AOuJQt9bzTP9tlU7VCLiPJ6YPIBqS+8y6heGS4aWVxhEgGEHs55FN1Nj9mRbnyrSASB1iU4ZwOv0NWt8v2VpIQllbbd3mMo3N9R/WgCKKRWs43mm8qArmO2gHzY6YOOopumCaS0kFsy21qJnyWGCRnt/dxTdJEn2CH7Ja7pMZaabgD3U/wBKjs0tA0vnvLPcrO2Yo2PzDPXbnGKAH2ixDU7n7PD9tmV1KSuwOBj+9/Sl1BNl3aHU5BcfM2YkTIAxx8v9aW1WZZ76QzJYxqyllVAQBj9KZCV/tTFjE85RN8TyMcEngnd6YoAfeeaLOGO1s1toWnQo5I654yvWm6oLNLOQMz3Vxj5XI3hDnpn+Glv0/wBOthq11tiYM20HaEbjHI6067kctapZWoSMygHzBt8w4OPqPegCxcfa5bN2ndbWERkFQ2WPH97t9Kq2l3Y2NlFN5Uk06wg+YELY4+7u7U7WLdIbRZb25Lyl1CjO1SMjI2jg1ehxqFzbafbwmG2vJlgaXbjG843KO9NK7sB7V8PdOudM8D2MF6ipKQ0m0MGwGYsOfoRXTYqKzthaWMFsG3CGNYwxHXAxmpsV78VyxSPPeruJijFLijFUITFGKXFGKAHYoxTsUYpDG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbivHviR4Ui0nXbfWrNHS0uGYTrkbElbGD65Y5/KvY8VR1fR7PXNNksdRj8yF+fdT2YHsR61jWpqpCxUJcrufNV8SNRQwnFnn/S8dPx/+tTtUkNjNHJbKG+0DymXsq/3uPrWhe6eNCe90m/XL28jKUzvLBjuXp1OCKo6SkkZmi1E7rgrkljn932GfzrxWmnZnduOvEXT7aK4gdS8KFVDc+Zn6d6bLEtrYnUoyWuAu92/vj+6fb/Co9JLSahKJshYCwt+wKn09RwKWEKdQNlv3WfLAYwGbP3c9D34pAPjhe9tzfK2Jy26LPWNe6/z/OnHfqpdk+RI1/dk84k9/oahuWaHU3soiY47gCRpD/Cc8/gQMVNc/wDEsdRZ7ESUFRH239sD69aAGNI+rwJbxM0ew4mcj07fj1qU3bSR/Y/LUSljETj5RgZz/nvStG+nkXbFmTZ+/Gec/wB73x0pjxzwML9ySxfLRjk7DwFz6DrQAqSiHTpbWVAZEyixn/loOgz9adYEW0k0NwoVyocE9WGP6dKa7Szlr+MY8gsI0xncO/59qZch9QYvbRqwSLncOrcHb7j+tADdNCR3XmSbkSZcQI3RR6fXrSJsfWfL+Y2p+aMD7m8dffOakvpFv7eKG14mfOG7xcdx2z0oDo2iJAOZ0HlqMciQcZ/A96AIbslNVEMR3QTSj7R2CnHA/HrUmpytp9zHLaqCZgImXso/vU5PIGl3Md0HV1AFwSdzE9ue9Glh5Euvt+BMSVPPRMdvagBLsR6Nbi9gyxLAS/8ATTPf60otpIoI74HfPnfIQeXQ/wAPPHp+VQ6ePtk0lrdqGt4flgRhw49ff60odpdRfTXJ8iNgcvyHGPuH8/0oAeYTex/2ohEcmzMf+yoOT+J5FKC2tFZoW2RRbXj44Z+4P09qV/MtZ/sEZXZcMfLOf9WuORt/PmmSMNGlW3t/uzrthU9Fcev1zQBKbg6tA0EaFcZErH+EjsPc0ST+fpqwtEpuCQpix90g/wBBzSqjabIsrFnE5Hnbjna2OufTtTUeZZY9QdcJJ8rrt5RO34570ALDLFBZz29ymXDkFO8m7ofqarrG1s4ZlIuYxubnmSP+6O3HA/CpLjdLNJeoimGNlOSPvAdT747VJdbb+X9xGJBCAZM8bwRnZ/X8KAM5IEf/AEgZj8xM24PRVHJX64z+dT6RLYHUUF3D9ps7nakasxBQ9wMEDAzzmmXQ82FYbAgCZM24JwUP8QHoMVF9njSyEYOCy+SoU4KydCPcE9aANK/tZ/tA0oy8AmQSoQQ6Z4A9MZA/CmTSvdWcNsFEdyzYIxxGV55q3p8dpL4ekkS3gs7+HiKU4iW4x169R2PuKpQNKif2rkv5xAaPrtTPQfQ80AWNPzNJcXFztEm7y2UfdAXvz61Us8tqgt2y9qis0TN/E2f6cikuvOuHNyhCW7v5Mi7eWXpuz6elXNRVRawpbndOmDABzyB1PtQBWvSi35gXckMmHmYdFOePxJAFSawFRVeIM0gRlMaddh6n6jtTrMRtom66ALkbpcnkv7+/SjSpAWmkuNyT7VLBz0T+HJ9fWgBb7Y2kxrb8z7QYAOu7H/66SylWDRhHPjzlUq6HqW9Kisti6w77GWKRSISThevIx6k80y4BfX0vVBMFuPLkI6g/T8aAJrFhYyMLpREWiDAn0A5X6CkuLaW7dNRCESQcwxf3h70++Bvbny7YK5jjJJ+o4GfQ96kS986GKG0wJXTqRwgHBP50AJI66shgiP7njzH6c/3RTBJLbI9imTK2fJII+Vf/AK1Dt/Y0gJ3yxTt8xPJD+pPoeBTnsW2y3rkLd7cqQcBQOgJ/nQBHcL/Y8a3ECbgSBOoP3j/e570+WyZLV7guouN/m7uy+oH4URINVKTTBXgVdoU8hm7t7Y5FRp5lzdyafKwMUJD7t2WZc8A+hzQBJpcpvp4NVKKZLacPDFIPlG05wfr3r2OHx5pfi/wu1pa6RcarcSqY7rToMKYwOCckgYyBgZzyK8Wv5XsL1IoTtS8cDC8bP7x+pzXYeDfF9v4AvXW5TOm30g87YuXR8YDDHUY7epoA5/VdBvLbVJLfVrOa1QLutIrrBcejErxn6elZkckuqM1tvw1qCrlujP2YfQivXvHUGs+NNBjuNJ0CUJb7p7O5kuVjJBGCWiI3ZxnAryGRv7JtIr1oyHA2XEf3WZz/AHvcHNAF2S4/tG1GmFf3rfJOCOY1x94dvT86zYpzZyNY423dsPLDKOJU/H0yTV1PMsII70yFgx3Tn1U+3cjgVHfxzzIdaRctEcJGUPzxHjkdjyaAImjW3t3UOXUYuIZSOZD1I+nSorcLdBri5QRG5QguP+WbA8AemcZpys1/5T20jJbAFoI26eYP4SfQHpS3DiSVYwxCXRAugUPy4GM57dKAJbEjWl8y4GERdqpnow/iFOTzNSZ7G6GFgYF2zzIO3T171VluTYyxrHHiXmBgowCuMhgOwyf0q5PENNsVu7co0i4MrbgBKO59z6UAAecKunk5k3YLjHEfqPpwOaVbn+zpXsyN275oF6AD0/Dk0fZGRRqAZfOYh5DnaGXH3fbt+VZ93qENzJIt3E5+bCb4iQieuPU8jNADWGnJeuZj5pUMZAucSMf4V+n9ajSSwhWMEeYNpLFQ2W54Tn/PFO+1CORUsbeSPyQQqkbCFPU5PUntU0tzcREqLMAqu6FN4IUnuR3bmgBftloznMi7pFyzqh6f3F4/n60gvbP5GDJFkbVOw4gHp0+9+fSk+2LahYdshmQlEXYWEXGTj1PuKRbiG9t2WUeRbqSXWTqT3P8AtMf0oADb280rvHHGFVfmDscH3IB6ntjin/YX+zrDHO8PRnGQdo9WPr7CmfZ4fmmtrdY8ALHIh5T3H94/TpQ8FxHIY/tK7GYySJIcnOOme54/CgBS97GNnl+f5u4q44coOmewB/OpVuNw/fgR7htEgGVQeijrn3NRJPFLI0bzOk0ij5ZJO3+23f8A3abJBPITJaTolwx2/IuC+Pb+FeO9AE3lLEv+jqsYYFzBn5cDux659gabHe+cxjk8y3uWAfoC7egXsB9ahgwIGS5t1WRX42JlB/tKB1P0p86h7iKaKSWN1yPM37ncejEfc/GgBZIfJDCGGGWUHLxKWA/3mPr9DirAkWRRcBomwOZWB2r22qO+OvIqGKVbiDyvO+XJAypSLHfOeHOfSo7eZklKCcgxjcoMJGAeMIvUH3oAfFmGR4g7x+Yd0cpAMsp9h0A/Ki8Bhtyyj7NKPnRBlpGbpz1HNF2TEEmUvGVYbpC+6ZkP6gYqdpmijOHaJH+/tPmSuMcHI6ceooAUyO0aRp+7yuVggGXcdwxPH61FayFoCssjRKJGVLeMfM4B+6T/APXplhMU0+FEfy0f7yQjMjH1JH3fxFLH/o+oXAl8y2UqhZIjukc885H68UABxb6gqbm0+OSMsUT5nJzjDdaLnEc9r8rWEe9vm+9JnHXvxS4lh1VGVltWaEkyTsHMgz+HNEgL31q9oXD7mHn3IJPTpjg4oAkuEb+z7l4YFRSh3TTnmXjqPSiBkMKOsc+osqD5uAI+OmOM1HqEnmRrHNK13LI6rhAREQfQ9A1TX0s8djJ5l0lv5aDZAjjeD05Pf8qAGWZT+zLc3tx+7K4W3To317g07SxP9mkWGJbVPNbMknUAn+E+o96WGNUsJBplr5YMZDzyrgnjPQ8n61HbyWi6dA2oStcL5YzHGpZFAHGQOhoAbZmEXty4SXUJQ42N0JGOT2HWpoEmvr2a4aY2AT9yEXG7jnnPHftUlnBqEVgEt2it41yV3Lu3AnI6Hiqtt9gTT1nvN93LJl3T7+G9cDpQA5DGurs1vayXZhXDOpHzE9Sc/TtUrR3N3qgMs626xJgmL+EnkA5749KXT4b57fzYBFbiTlWcb8p/COOmKitI7J0nuL6Xzt7ZMLHccjjOO/8AhQAS/Y49ViSzhMskOWZQSd+RjAzx712fw9sZtb8aQtc2P+hWaGR0Y8xydYycH1Bxj8a4/TppD58tnaZhLFY5GYLtT0wewr2P4SaWYtAuNUuVcXd3KUckbVZEPyso989e9dGHhzVEZ1HaJ32KMU7FGK9k4xuKMU7FGKAG4oxTsUYoAXFGKdijFSMbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAPN/it4YguNPi8QQRKs9g4e4cNjdH06fxHOOvavI9VR710NmceQd0zZxkf3c9/pX1DJEk0bRyoHRhhlYZBFeFeLvDn/CIa3ckQrHp97I0ttsPA45j55zxn05rz8VS150dFKX2Wcrqkpk06B9PX9+xV4lUfNt78elOKW66XCY3IdW3R7fmPmdwB378VFpqm1vGlmPy3gMkef+WY64P501ARq7XDjdaySgRjoA2PvfzFcBuTwRJcaTK9xzcY3S56qw5A9u3FM0wDUonmvf9ayAFO6jsw9M0lxs/tL93v8Asu//AEjH3d3b3z09qXUpXtr6JrT5RIhEzL/Co6N+FAC2bPfyeVJIskVvlX2nq2ePrx+tOCTMBphb7mGMu7kpnj8c8YpLsQ6fbwXFu2zB7DmQHnH49af9laK1iufMVp48u7Z4kJH+FADfMms5HtIVLF3BjY9geuB6LUisdMkEOGeFwShA535+6PXPJqJoGurZ74H94210QHpt5AP9aegfUi0jMUEWPK2/3scn6jkUANgD6fdS3F5tSKf5mIH3G9CfSoEUrqcepMNsLsYlQdDngMPrU7GbVbU2zKImUfvW/usOgH6UjztLaiwYZueEcY/h7uO3vQAy7KyXgvUTfawjEpzgMc9cfxY6c03Wg880S2uQ8WJJccZQn9aktJEsLN7GQGSSNtij/noTzxTrDGnI9tcKu9U8wuD98enPegB2oMghimsmP2gKfIEa7sjvx6dKjuFjTRPtMHzSxfvA2c/P0OfXqaZpKGC9mkm+VbkB4Qew7j260Q+X/aagbvsRJEYb7pkz27+vWgCW2iW6spp5jidiWbJwYjj7ufSmWcZ1e18+5dTIoaNGTop6FhUd6duqNAPktZArzMP4Wz/XAFTaixtbqE20ixmU7JFA5wejegxQAWznUZRGzK0VuNr7Wzubt9eP1ojecAacM5DFWkPJ2Y+9j36Ut0kWlrHcxHGBs2f3885HvQ9u8FpDdBhJPG25yDw+eD+lADjJJbLJYqu47cQErnPsR6DjJpqTDSUkF2MI2ChAzk45GfXP6UoSa6je9QnzUJ8lR0IH+PemyLNqi+ZEQixr8menmeo+nIoAh+ztDMftO1RcAtFt/wCWbDnGfTAqqsZurlbyR18l18ncnaQ8bgPr3rQllOq7rOMGJ0XMjMOVPYD3/pVWaT90q7tsjhoJBj7zdA/sBQBEZVW8hvWX7RHYHa8RbdGT+PQdz71p6tJZXWopb6VdQm2uxl1hkyY2HJwOwIGKz4rZbW1eObEhgXZIvaUNzke9XdDubDTra60rVTFEki+ZFM4J3OemMdhgUADSTW2bFE3g7ViJH8J68d8Uadbm2vpUuZC7xriJmGMoeTx9aht4JJY5b0yb7qL5VI4DBfY9mp0kc+qhpUlMJhx5e3oxxznv6igBkw8zWIbteLL7rE/dZux9+3NT6mGluljt4952nzyp52emO5PanrcQ/wBlRRwxkGVSkcXcH/63Wo9IA0+ykgu3AljYlie47GgB95JHc6eLe0+aV1xHjquOM57emaSKeOLRG3LsfGx1zkhjxyfxFR2Gbe48y6iEYlJEJHRRnOPx60jMH1OO+8sG1Pybz2/2se/SgBdM/wCJVZtDe/61AXyOdyjsD3xS22+0nimn27bjI+UdCeR9Bjr703UInv8AUI2t+RaYdh/z0z2H5VNLMuovDBAfkI3yemBwV+uaAHCH+1oxLKzLDnMSg4/E/wCFMSWe+aSylXZs4lYjBZe2B7/pQl3LCI7A/wDH0cjeRxj+9RcQ/wBlx/arZWkfI84Z/wBYPX60AJMw068SC2KgTptWIt/F2PsMUXVv9g00TRuonh58xzjf659anjtVuY2uLra7SL8uOiD0FV7Am/8ALaSUSLbEjOP9YfXHpQBNDai9szPM2ZZ0yGx/q8jjH09aqaYw1U3H2oZ8hhGgz0x3+vFPm/d6g0AlC2khG4L/AAse340mtFrFEmtPldh5W1R0Hr+lAHr3hH4kajrdpNpFrp32zW7Qhd7fJAyf3nYfd7jAB7Vw/i7wtrem68NU1jT7a1sLp2LpBOZkWVj3LAdT0FVNH8QS+DLmPVdNUMNoSaEcidM9PXjOfrXp98Nb+I3hjdZ2Wn2mn3ADRLfs5mRh0f5CV75AP4igDxKImbWH04k+RCRIMnORj7p9uatpNcRmTTYtzOxyjHkLGeuT69aZf6dc6JY3VnfLt1Kyc7vXJOQffIOajgjaXTPtqvsuGbzSSfu+q/kP1oAqzW39kag1giyNDcEPbOx4WQdB+Z5qWKBYI5VuHd4pBi6LfeV+xPoMVYns31+xluHV0IUG3jyNykdfz4rPhdNRUS3KGKOBgtyin7zAYDH2A4oAnTzGMs8ql5k+XY6BWMR4z7dTzT7B4bu6WMPvt4QViDDiT/HHr71Hcmbe0cW9p4yFZlxl4vVv16UT3ENjsw+1AQbeTHY9QfYce9ACXs00EktkiGaBmARVOTk87Ce3rVeWS9bzw8UPM2Cu87uADgcdB1qBryVWWITw4Vzsba3U87+nbpUZuTIo3yiNWG4eWpz1+7z6daALhlvnWNWihXdul8xnPzFed2cdPQU1p71gixwRhlO4fOSxfsenXGcD0qvcX5SDeLhJZB8pDghm9GHbA7frU9vczrlwIjG64jkQ857hc98560ATG5+zZQRSmfJR2C7gmBkgHuffrUIe0uFXYRJJ5eXBPCgjp/i3WkjuFZIi42GX7qnn/I9O+evFKNlwjhtzZJR9+A2fQ44+mOPWgAlsftJC2twzMRujZDhRjjgDt/tetQRXz2jCC9RW3DCz/eBHqP8AHrTGnkgJkVTcQk7WSThoyOBnGP8ACrblWUJKGKycEEArn/axzn6cdKAHvFbzBA00ZDIVV1QE57qv94+55qOM7LVUd4m8ttu/zCufZmHOf9mmC5igEcRaVcnZhgM8f3sdv93mpZg/lkqAZhzF5vX/AIDjjH+9zQBK0aCdWRpo51UlYyPmkJ4OE6AY7il89xbhnjSJAQGRuEJHZn6k+xqGCTzYFfaqRsPmUZ2A+/8AFn6cUlrI0VzLDGVxjMasCTluu3t/31QAJLLHqDpJDxKMxbl6D/YToTUl47wsskrqkwbcmf8AWSA8Ebf4ePSorkTw3dvMJWEjnYVyDIR7/wAI6U69eI2jINsQ3qfJUEs3I4LHj8jQBLdZhtZ4lIifYSE/1krKf7xPIFPt+IVhfhggDxW/zyMpGcluCKZeZWylSI+UQhYRQ8nB67ifT2NSqZIrOOJZY42KZQWwJdvYk8UAQWEiQS3NvbloB5hxGF3TMPTB/nmnwEW+oXDRs1pGFTMtz8zqeeOexosCYdOiLzwwLLyZEBaXP6il02Nn8yaJYmfzGHn3JP7wZ7Af4UAIIz/aym1t2lJiJY3ZODz95c5pJ2S7v4Nksl88eS5iGFUdhx70W6pNeXLtay3+GAWVWwF45HUcZpyNvvZZrm5W1Vf3JWBc78c88H1oAdehhJbwahJFZ27kuUi6Ar0+bjrRdpujghtbTMckmwyT/ebvweTj3pIIxLqjNY2ixrEvyvKSUIPc8/l+tI7pNqjG+uvljXa0UYJVs84HHSgB2oSH5bc3j3NwHG2GJcFcdc468VPdSyeSUiskgt7hhEWYbXBPGdtRxefd3aGytktksyRmbucdOPamypFLqROo3PmxxLlkP3QW6bcc8Y70AJqAjii+zteSXF2oCRRxfKR9QDzUtzNOIQllZrB52EJddrn1wO/FMjkWfUFTTbbfDAMB2+6rnkE9+mamZZ76723E6QfZz8ssP97uvze1ADL62lstOSOa9Ywhlj4XYV7ZyPSmvNa2liI9Ot2llb5Yp/LDB2/3vzpR9lt9VbO6RkQbcZPnMeue2f8AGnLNdX9+v2e2EKW4yRN90P2I2+1AFizsdUuzbaZbRLE8rCNEiPmMwJ+bg+gya+jtI04aTo1pp6SGRbWFYg5GC2BjOK8y+E2gSXeoXOuagVlEDGK3Ugjy3x8zL6qQcc163ivTwtPljzPqctWV3YbijFOxRiuwyG4oxTsUYoAbijFOxRigBcUYp2KMUgG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuK5zxz4VTxZ4de0VYhdRsJLeSRc7GBBOPTIGM+9dLijFKSUlZjTs7ny/qiPdSSaUyIs6OyTbvnETLwRx+hqKab7Vo5tUGJ3HlhO4I7n0HFekfFDw4mj6g/iWIxpa3JSK4QKF2P2bjrnJya82VpI7hNSmUKr5RxtwET+8T36D868apBwlys7Iy5lcfbSx2unzxXIPmIdjt3kJ43frjNGmxRwQy294oWTHIc5ynYZ74FQ3CNPff2lADJDGoUL2k55P0Gc/hT7/F9dRG2XzPIw7sG6qewHfOKzKF09hPc7LhXAXLW6Oc/KDjP+HtTECm+FqXzAszYTHGQM7ce3XNWLuWKeGM2hzcYzHt/hx1z7UyX7OdFSWLcgyCr4y2c+vv0oAS4j23j2ySKsVyPmHZPX8WzRd79NYmzKlpgFKufukDAbPpgU+3jim024Mr7WLtvkI+4fY+g7U21gjv4Xa6bLhPLK5+6v/wBfGaAHXH/EqRblSxi/5b5OcnsfrnvUYEiwjVFc7pAGdf4RH9O5Aott2oXTxXLLJBGv7vBx5nbdj0/wpiSsbgaO5wMEkj/nn2H5UAK8D39wmoqpxCwMKn5Sy45znpzRO41hY5rUKY7Zix3rnccdMf1p5aazaSwg3Mzrm3J+baO+4/Wmq0egAxkExztmPHJD+h9vegBbyQ6pBBb27eVI+JCwOfKI7H3pfMhbTY4/KKzb9iKpwwfnnPbPJptvF/ZF089wwCXRLSMfuxt2Ge/WmRo0V0NTlUhZnw6N92MdA/6frQBNAIxpUsVyB56gmXd1L9j79uaZpP7yGY6h/r2jXzQ3TZjjP9aS4An1QXSRlorc7JTnJP8AwHpgZzmjU5VlkVrcB02Fp3U/8s/65HSgBdLH2iWRLl2kELfuQw25Hrg+nTNNhCzTNpgf9xC3UjBOOdoPc96mvwHhtxZuUnADR4GTtx39qV0t30ZZImMY4ZXb7xOfX36UAMkMttcyWsDBUmcMDnkZ+9z2PpUkm/TplSEFopRtVSf+Wn9O5pscEVzavdTybZSQzt/zzK9Bj2ptor6j5z3mNy/Kiq2Co9fYnrQAu2TSUNxMxlQriTHUvnr754FMaN1ZL+fJWcBJYcYAU9M/TvSwM1/Otvcuu61BEqg/eJ46env60qNPLM2mSAlRnfJ1wn8Iz6kd6AKKRG5vLeVJfMNuGZAePMXPr2x0p8KWck8LtGZ4rdDJHscIzdcKSfQ8n2p0iLp7W9kufMDFoCP4xzkMe1RRRw2mnIhkPl3Db4pCMNu7r7A4x+NAGne6lB4gt4rizc/aEh/08CEgMuOfm6cc4qGZmsnLWZXbcRgjef4hgA+wx3pdM1WLRMMlmHW4ZjcqvzZHcbeg25/GnnT0+0Mlx5rJcRM9v5i7WEZOSCO3PT2oAYlqlhqEcjs0qTE8uc7Hx97Pv0qPUI2v7iK5hGY7OX5vVsHnA9sfjSRxnVJHtLyXmBcMqNgh89eOo6VYguxaWZiZP30b+WFPVieAx+tABfub9YobFlL53F8Z2D+hpRdR/ZBaxRbZSTD5Y6A455+hzUdjb/2TctG5ytzly54w/wDdHrTPMb7QmpgKtux2lcZJB4Dexz+lAD7ST+yraS1lVS0K7lKjb5mewHrTLOP+yGVpGAiucsxPZzyB7cUt3C2pS/aYgcWbHYoHMjDqPbpSz+XrTRQjDRxjfIVP3X/umgBY0nIGo5bJYs0Z4OzH3c+3WprVv7TxcuCIVb93GwxnH8R/pUAuJLxEsC375W2zsv8ADjn8j0pzyTWEgtIVLmZyY2HOwd+PQUANj8yK7fT0YRwE7lcN82DyV9jk/lUl6qWUlu1sAjAMu0D7wAz+nWn3dosGnl4yBLEfMWRz/F6n86WwAulNxcYab7rRnpH7fX3oAZ5MI0Yt5n+s/eh8fxnnIH9KXTP3gdro77lBtcnsDyMfUc1Xt9kt0LZnYwiVnQY/iU9PYDt607UyvnSNE7KFj2zlB90ZHPuf6UARabzrdwj/AOoj/wCPYH7o9dtd94A8YX+nXk3hjT7eFluGMlvdSuFWGRvvbs/f5xhRg1xWrDbpipaj99keSqjnPU4/CltZ/senxXcDAXUUomTPOJwc4x9e1AHc+P8AwNr8ZHibU76wuBbMHuha2xhLKBjecsdxHArzu6O/WlgXi1lAaUjoHByOex4Fe1eHNT174h6DI81/a6UIwIZ7VIEuS5I6uGA2nuBzXmGv+G28HajfaTeXC3G8efDKR99W4GR2OR0oAy7m4ewvGhgJAu8Kuw48lj/Efrn9Ki1Wyh0Zo76NVdJgIp4yPvZ7j06UlhFus5479ilyI13uf4Vx8p+oqxp6DWTLHfoVSFPJCE53Z5D+x/xoArxQi0V3ifddjEjSFwRKhOP/ANQrNlkhlvJA6SC3LFnWSFmMee49M0XjOtz/AGZ58UaWcmFmc7Sy+nvjrUj3O5JhFqHmlpBsURgvI2eh/wBmgCN3t5B5pkvA8ZCxsQT5K+p45/8Ar0H51MFubtnjYmIMSoWPHJ5HfkU90V5pHu1u2UAGfamwA44XAOMe9U3keK4JwRIOfLM7bsHgL+B5xQBYRIHgKziNWkQlJZXEmxB0GByDiq/lIPMV/J2lQWkSAsE9OR0yOamjWSRWiEbl929FFsvLj7w+gNPFw0Nq0KCR4GjLunkhdxzyMjtnvQBEgaJYWwyFmZim7ywPl6YP8+/Sj7QYEBiiLoU3NGgyIyR6joD3FNl2IQ8jTR722OJU3CMjkAMTTZpXEwmSfaWKqCqBYnI65xwQKALjybR5jonluoDsBuI+p/iX+XFRG6EM/wBmjE0C7MK4O/I6446r7U1pzYyxrNG8SS/NhlyFPqM9QeuOlPkmnZAiFFkzuO1Qd6+qH09hxQA+eQSQZAc+Wm+N93yg9tp/h/3etJDIs1v+6mXBI8wRxHDezL1P1p6YuVeQuJEAOREPkwf746IfcUy1ATT0J+VNxAJ/dr17OOW+lAC2p2zMo4ETbUPdR6CXoKdh7fVB5c5xMuWEcgQZHq/QmmW8ixXc24RFvMI2SybO3/PPoaeG2ao4kRSwUBFmQIRn+7H0JoASQRBoldN2ZgShjMaNwepPBPvUt7uaxaISFljZR8ilIQufT+L8DTbkqdSh+0u8fyZLXK7Vz0BCdDx2qSeUrcQg7z5f3/PjEcaoeAcDjrQAlwfKtWtEl3lztjFqpSMlvU8g05nWytmX/VLt5jtRzuHHzOOKbcKLmWG3hka4UksjQpsXI7cfz7VLcyeUUtZHj/euFmtIFBbGOuepNAC28U1lZ7I1t7Ofy/mkZgzS/gD1pkCQCxMkllLdlF3y/aPlCnuRkc0XUR2RwW9s0ayPxLck7128nrnjAovZo7vy4VvJL5y3KwDGE/izg80APiZLSwAkvh9n5ZUth8y55wcZ45p1hHcW9i89vZJBJIpdpWI7dtvWmXglVFt2gt7SJx88icsE9SMfSlnMdy0XlXUt64Pzm3/gUeqg4OelADbdraKzWW8uppPOJkkjhyUGeSCBnFPsJZrPSXeC0EKMS3nMe2eCV6064F1LNFaw2sNqszbwy9dq+ox79KZqDKbmKzvNRDICDIm0R8emR39qAJbe3VI5ZL69xPIS7wxShQTjpiobF4bOFri3sC0gJJLDyyoPRRnr+FLPtmkhtbKxYuvzOZ12kjsd3J61M/2/Ur37NL5dssBWRih35PbqKAEiivoLOS4urhYY3y8m1f3mO3zZqJIrGDTWlvZVuZmG4oziT5z3AH4Ul6lodSWC+vTnbulYyFQfRdvQVJ51pcXyPa2bSQW5+/DECHbHSgBLa+NnpipZ2r+YzYbeNgV29AeozVyw0/VZZ7Wws2hWW6l8uOBxkljyfmzgd6r+ZfahfK8UKJDESNzNnk98Y6j0r0z4SeHp7jULnXdQkM0UX7m13QgK/q6n1BBFaU4c8kiZS5Vc9L0TSodE0S00213eVbRhF3tk/nV7FOxRivZWiscQ3FGKdijFMBuKMU7FGKAG4oxTsUYoAdijFLijFIYmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQBQ1jS4da0e6065OI7mNoywAJXIxkZ71886/YXGjazN4fZt0kRCmVV4MZGQwz3HAPvX0riuG+KXh/8AtDw//alrHm707958kZaSWPvGMepIP4VzYinzxut0aU5WdjxES/Yozpm0yOUxER/ED6+460lkDo0L283zhU3q3dz3A+lOVJbxft4YgxktAp6Fcc5Hr1FMdpdYjSeANGsWSEY43SDoD9DXlnUOsE+wzsZkVFujuQrnCnH3ee/ekV4hdC6MZ+yM2FPYN/e+h6U+SU6g0MCqVZRvd8YKkcYHof6U1JkbT0s3iUz7jHsAwoYc5/DrQBHd7P7RfG7y98e/HTOeMf1qbUCqXSPFIVYrtkKj7qf3vrSxSxW9lPbzxhpIlzIv/PUnv9TTdLCW63KzsyucMzOcZGOMfTpQAt2sdjHDLZbRJjaq9nXqc/Tk01rcQ2K3kcgaQN5pcd1PJUfWm6eqG58maNvKVf8ARzJ3U+3r1/CkjxLeLAZMWaSfuwRzvU9M9h7UALBG2p2Rvs7Lg58on/lng0yILr6tMcrHEQEVuocHOfoaW6ke21SCztWKwXDYk2/wH29M0t466NIvkLiO4/dqicbW/vUAI7jXllspP3Qhb96w7t7e31pzzG7sW03GLkjYyj+BezH8MfnSTgaFD9sA8zcAswHBdvWnG3a2B1UZeZlzIoH3l9APXpQAsU4sLOS0lXc0eFQd5FPG4/jTrHZpqNbXexCSXUjlWHoO/FRPC95Ouq268ooESnuM8n8s8U65B1O4ja3RcW5WQFl5Y9doPbpzQAadmO8P2mIIZFLRY6Iuen49aZbhBqQmO57edz5Weitj7w9u1SXU51OKKOxIEm7LMR/q8cHn1olkhnsBZLGUkL+WEU42sOev60AFysf9oMokIilAE2Og9B+POaTUf9Eb/Q5BE0ijzM9Ao43fh0qSBoRpc0Nx8m0skmPvOf72PeksoopY3W7XdKF2lXHRO2P0z70AF2iackV1AFUINrgdXHb8ic0jQ+TYrdxSBnDeaWH8QPJUf0pmn/6Vev50nmxrHmBXHO08bifXqKSLDXy6fJJmONzImBwcchQe2KACCI6nBHqR4mVi0at0UDjFUlEWqOjDfGjTllzj5XA7/wCzVy4la1umsYCQLpvkZekJ7j8etNvRFpMYiWMPDdPgL/cf1+nTigCvchNRklj3+WzHZKw6Iw6fgea0ba8utctItKKTfaIDvhuht+6ODu9vp7Vn7YbK0eSYuF3tFcjPzSZ43fTriptPW6t9VhuLCQJePiPa7hEI6gknjbgDPvQBJMyW9pFeWw8nClJF/iI7fkeaX7LHbR29/HiSTjzXycOD1ar10Vu7iHU5LRYo7glGQMG2Pjl2I6E9MGqC4fVhYeZ/o8eJIxjPzDtnpgelAEt9ENWkWBGPlRjeZE6huw/I0ouzNax22xRPITG69oyBz+lEM6ae89u5+RTuiwNxOeSD75PSoUhbT5Fv5vlaY4uTnIHpj8cUAPgnfToms2zNIrAIxHBDdM/TvTYUTQ5X8x/3M+WZ27P/AHRSzCW6zfRlk+zsfLVRy4HX657U64iXWXWNgfs6LuJHB39hnvQAyO3ktsaiV2SSMWnQHt6D6dakS2a9WS7LeWzOGj5+UqvQ/Q96jEp1LZp8oBaM/wClKBjGOmD9cU6RJok/s7hhMx2nP/LPuB6YFAElnI+pStLOhWOJsInZj/eqK7Jh1BljlEcEuPO29VOev48Cn3X/ABL7mN4BuEi7Gj3YyezE+2MVOlrFDpxW7Kvn5pH/ALzev1oAZqEccVrCkS7WEi+WB657+3rRZyQpYS3E2csT5pfqcHFN04iWd2mLNNGPl3/woeh+p71BIUa/kJVjbySqshz8rHHXPoOmPWgB2nJ5eoyGXeu6MGNGIwi56fWomBfXjM3NicAt/D5g6frVrUwLj/RoQfNRN+4dVX2+vSkeSNtDWGLIaSPy0TOSDjGD9O9AG54e8SXej689paXzWWn3uEvblACbduMSDIPOOO45rvPFXwuvte0tZW8S3uo3EGJYEuUjCt3xlVB5HSvIrQpZ2NxDejLxgF3I/wBZxwfw4Feo/Dy6vfFto9lrmu6pBqNkgIWzuCitDnCsxwctnI/AUAeXaoDJdMm10mtNy3UXHy+qH34xxTrqV45IJdNjEkzRbfJzwF9fw6V2vjnwQngu4n1yG4mn0+6dRM877pFkPc/3sk+nFeebba2ja5FzMXckQwwy5YA844/OgCVUuwDp5e0VkjDGVs5Iz0qo8inzJmult5LcGOGKFMgke5HeniCOSMRxWZu7mY5eacYIPfg8jjv61ObO6nxp9rss44sOw+8ynscjrmgCkVjCxxXe9H/1hNyflYdx8vPU96ilgtJxJJcTssitsiSJTgj1GRmrbW08azyT3UBETANK0ZJm9s55/wDrU65ubxFina7gkmYbUiij37PUjB64oArxLFZSJ9muZrpGUmdUGOnbJH/16pXCwO00kauF3BYxEflGecEHmrrXRe3aFnkba48p0QxAv3LE9waglaO2nTopjO5njGWL+m8cc9aAJJIgkv2mIYRRtDW54D+4elj+RVt554UZn82WUKxZCOcdMUqxefCzu+6WJiXWRhKJWx2Uc/jSROWUHNw+9WEyJmNRjooyO3PFAEBV4XOZ5AYn3upwTjsw9sHpVhpmMbCWZAu0kswOyb0PHIP5Cq1xG0ojSVoid4DMF3SL6A4+9xU1xv8AsAETxrGzjCxcI4/2l/h+poAdanzreMea7MANkYAWRcdcZ+Uj6060EiwjZE2cnc6Ebhz0Ibj8qW5PmQiGUKrBdqs/7yME9lYcLS3R2woHVJnChVWT9/k+gYcL9KAFtRuMvkyOd0v3IwNuMdctzj6UQpJ580sG9cNsK22CBjvl/X2p00aLY7S0apGvypLIJuT2VR0NIipa6ZGvkSOj8BJ5AF3nvsI7HvQAlsFe5nKyYkyNnlAlm45A3cfX3qS2VmuJruRokKHy2MxJf/ewOM8/SmtLLZ2JtVumJx+7FvGQCx5xu6EdafKFsLYPbwQW88eAWZxJI2eO3OeaAFtyZ3keS1nvrdDtjclVwe/TFJGUe6EjXC2ccalYzCpYtz7g9OlNcxC0+zW8t9JcTZG0gorE9TyOlWXM+n26RwJbWTvhdjYbzDjrkHigBkUHmXLTtaS3an/VzbgFb/aPIpYgXknvZ71bMBvLxAAc478g1DM8drZLbR3V48vC4jB2MM8449Kle2AEdrY2CQPOhCzuQSU7kjrmgBtmyGWS7a3mvju4kJAKAevQc9auW4uMPeobeFJhwZMh0X044qC5Wcyw2F3fw+Xx5ioNh2j3J/SorxrN7mO3Z7m6jU5fcpfaOxUgevFADrYWLNJNqtw00hPyM+eE7H5fWnW8v9nxTzNpkhRzu3AqVA6DGTmpBJJLIbSzsNlug3ugcLuB6f8A1xStFqF5M1sJ4ViixvURnA9FPPPFAAq30VnNcTyR2wmO/IyXQ9l9Kj+zpaaa015dNKzLuaBiMFz9OetPMEE95LBc30ht4wAUkmAy4PTB7VAkmlx6k8wtsQw/ceOElc9ySPSgCe2msbWxKWYEt1JyEdTlm9MmlW4uraAQ29o0U0p5abGXPcjHcVKbieaX7X9m823XmIs4THuQe9Rouo3b/bmeOBf+WUUibiP16npQBf0fQ9S1LVbLS4J9kk0oMn2b7xTPzud3HA5r6M0fSLXQ9Kh0+wj8uGEYA9T1J/E81x/wx8JtYaXHrGs2+NUmB2MR/q4z0wOqkjqK7/Fenh6fJG73ZzVJXdhMUYpcUYrqMhMUYpcUYoATFGKXFGKAExRilxRigB2KMUuKMVIxMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUEZGDyKXFGKAPAfiRoc+geKJVso2FtqbeZFJ5e2ONv4oxj0Az+NcqxOjskUCNJDKSBuOdrnpk+9fSHirw7F4n8Pz6bJIYWfDJIAMqwOR+HHPtXzxeaXL/al3BfkeZayGJNuRtZTgsM9j2zXmV6fLK62Z005XVirDC+lSGR2LRSAmVjzh+30GOKb+8hMOoTKE3t+8TbyoPAx7570kYfVv3F2uwW7fMM8yHt+FP8AMnlgFgTm4UgO/GNuev49K5zQSaTzZ2vUjUxW5KsD1bHU/h2pmpkX2FhjMixoJG2nBPoh/A5/CpPtDaeptZF3vI+IePlIP+HenwSDTSbebBBUyBwPfofxP5UANvnW5hi+xfvLhV3R7TwB0Of1FJIYW0RSoCuhBVc5IlHQH1OabZf6LdPNdRiEzpuLHsf7v0xzTYSE1BLgxhbSUnYW7Me//AqAFs1SXTppL/5LgnM2flKHt9OKTS1k1CCd78ZmVjGMj7oxwcevPWmahk6kpi/49Cf9MI6H0z/9al1l2ili+xEq5I87b/cJxzQAunv9uu2hmG5bLMeG5EnbJH4UkEjyX0ukF2EcYLNID8zA849utS6ow06GK7tEDNH8ixjowPf1NJNEttpCXMbbpIj5o/2if4T+dADi0lk40+FCySLiFzxt9Rn2HNEYfR43jGZIyuYyf4n7gn3NJBCb2zW+YkXRG5cfwf7I/wDr+tNjjk1mEXDgRPFlUXPR/U/Q9KAHKw0uZJp2VIrj/WfKBh+304pFMkF01/Oo8l22qpXDID0OPXP6U8M+osts6/JGv77oct2B+vWo/OmubdtOV2+0odskmOAPX+lACXeLm4W7EeYreUK2DjJB5J9hTtTPnOHslMsiLiTacfIecZ9ehqRLg2cEtqVDSRKBHxxJnp+PrTLIx6cs6XIEWcPubq+Rz+ROKAFvjG1vAbL5ZZAREydMY5+vGfxpXEK6OrRNmSPhGxhjJ6H3J6im2ANve4niEcci/uMnlR/d/rUcOwan9pO5LcuyIv8ADv7k/XtQAtogudFkuLp/LmlOXkxjaQcDHpRaRnVhLJdoY2QiMR9dpHO760y+51aGOH/j1kbbcgfdJ7Z/+tUmqytY3CSQDcbgeU6/3R/e+tAFRpvt105uIgws5AshHAcZ+8fpjpTJ/nkltIFM8kS8nP34jzgfiRV7UQNMs4bi3HmvENgU/wAYPc461V2pZ2skpXEkZE6HP+t45B+mcUAXtIuriztntENrNaXT7CZpfmUn/lp0PHYe4pbqEWdtNbyDZc2zERk8M5/hb/gWPxrLWHzWWcKsY2l7cMTxjnafp1rVhu5vEelxahOIpp7FlDogO7b3dvyyMUAQJGsulm9D/wCkbvMLyDaAw46VNMRqoS3Ct5P/AC3BGPoPrmq9y8UmqRxxljbSELOE+6W6jPpx6VZkmSw1ByD+7kQMyL2bpk/XgUANWae0iFmq/vd+2IgZwnr74HWkVP7Hchd8sc7fKByQ/oB6Hk0ptJhH9sP/AB8h93J5Cf3PTOOKDF/bIkZyywrgRFfXufqDkUARGI6WBqE3Dv8A8fRXnPpgfWpUt5bu3+1bv3rOHj5x8o6D2z3pAz6lMbWZB5cDYm5+WTjgDvUQkcXX9kBiGzv3dvL/ALvr0oAs2i/bpJLqYAqQY0B7D+LP4ioLENczJC7horblGLZMw9SPT/Cn3Ub2bMls4QXRCjP/ACzOOv0wKW/RbK3t2tVBliz5cQ6Pxz/jQAupsgkJi3CRFzKUOMJ3z746VPcSRwaaPKjVt6gRxn+Mnt9abYmOLTvPlYfvcyPnsTzioLLal+RJEVDqWhDH7gzyPxPNADtNC2izxy7vMjySzHLMvr9KigCjUob6RNsc4IQ54XPTj1NLqW66mR7eISrbtmQngN7fh1qxczJdLHawYInU/P2Uf0PpQBUvo2u7xby2Bkjt1IK9pTnp7itG01S7g1WCXRbs28gjJldOjIwK49+/061UhuYrG2e1KBXjOxVU/fJ54zUcen6baWKtdCN5FXDMrnk+nWgBmsahAIVSbVLq68uZS8Mt08g4PPyk4qtJdWsoFx9otbVoW3RrCoZm+vT8quwS2NpM8l0yRvIqgR7SwUDpzzzUUeo2SNPdyqGbpFFswQPTpjk80AVGmt2j3XGorLPMc/I+wIfqO3t61JLbWhjQ6fLc3Uu5fNeGRj8vfPNTC6ktmnubjS5DvbEbHbhV7Dr60mb7T7PGbWN7iTpzuQt/hQBWEMfnJPZW0jW0QLMLpyE3Z/Gkmlkt90832ezmkACIoG4KTjpjjuc0NEDJDawSz36I2+aIABR6+nc1bghMkjXFtBFDFCceXcEna3cgj2oAry2gnSKC2aWS5J3RvKNsbgd8dD9azcokisot4yWKlGmJAb+8VxjFa1xHcSbLuURYlYRmEkhSOzDHIqNo5E3wvJZlF+aaTnn0U/h6elAFVCy7VtZGkaOQpC8UA+cY559cE0T2uUU2u/YCQ3mzMrbx1Yr2xQyvPNPsuyEjIw0i7VkXPAGBnOailgH2dg0cYO7cTG53gfxKMnHFADIYhLdRpEWnVVJDwj5055JA68+tS7TfXirEGdByzwRjO3sGQcZzTItv2Z5ZNsjv1xlZI1HAI6A9qsRKYI2e7aPcw3GObPLeoKf1oAaWMt/5cjR/uz9wNt3Ht8g43D0p91886D7giYF2lHkAH0+Xv702MzpDJcywygsMlFKbNo6Dn5v61JDJHa2pZXhMjjqiuZDnsM8ZoAkMMd9cI8kXm26jdizjBw3puGD71CJIl1TlokSMFT9omLkZ9j3HpUkaNb27f2hb3DGQ5yzKFVjxu4OfSppWl0yzS3VrMs/AZQzN7tQAzCXd6FDTXcEK4Btk2KrHp9005IpHlLzJBbRWrbDKx3MG9TkfN171FKqR2gtrG+nnkkOPJRAAT36gcVK0QeYW9rYfZZcbpJJnyAPzPXpQACWO/vN0149ysWRGkC7Xb1PB6UWcEklxNc21p58I+VDdyHIHfAOe9Szec2LNZLWGNV/eSQ5yi+nPrUYngWeOAalLLbgfvFdMLj04Gc0ATQCd7c6lPcx2keP3aKgZUX2z3qFZ9OuIjc6je75xnb5chU7ewwOhprJbT3CNYadLLBC5DlW4bjjgmrLStqCieK3jghgY7hOOGYf7vpQBFYtb21uPtNlcSSzv8ryR793pyfapVbUNPjwLW3MspwpEnJ+gxwB1xTpFvbiOO4vHht4k5ATO5T2Ye9NazlEK3WoX8yhWzGhC554weOpoAf8AZ72zjAW93XU3OwRA5P19BVa/hsLaNk+1Ol7Jjd+/IAb1PtUptNPt4Xu7tBkj5Ilckr7deppIbrTrWJp2xJMRhIgp4/2RmgB88lm9j5WnxrdzcBiiiRgO5JND3G+MadY2cyIFw4ZMYB6A/X1pkF3ParIv9nzLcXJLDbtwDjtz0p0dxfLbrbwW3k3Lj52kOSSerDHp70ALK+o3Q+wrbQBFAEmJSePTOODXa/D3wlL4k1yVtTnkl06y2tlIwoeUHOzcOhHBrntF0PWdY1GHRtO+zLLMN0kq7sxpnlzn3/nX0P4d0OHw74ftNLgdpVt02mRgAzn1OK6aFLmd3sZVJWVkaWKMUuKMV6RziYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQA7FGKdijFIBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4ryj4ueFnVX8R2DyebIEguEClsDorjHQLyTXrOKrahYQanp1xY3YLQXEZjkAOCVIweaipFTjZlRdnc+W7qP+z44Lm2VXZBsYA43A8kj3zzS/ZDBA17bsGuGO+RlPysO/4Yrc8R+G38P+LJbGZpGgiT/RWkTHmocfMP937ua56AMbptPdwtsjfu9p5bvtJ9R1ryWmnZnUndEphnu2+2xNj7piXPO3vz23Ux2fWVcws0CwH5GxyX9R7dRT5VlhneyhOEuBmPn7n94/ywKSVpNJz5SmYTYVFHZ8envyaQwlkOqwxW4QhWGZgw+76D8+1IZ1ntVsRGFuASqAcbdv8AGPT1FKIjpt0LhmZ1n4mJ4Cn1x78Ck2zW7/2hKgLu+1gV5WPsT6YHWgB0EkcOnPbXyqJFyGQL9/3A71HpYeETpqXzT7NxJ5/d+mfz4pkqNf3VvqcIzFA2FC8ll7nH1o1InUfLk09wRCd0rqcAr/dz3+lAC6WGW+JuOUkBNoDztTv9OMU2251f7If+PWFvMif+8/pnv1PFSan/AKbZ28Nh+7mlG+I/dwo6jI6UtxIkmgfuBiUjbGAOS4649+DQAlyfLvHtoJCq3DbnbHCHuCfcDGKfc7tMkjFkqpFJkMueEP8Aex6etNtkhfR3N222RmDTeok4xx+XFPs4xetcG73eYy7DGwwVX19s0AN8lNIC3COPKYHzBn7zHnd7/SniC4jSO9c5mGTMoPVfQew61DZj7bIIL0oywEmNV5DgcZ/DpSxF5rttPEoaOJ8uA3ITsM+uf0oAcyzSudURjhVzFF1yvf8AE0l4H1MDyY1dIlD4boX9PcYzT3WWAtYRnPnljG+cbR3/AC7Uqk6bcMmGeOVQVIH8Q4wB6nrQA26lXUY1gs8eeq7tzDHl9sY9+lI8yS6THEEHm7hEAo+444yB6ChN+mbbi5C/vsmdgPun1z78DFJEZEuV1EhVtpByoGdo7N7e9AD7dreHTZbaYEmI7XVvmLE88evrUejxyGG5W/OZ8lCWPOzH8qiuSJ7xdRjOLe2cElekgx19yOlSaqj3robM4MB3TMDjK/3c9/pQAmlM0t8yzcLbApbnpuX19+gquYzNfSWPy/ZoiZIWcZDP6Z79TxVvUpT9lt7jTVzcbf3KBf4T14/KnFLddLhMbkOrbo9vzHzO4x378UAUZZFmk8uDEcs37whh/qm6HJ98Yx702DUp/Dt3C1lLHAJSVnRoyQp7kjPIHapVCra+bdf8tT/pJxgxuORn9OKSBzNeJqEmwhCrMHiDbcfdcg9j1I6UAat/Z2+j7hIA9rdx+d5mzGSex9SScj2qpZRp5MkWoKzXAj3uzNu+XPGD/Sp9Duj4na4sLqc/uCZbdBGGUHP3s/jwvSqd473U8aeXsnthuuY9xUgehI/PFAEsMst/ELbdkBgzOe8fYH1yKdIX05ngtto88j7OmcBD6Y/M5ourmKMW1xbAozJv4GAYx1GPXHSpYrQXEcs9yBumwy4P+rGOMHtQBHPCulA30Q3MQFlDHl+eufXJ60osz9me7JX7Ucukm4cDspPpUdlu1P8A4+HWWKJdh2ngv3+oxikG5r0aVvURxbXBz8xX+7juKAJbFBfwSXNyFbzRtCnnYBwR9MjNJpytLcEzSiU242LnnJ/vj88fhUV8DBeR2tu6xx3fysoOCp9QPSp9SjWCOF4SEdcqFXjcMc/l1oAqf8xn7H/y6b/N3/8ATTrjP17Vf1D/AEn/AEaEZm+8HH/LL3+vtUdxFFHoyBHDlQGiYfxv2Pvk0mly7LOW4vDsuCcz542ntx24oAfa3MNrYCMBg0J8soTklvT361DaIdOu2+0BFFyS5fpsPoT3602Rdl4mpTRFIw20LnBGeNxHqc4qxdwrq3+jAZgVsyOPUfwj+tAEDW9pqMqXWpMqBSRFG7AcZ7561XaHSWvXYQwmCEY2xrlmbvwOoxTrxNNt82HmKGf7zzPuMY9s9/appb+zhVP7Ot1mlb5UeKMEZ78+uOaAIVu7WaRLe0t5FgjcMqrERuf0zjjnrmpZWv8AVLhoERLaOEjzA53hj1A47UySa8sLFjtjt0d8iVjklj6qen9KrMbRbcD7Y95dOcKkDlSSfXB5oAtfNeTS22o3sYiiIH7s+Wdw7YJ5FUb57Q30Yjilu2UMsjyRl+vQ9ORV9ZLe2slWaymaQDb5s0A5Y9Mk0sZ1Cwt/ntoUDH55lfcV98Y6D0oAgjSOW4IW/wDKPHnsjhFPHAAPtSJBaNJLD9vk+xwqML5w+8Dnj1q19itZZBaRRo0QXfLLtBJJ5xntnOaq6reaWIY4oBA25vmZFGVxz/8AWoAiLRTzk+fcyyMuLdGJYHPqcYweMjtUb28aWbY0xAsLfvZfMBJ/3TTpsXci/Z3klMf8NomFj3dfmHXH60RxBZEmsoZmto0Jk+0yFULZ/EfhQA28nmu52894PLC8RkeZsX+8MHk1mRRx3MqxR+S4J+bjyztXvk9zU7F5pLgyQ+SN5+WIfPESMfkelW4IXtLVYFjlM7KWVHtFbJ78ntQBFMplu1RmMiRYI3xmbZ/s5HUd6eEBkEEW5E/1kiiYRK3phT905HSpfs8G0paW19HLuHnFMjYSM5xmpkiMwmg02xBwf3kt197d3HOe1AFSRIp5HuStvEkWVKuvms57scdfrUouJbqYG5kl2RAeSIo2iBPrk8D0qdYbqZBDa2NsghYAuJPvY6rnHPvU4a/1GQAxwxW8ZwWV9wz64xyB0xQBVW3d3N5dWLXERjAUXEwLDn3p1tY3Fvv1BBb2m8fLGYtxUenB6mrIgu7yTzGvh9ni5VzEMMfp3FKljLqcokvLl5LZP9XtGwsfXj9KAGrazeW19qV1IkpGEWE7cD0x79ajSKzjtRcahdGeUqFeNpQwbngYqPyNO+2Mbm6kjiQ/u987fOe5Bz26VIZ9Nub5PJSJ1gJwkaAtKcencd80ARQPptjGzyWheYOWTEJwD2UN0P1q7ZTXSW7SR2bSmQlmkZwhP1B546VHcXMt5dRW1naNth+d0lHlgEfd5qa6m1JbcuzRwSZ2xxIN/mH8aAKtoga1N1dXUnmXDb/IhbGc8YxUp05BE0lyZLOBSClvE/Rh346k1KdFtlX7TM0nnIu7erFcfQDgfSmQ2V1qEcc91eZQ5KqsYGVPQ+x/lQAqaaZEM95d3Kqp3xgy8p7k+tMSyhnkWe/ndrcf6pLl/vH15/lSJpUF3dEJJO9qFKtmZsM2e3PIqPULextZIrZpGJlOT5khcqByMA+uMUAMjbSo7k3RhVUiYqixR7sY/iOP0qU31xIftstkzwg/uVMgB+uOpNTTI8sTGG1S1t1+cl/kZiOxHpUMk2oTJFdS2sEcMPzKrSkc9j06UASG5u7a5e6nsctJhEVZRnb6Y7mk8nVkknu1aJJZMKsGzeWx90DB5Jo3anPJFdyWsKrGpZUaUjae5PHpXr3wt8JLc2cXiLWYCLhiRbQOMoq9pB/ezwQccdq0pwc5WRMpcqudB4B8Gw6BpsV9dYn1S5iBkmK7dinnYoPIHTI9RXYYp2KMV6kYqKsjlbu7jcUYp2KMVQhuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAFxRinYoxSAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAOI+JPhJdd0R7+yhd9Vs4z5AjPMg7oc9u/rxXg9xbrb6ZGIn2zwn5Gcc7u4I/Svq/FeGfE7wodL8W/2xHFJ9ivGMjS5yFnIwQf7q4xjPeuPEU/tI2py6HCQwC7sZJS/+kt1dj/q2Hb8KigQassjvKVZE8rA6g+p/L8qS8wLoRQSbIHkAnGMqST0H15zT9RcafKJYWCLIuxlC5x6MR7DiuI3BTJqkslrcLthhGGZTw7f4Dg0iGWWNdOI2sjYck9Yx6/UU65iGnW8EtqfmjG3aTzID0H4E5oa28mBdSJDXKJuc5yGHcD+lAAbprFZLM4aTpbqesg/D0plmI9DjeC4Y7JG3Rsf4if4frSm3kvIjqACmYEPAu4HZx0z+tNYJrrb0y0MAyhHB8z0Pt0oANPiex1B2uePtWXQH/lnjsfz7Uy3GzVPt7f6mdvLVP7h9T27Utwx1yzNkrBZYyPOfHCsO2O9SXEwuLE6aBtmbELd9nH3vpx+tAEV0PM1pZOtkAFmI+7uByP1xUuqOsc6+VuzOhErKeAg/iP0zxS28q2ulvZSH95EDEvHL+4HpzSaXCLaKS0vgpk2Dc7Hhlx938KAH3y+RDby2TL5ygKoPWRcdP602WOGLTBdwygPkOZz1Y9/z6U3TmDXe+dXT5SkG89Vzzz/AC9qbAqm+MEj7rRnPkoBxuHOPcDrQBNFbG6tPtDSASs4kViegHIU/wBaPJOsQF5m2KvCIvUMO/8AntUV1hL2SBZNsMjpvUDgE9vfdU1wDY3H+juq/aMAhv4CBgN9MUANVpNTEcEg2CP/AF6+/YfUcGk+0STKdMkGJWDKzEdE9fqRTpYV0uZbuPkMNs7seW9D9c0hjmtoftu/c5bdJzkeX6e+B0oARZ3srM2Ug8y5AxECOJBTbHZpHn287Fgf3gY988bfrTlWa8aPUo9yFD8sXQsncH69aiuU/tlfNjyIYAHQlSCWB5HuMUAO0+J7HUHa54+1ZdAf+WeOx/PtTIQTrjyyf8ebEGJj03gY/wAakvyNYtYrSI7GlG9j18vHY+9LPN9p0U2sYxcOvlqncEdz6DigCO8CNflULC1L4uDxtD9vfOce1QXE+yU27hhMylJiMcxjo598c8VbgaGHSWjvVzMpAlHdn7H+XNVlhKCSW4Utcwn975h3fuj6nvwKAK91PJpYgljkb7XGNsUijG5TzuH06c10Ewji0u21mAySx3C5umkxkHsxx3JwKxVRLq4huI2Z1iObfdxvXuM+uentUvhy7tpdYOnTmQadKSEG7ahbrls9T/8AWoAl0/EE2ZkXF1ukRj/COu05479qYjNLG0AzFb3L7UJ6rjqB7kjNSaxbSy3T6HM22bcXVz83yD7ufUkUSTi4sYIUXbcbti8/NGRxux+H60AP1FlsnilhYIx+RlUct6fkeaW4thDpYcsDNHiUuP42HP5Gn2YE81xPPjzB+6deygc4Pr161WsgJ7zyS5aGBiyKwwG9Mf7vrQBJp4S9spbq5ADT8sp/gxxx3FJpJM7yTTyCR4x5QOOGA53c/WodQOzVBbpzBdEfaG/uY6c9qn1VSrxG1YCTBDjGdyY5z6d6AG2qRDUiPMJjVmMZPRieo/DtUd+C2pr5IzaE/wCl46H0z/8AWqzcCE6VAsBZj8pgHckdM+3rRZTxQ6T84KMCQyE5bcT6UAT3Eolxa24V2dcknoi+tV5NM06xsy8ke7YuSd5BbH49abZaN5VukktxcRS7MNskwAM5xTY9OjvbxZZGkuLeMFR57btx9v8AHvQA+zSysYGmmaMeeQ20ZbbxwO5qpd6rC+pQpZhW8oFkIUgbjxg1eEVrDN5elwxLOwwZEHCD3/wqOS2dbyNdMdVnGTPK4zuHv6nPagCFbm4h3XF/ZXMpAzhim1PUDnmn20V8zG9aK1iLD5FkBBjX8PzpCZrm6e31G7hWGMhg8Y2Et7EntUF2YJJPJF7dTQggSgPvyPTAH60AWAZtSUSXFxHbpExMbwnO/jrg9qpXsVzcQ7Zbq48h2CqZNo3k9CMdvWlkt4bi6i+w2kNskR3tNKOCO2Rxg57U4vaSXbzahI93EgwuFLKG/i47D0oAuSWWmWtsuUV5SAoCyHLNj61UKx2w8yJ4RLGP9IlPIc+gHrVZfskjSLbaeHnnYeVG8ZAQeuT2pt0IbWSG3GmbXB+Z1Ids/Ufy9KAHLK0SCW2v5muZnUGJEAJX8sZFVhKqJKZopp1VWMSSMABzyTg+tTvez3DNcSyv5obyoih8oIemcHr7+lVIrcXV0NsYW7U/NEyEpIfX2FAFuzghEMTyWTXMk8fyiNuM+/PWnxy/Z5Fi3T2Eud0jthlx6Dr+H61JFbYh/wBGnSxm6yurDDH+6o7inxvepbHfGJrPktgeU8jd8g8nP60ANtiXujbWeo3Cxj5mkdVAYd8cdeasWlo8iOsWpyJbYwp+XLe/TpSvd22oTRxXUMkdvHghXiIBOO56ADpTE07S9Sbcoihix8ixsAze59vagCSKwml3QQ6hOLVVKsxCjJ9BxRFp890rxJfzi0A25KqNx9uOlPh077R+7iubkWaqUIMn3/px0/nSy2bC4htra8ujg/vB5nCp/j0oAha0e4m+zHUZGt0/1m7aAfYYFPuLGweeO3tQqsrBnbzDgL6de9LdWWnWkKwSKssrgrH5zDKj69hR9k0i1sMyJazPGnOCMuQKAEupdPs4XtrPakrnBIBYJ7nrTzqFvaW6/YrNpkUbQ6AABvTnmotPvrGwgd9kqeYdzbYGCj0xU6S3Us5uvshljHMJaQJtX1wehoAbayXkNu7GBYDuLyNcHqT2GO1EC6lIxu5hbAn7ok3fIPb69aCbu/23f7uOGFj+4fncR33dPoaGnvb8I32E/ZucoZQNxz39qADGpagoYi3WJW6fNiQevrikEF5qMzoboxQqCjiEfKT6DIz9akkv76Uvb21ltkUDLeaCAPT601r6bTLcA6c2Cc4WUMzHucDrQATWk1pCqpqNwW6JGqrlj+VRro0lur3kt7IZ9u5+AQSOccilg1S2iJuLsTmUjljAwCD0HFI+qQXMxNzHOLdDlU8lvm9zx09qAJNuo3sUM7/Zljxv8tt2D6Z+lQwTahqDh5LeNEjJ2bs+Wcd/XP6VPLcz6gqG0tmktD97LbC/tz2/nXX+BvCd94vuj51u1lpduwWWUOCZB/dQ/wBeRxiqjFydkJtJXZrfDnwPca+sWseIFjGnq263hjzi49GP+zn6civZ1RUUKihVAwABgCorGwttMsIbOxhWG3hXbHGgwFFWMV6dOCgrI5ZScmNxRinYoxWhI3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUAOxRilxRipGJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKyfE2hw+IvDt3ptwu4SplBuK/OOV5HuBWvijFD1Vhny1e6W+iLdafrELRXMGXnXuSf419j2NUdLQSrc/aW8yTgHcvCqRwB+GK9g+Lng9rvy/ENnbq/kLi9AJ3Og+63phefz7147qai4kSO23Bim92j/iT0+vSvMqQ5JWOmLuhNP2XF0IZWaQWy5iYjhweN2e/pikhUvqH2PeGtQzP1xuP90ew9KkvpY/s8FxZndIoJjVB94Ywfy5NEiQjSIpYiQ+4SLnq7nnB+prMojnBtp00yF1SK4BKsTgpzyB60+eVdHmYKNsVxwgUZ/ef0HSnW9ss9j500gNxkuZV6o34+nSobPOtwvLeKA8ZKxp2U/3qAFKjRdt3Lwso/wBJ285ftj9aBE1rcPrEmMSL86A/dX1HqenFJA41aX7LcfOlt8swbpI3YjH0NAka5MmjSH51Hzyf7HYD36UAOlZ7iUajGgZIHxGAv31PVs+nJ/Klvduosk1oplWAFt6nh/8AZ9896QTtp6DTIgHlCjyj/eUnn8RyafA40kyW8pZ1Y7omI5kY9R6UAJfTfaba2FmqvOWDKAfuY4J/DpTybX+zkhjDB1O2NP41br/+v2ptqn9nXX71VjjuPmznhW/uj+dRxMFv2u5owLZn/duOxPG4/XpQBLGIn0id5chxu818ZIYdSPp2o05Vm+0Gb53woYMMhRt4wffrTLh4mvRKqFoA4STHRmzx+Xek1Xb552bv9Sd+z+7kdPf+lADbJDdytb3DiW3hTEfzcyZ/iPt/hThua9Glb1EcQVwc/MV/u47ipdRxHDBLbECZc+Wo6Nxz+Q5pGhSLTVu43DTxrv8AMH8Z7j8aAI5LiSyu1sAcC4fELHnYvf8AXtRI66IwjUt5Mo2xAncRJ/QUscH2uxe8EiefIQ6OM7YyOOM0ltt1uOSaZSPKYrEjfwtj731oAWKIaO5ubgjbcYExz91/Ue1RxI0F5/asgKiY7HU9EX+9n8B+dJGf7ZLWczHbbgpMT/E3Zh+RqY3TyH+zUwJUIR2XsmPvDP4UARXKNPff2jCDJBGoUL2k56/QZz+FPvsXl0htF3+VteUq2N6ntj+KnRy/ZLV9PZSZBlIR3df73p6/lTbL/iTRPbT/ADBU3o3eQ45A+lAFeSSKPbawcl332gHRT3z+Oaq3qxWVuPsqkZbEaNyyy98/hVwWvkK5cJE07CSBxnEbY6c9+vtTEeC+Z7h4SsO7b838Ev8AeP14FAGlZeVd6GZ40I1HT8NcO8hclD94ZPU8dO1ULVx9oGs9EnOxwekaj+LP4frVWzvvsmtedNEJbe2OJlYnDP3Ix1JI4zxWtrUccV0llAALXUcMgTnyQRkg++eaAK8krM010nyW8jCMsvO4f3gO+c4q1fRR29nAI8q0bqsfv6An0NVll+y2p00KGlU7Ilbq6f3v5/lU9nFtvGhnYu8CKI89Mev19aAEt0t30aQzMSj7vMduDnPr+lR6Q7yGaXUBtuAu3DDH7vscfnTJNn9qH73leeufTdt/l/Wl1jzPPjNjkydJ9v8Azz9/1oAWxVV1IbmZkbcbYkYwP4vw6Ypz2jXuoedZy+VGrb2k27tzjgY9sU+9SKayggs2Ku2DAU7Ad+e1RPZS6daKBqM4JOFRQvzMeeMigBby1nuLiK1lu3l3ctsXYUHqcdQelMvtOtrSBUilnVmOB+/b5V7tjPalWxsra1e41KUTzHl33/oMVXtn0qC3M8/zyhiyKd2QOy+maAEuv7KisljtLzEv3VZJSMn1bFMuV0uONVtb5hLIwywuDj3J59KsQ3axO8gsXlNyw2lFG3OOgzzTYbmaGBrddMc3ZG+RiF7nGetACmXSbYeXazRSNKcl5X3qnqee/wDOoIJ7K1SaWzvI7cHttDO/4Hp9KnUNcaeywQLbxo3717gcyHv0/wA+lMe7+xtHdXlmv3CipEBgDPBOeaAKztaW1jGweSeeUgOysXjYk8j0zipmu4Ny2QMFnFnPmBst8vZxVaW5afzo5/s6M4DYw3y4Odgx3/xqPzEcxtNMqKQWPkoSwI+6pyKAJjLJfPG0j3DyYZVMMe0KgP3hg8/SmOsAV5ooLwl8+RlmG445bOeuP5VFcXDQKA89wyzn52VVAK+g7g1IBGWaKJzBGcP5wOVxnoM84/XNAFOPbJH5XnxyJKpJ859pR/r/AJzWmNMljt1uJJnYqNsUY+VpvYkc/T2qZWCbA8Cum5mTaOuP43/ngVGv2Rb2MwXzouxi8iqTls9ORQBMRDqCqLu2/ex8LbwfejPqx6ipnklsLqH+0CJYsARIpywb0x/F9aghmjttSneyhMcTxAGZskdfvetaNpLZJG8r3XnuvLSyDBx+X8qAIorqC9uFF1eRH5uLYEcH39fpUn2WC/YiKFI7Yf8ALRFCl/oR296VI/7QbLLFHATnav32Hv7VFPp1mHFta24MhHJ3tiMevWgBk2lwKwtrN7jzMDP75sRj16/kKfLpVnaR7nkuC7YHyzNl2/OnSaZp9nbBpIi7cKDuO5z2HWlt9Ettpe5iyzHcE3nCfTmgB1vZ29nZtJf7Dk5JmO7Z7ZNU4rjS5r55f3BRBtijVRuY9+O/tT5LKxuLjyYFVFjYF5DIeo7DJq9Le6fbSYkeNWHOQmcfiBQBSvLq4vZFsrW1ZVZdzrP8mVB6Cn3izrbD7XerBv6QhRyR/CG6mq8OpbtUuFtip81lKSSA7cY6CtOC3tYA0rOskmMvIxzn3xQBR+0XMpRLyxljiUBgkC7g3semMelOl1S0uZPswuUhhUYc7trH/ZHp9atfv7/0itWP/A3H+B/OnTmOMrBbwxvKw4BHCj1NADi0On26pECzNwi5yzn696dbW7K5nuDunYc+iD0H+PeqcejW0UTS3IHmZLbgxxH9Kz7kXUir5GoTyWzusbOygbs8ccdqANRpUupJJZ2C2kB4Oflc9yT7dMVHdaiJ0EdijzxtxJJCu4KPT601razstqtuuLoD5B3Y/TpWp4K0LU/Ed+NMtLKSCT79zdPjYg9eO/Ye9NJt2QbF7wPof/CV69HpKwXVvYwR7rmUpgqP4VznjdzzX0PY2NtptlFaWUSwwRLtVFGP8mqfh7w7ZeGtJjsdPThRmSU/elbux+v5Vq4r0aVPkXmc0pczExRilxRitSBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigB2KMUuKMUhiYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFAENzaw3trLbXUaywyqUkjYZDKeoNfPHjHw9H4R8VXVoqCO0uF862LMCWQYBye2CcAelfRuK5T4heE4vE/hmcRQRtqMCF7WRztw3oT3Xrx0rGrDnj5lwlZnzjp2yC5E0itGLlcRKTwgHO3Hb1zSR7G1flW+yucx84TeOpx6k9DUt641CGK3hGWcElhwUA/lkjFIZo5dKFtEuJcGJE67WHGc+g9a886CC8z/awSLm3eRRdbumccD6YqTVpZLS5ils+ZJQI5MDO1PX2+tLB5K6HMl0hVkGJl3ZbPbJpdLD7LpNQI84kk/wC5jt7UAJfGLSLVb21GSWAfB/1gPc+p96UWrQ28d6rKZwd8jE4Lr/dJ/L8qi00Ge5aG7GYUGLVWHDr6+/bmkiYy6w+nEnyYSJADzkY+6fbmgCRYTdqurZ2yqpMa9QF9D6nrzSxM2tJ56MUiTBiGf4x1yO+DRIWt777BG6hLklhzzGMdAPTim3DjSLhIbbgXCbI17Iw6H8c80AOlf+1ljtpIsYyzkjoQccehPX6Us00s+ni1KKbsnaVK8Ajv/wDXp4iOl7ZlyyykefuOcHH3s+nakX7Qrx37qRvGJUxyqdh+fOaACOeK2tHtZ490oIV1/wCehboc+9OsytpvguQFlZS5fP3l/wDrdKinMkkj36BfJjKlSR95R94+/tT7hvt82bdFYW+GbfxuyM7fpg0AM0wL50ayoyhY90Af+EZPH1/pTIVVtU27/wDRBIxVWH3pM88+x6VJeTrqFvClspJkUvleGQD+WcYpZGhbRo9i7X3qFGc7Ze2fx60AR3YWO8Fkr7LWYZlGMhTnpn+HPXmjUZm06fdbHIuNqlR/Cc/eP4cU6yVG0aWO/IEgJ8/Jwc54zS6eqzxyPf5+0GPDq67cIOhA/rQAl6I9GVbyJSV+7KoPMhPQk0jQ/Y1bVy26Vl3SDHBX0HoelN0wteXc8d1+8igx5IbkFT0J9enWlVTJcPpMjhogpZmByxGfun060AOxNeINQjJbY2YFzwU7kj160k8f9rulzbAgW+fL3cbn9CO2CKR5ns5xpVseWUGIn+Fc8j8s81KxOjskUCNJDMTt3HO1z6n3oAiuX/tiBLaHZu27ndlyFYHBHsagvbuOEJtjwZZPKmjJ4D44b69KtW9sdIcuTmGUFpT6Pnj6DtTDGVxe3kYMc2A0ZXBjycAj1PvQBSmxYQu10oaSJv3oj4L5+6+fXrWx4a+zyWNxYahCsYB80XQ+XY/YFjwWwfyrISWSeacnaUsnw+4Z8xPfPUgCmXUbzSLZROzxJ+/bY5JI7ZTpkZwPagCzaJLeeZqE/wAl1bMUAK4G0c8j15pzySapEb+3Z40hX5Nhwx/vL/Krer6lFe6daX2m7BcS4S9jQ7vLU8ZI7H3qCVxopjtLX7s4IiB52v8A4GgCxcfZ10Vgq5Rl4RTyT6fWksWjihuRccNvJkz/ABcDkD07VFa2aWGooJNzCVcqWY7VfuAPU8mnXVr/AGjfyJC/lhUUPIBuyQc7fb1oAjstMuZJDNLO0cOT5Srw6L2we30pq21vdTK91du9shO1J5Ad7DjOPzFPljubmQpJfk2sRzLIqBOR2BH61Tt4p7OzybKKYO58vzZCWPPGAR+NADkFjPqYFpYbxGMqoQpl+4JPtzVnzbzUZGfy0giibAMjBlDDrkd/Y1FKLvTbCJJb1InmODlBgeuW+lVjBZu629o11cIOZpIXLA+2M96AHm7u2hOo/bLUSIjII9vJGfrTJniRgpu7uS4ZcSyoCVC/lyKceZhOYLW2t1UxCRsEE9c4I5PGKjgkkNqHkMjRzAl0WPZuGOiEdvagBj3EPkFRPehAR5CEH5QP4+nI9qbcSIWc25leRlBYzRMxmGP0FNWFm8sxLdq+zdCpUsG/2cE9B+tSreCXzi2oeXlNrgxAOD/dUZ6UAQQ3MltFEYWUeU5Mf+jt+8yME5+n8qlldriQJZNO+SHI3bAZG6MFPOM1LK00dwiXMyt8gQBVAVWznbnscfn0pFsjPcOwinjnAKrtJB56Fh/CPagCAxPcrNJLchYyPnE/zHeOOPX6ipo9Fnlbyk+zrIx3uyx/6r0AOf0qeJIo40e6CCY/I078xD/d7E8fzq3b2mPOk0+Vo4WXLSOxYSfTPQe9ADIluoBLb2sCSzZHm3CELuH4/wAVSPqaWsP2WG3eOYHDAIXCZ5ySOtMh1Blto40MdtHzuuVO9AewyepNXYrm1trdRblrlpMnMY3Fvf6UAOjntLSA+VIsrsckKwZnb3xTDY/b5hLqMChUGEiJ3Y9ST3pqaXCyPNcosUjDnyvl2DrwR/Oq8dmlw5Gm3E2wqQ05kLj6AHv/ACoAWSzieRo9Jh8hgcNcRHbt9vcfSp/7MjtkeQ3t0mTuc+Z1P5U14bmyt1AvwB0RVgXLH/GmR2Op3Kq19dojI2VVYwQfrQARaY92C9xc3QiyGjRpORjueKLi1cyfZ7a9umlI5JkyEHvx+lOl/tAXCwQXwkkyC/7kYUe9Ph0+7t0ITUOpySYQSfxoAdHomnRQhWto32jl3HJ9zSQwRzr5NtGIrJSdwUY8w/4fzqBYb6/Dr9u/0fjDiIDcc9vapZBd2pjRbsSMeEhEIGf8B70AXLr7PHaMs6gxY27MZ3ewFZ8WhwyBndWtt+P3cJwAByM+po26obozzW0D7R8i+acKPy5PvTpdVE8SeWksML/fndcKo9j+lADHbUUuvI06ZZo1I3vMMlfx7/SpI7k6cCbu3dPMbBlDbzI30FTJdW0Vqi2JWYtkIFOdx7kn+Zp8MEjuLi+C+YB8qA5VP8T70AMRXvsS3ShIF5WMMGDH1J9KbeMdQU29mUyMMZiMqp7Y9T/Kq5tmnaWSwUmFsfK0hCvz29B9OtdB4W0S/wDEupjS9Ns2tmj2tcSlMRwqe49T1wO9NJt2QbEXhHwzqeu6gdNtAGlzunvWGVVfU+/bGc96+hvD3h2x8NaUtjp0eFzukkblpW7sx7ml8O+HbHwzpKWOnR4A5kkP3pG7knv/AErVxXfTpqC8znlLmExRilxRitiBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoAdijFLijFIYmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMZ60uKMUAeKfFTwn/Y2qN4hsreOPTplAufLH+rkz98+x4GBXlyfu7sajJEMSP5a47A9GH1719W63pFvrmi3On3caSJMhAEi5Ab+E49jg/hXzP4i0q90PUpPD19892gXe45DxH+PPYkc4rirQs7o2hK6sZNwwm1CK8SMPbRnY7Hof9rjrjpTdVVri4H2P7yKrSsP4kz0/DrUlrKunW5sCC0ivsjBOPMzzS2P/EqR7acJkL5gcDbvPp7muc0DVnMlvE+mnN0f9Vt67e/X8KS48pNDNxb482NdysOu/v8AXvTdNjMF60t1wJ/nh3D7meo9j0+tJCY/7SjkVWFozFYwTkeZnqB270APtoVutKa4lfZJMfNY/wBwjt9OKW1QatDJNckb/mjTb0QeozzzUN9xqjJ0s2CtMV7Pnj8elTai5tr1Wt5NrTlVlAGdq+uf4fxoAitW/tmMQzDbHbvhhnlyOB+FTCW4kk+wEk7WId+N2zHB/E8UXoi01YbmAcj92FAzvB5/Pvmg232a3a9hdTcOwZ2BwrDuP/retAC7praF7EAmRsiAjGAv/wBakSU6U0scoLqUEiBR+BH580qxTXcf2tW/erJlAD/AD09ie9DpLqmZom8pFUiPPPz56/hyKAHQk2E4M4XbcksSv8BxnH0qFONWF48QW3lG1Wb+E9jj3p7TNqcjWm0x+VgykjPzDoAfyNK92bq2ayYYuZN0ZHTgcFvpQBXu/m1QTxfLbxSKbg9m44P07VNqfN1GbbeTjE5jxny/fNJFIltpL21zEhkjGDEoxv8ATHrRpw+wx3EN/JlnYvub+MEfz9qAG6q6xafE+mHEwXMRXrsHX9KmkhjTToZ0ZY3jxJk9GOOQe/eoNMV479vtIO1wTag/wp3Ht2ptn8+tE/8ALmQWhU9A4ODj3zmgCVIRe6a15KcTOu7I/gA52j24/Wksx/bUZupvlAA8tR1jYdTROfK1P7PHLiGdi02B9046bugzjpSag32C8jS1Gz7Snlkj/lnjgH6DNACxh9XBgul2C3f5xn757fhinrJPKI7BzmRTiZxj7vYj69KS5UaTbpc2oXGR5oBAD+/1pTamyxfBl8wtvn52hwR0/DrQBTvZXsIZBGu6aGQFSBwyN/D78ClWP7OBvlzx9ojYjgeqnHPU1alWadW1BCQFw0SDklR1x/vVSYST3bRoxhgLqYCv8MhGcfzoAm8O3dvpN95t9HHHaagpWQnJWMDnHrnNSRWn2nUrlJwwijIeyb+6h6EevGOtUL1Bd3H2ZQF3SEzb1zsfHZunPArWW9fWdGj0qyULrFs5WIDjbGOvzdOlAFRN3iC3aGRjELd8M69Sw6fpVIlYo/sMt/KGSTbIuPlwOc5AzV6WZdOtobiyjJZ38uWNR99ucn65HWo2a4tlcG0SO6uvvzNICAPp2FADJP7HkmEaHyoQQzPlvn9h/WoXl09ZBObSV4R8qorH5T6nJ/lUhe5ezMSXls8dqQYwF+Z2XtjNQm9llvla4uZACMMY4WVl/wBgfXrQAH7D50bR3JjYZkLqCw6fdXP9ahSYSyMkbzXDzAZC7VAA/L5h+VNlnkFsUtWkCocDzjjygeNoz39fY0qQxpZLICmYSU8qRhIHY+gHSgB800MDFo4Y4GtmBCSsxaQ49siqrzPdPALhY4M/OZiThh7gdKakYKvDFOrLIMkNGVVX9MnoevNJbxI8BRC6eaNhIbOWHPI64oAsyXSxwSLZeciAMJHXBBz0AzztqJw0Vz5jSK5kiGYpBy3T5ePzq/DbmX/R96+aItrMDkqMdd/THtUltt8wQqiRvDytxLGQmPRQen50AV/stytrBKeJIycoxyzDuBjjGO55p06R3CwSWhbDSAeWCQign+I9cn2q3Dphjjkeyc2scg+aWds7xnpjjH41ILa/vYPLEkX2eFgU8tChYjsCTx9aAHXlqjReTeSl5GH7u2iHAPqCe/1p1tNdXEiQ6nALSEfcUHiQ+h/nU9ve2ltExxMZC2H3oS7H8uR2zT5LWXU1xeq0MIxiJWyWPufT2oAWSdLnNtZBTz877eE/+vUcmm21vCZpJWE6jif+Ifh0/SmSGW1nSPTJfOyfmhY5Cgdgf4fxot5Ea6zqTOk6ndsc/u19MHpnFAEaQalcRqC2Y1bJW54L/wDfPap5NQnsdsc9kXLHAMGNpz9eatT38MCryZC/3RGN2fy6D3qGF4RMZryeLz+QF3j92PT6+tAFaG5uvOae4024eTooBXCD25p0urXL74bfT5xMBnkrwPzqS/1eKHbFbt5kr94xvCD1OKjh1WxtIjxcDJyztC2WPqTigAhvJLWLH9m3OTyzsVyx9etRyX9xfBNlhcfZ+d2CuWPp16VP5lvfMWvZYhD/AAwu4592H9O1TyXIYLBYFWcj7wOVQf57UAV31cW0J820lgIACK2Dn8qfY3No0hJuFkuH5ZiCAB6DParEcEVmrzSSM7Y5kkOTj0qIQf2h890n7j+CJh19z/nigBPMGpSFI3At1PzEHmT2+lSXFysWIIIDO2OUUDCj1NU5rO23CLSgIZz1lhONo9z/AEpZoLjTkZrW5U+YckSoXZ2/CgCRtNt0jM90wWYZPmrxs+gqu0d08aPcxyXUAztjBAcnsx6CkWS5ixca1E+1Tk7G3ID2O0c/jXe+DPBt34vu0kdJ7TTYyDPJJGY3cdlTPqOd3IqoxcnZCbsReB/B914xnVmjks9MiI86QgZY/wDPNf6n0PBzXuejaBpnh6y+y6PaJbQ7ixVSSSfqcmrVhp9rpdhDZWEKwW8K7Y40GAoqxiu6nTUEYSk2JijFLijFakiYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAOxRinYoxSAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuK83+LPhNtQ09dfsvLSbTo2adCAvmx45JbuVA4HvXpWKa6LIhR1DKwwVIyCKmSUlZjWjufIE0Ml041Ly2JhIaBCMFl7gii6Rdbw0Lfu7VtwI53sO3096634g+F7jwjrX2C1kaaK/3zQTY/1QLchu3U8Y7Vye9NDZ4wn7qUho/dzxj6d685pp2Z0J3G38j6tp629pgXOQzgH/VkdiexqWWWFtOS3Ef74kRhPulXx1z2+tMjiGj3TTzuPLuCTM56I3YD86bHG0OpPqkwxbyjGD1T/aP+e9IZLbFE0eWKfHmRZSQnnL9ue/amaT8kMw1D/XrGvmlumzHGf60lw6yXwvFjHlQPsfHVye/pjmjVQ011G1udyRIxnC919Px5oAXTEDXEiTs7bMmASDGVPcD+tKsaG4GnmQfZ0OVHckc7M+o60am3m2sC2W/zwA8apjIX3z2qaVbb7BHLCwQx8xsOu70/HpQBBMXguZLWGRUjldSeeV3fe57E9qmmD2FwotxmOYbApP8AH2+nGaYsUc+nTXEjgTn5mdv+WbL0H4UtogvvOa5O9gAoUnlBj+vWgBGjfSIxcbjMuzY47k54PucnFMaB4ZotUlBMxG2RSMBFP+FPt4pL7EdxJn7NlCR/GSOv05pqGWSZdMYZijX55QfvL2H496AEdnu3Gp26h1hBWNNuTIM8/SmX6nWGT7KQyW5Em5TkMc8r9cU+Ob+zf+JcijLvtg3dweST7DpToW/sfNvI+6MrmJmH3n/u8UAN1F/7TtxDpzf6QDktnBj9QT2pZpEm0WOO3G2WQ+XGcYw46n26HmmWiDSppbq8+RLrDMT0jb0/WkijaHVhfSDENwdiIf4T/e9O360ASQJC2mzrdtiUSfvmB4MnGMfpT7CP7ZHP9u3NO2UYMNpCduO2ar3o36oZx89ogVZVX+Js8flwak1QiS7iMBcmP/XbOgQ+v4elABYlL25KzHckSlI1dcbxn72PbpSIDNdPp9w6m2V/k5yXxztJ9R1qXUGSCOCazQtKfkQJ3U9j7U2SKNNIhktpVMkfMUjdz3/PpQAhZopZNNicF5csp3YKKevHbHao9QhksraSOIGTzsCLHVXx2Hvyc1Yht1urOSfcPtTdXP8AyzYdvwpscB1SIyyyFMIY1x1znkn8R+VAFSIeRDNPPucsfLuV67X7Mo79RRp15/YfmajJGWukIQM3ysq+hXvu9e2KjuPMuL2RplxbxqI5gnR2zwR9Mg0zUplhdLZmzJAnUjKyqegPfJoAfPqC32vvdWJdYZEDiKOMPsPGfl7c55qo+5WM4Q+VO5WOS5lIyuOhB/GnQyBZFEErXLSDdPFGAqhR2ycH0qNLqO3i24QfaDgpHkvEPQbuKAHJJm6iNmyO8fCJFCGIH8RPrjsaD++83zJZyygtC7LsGc8sxB7HiqjymINh33RsA0TjBZR05H60JtaKRYYdzSsFjEhIZc8nHbH1oAe7/u/tCIrIR8w80yGMngsQaTbJNIExGPKX9yD+7d89Dx1NTLbxyrcGVnWdHyqjG9sDv/DinqIZhBOYoZpGIViGYAE929/pQBUWeWRZHkhUIBtmDHAc+3o1XUtyI7QxNHMsZ+cqNqqfQuOTVu4eEGKf5ZpIZAzpGp2oo479ecVavbZpLN2vLhYUAz5MI+Vu4zxmgCrdKQubUCedXBeG3TCqO6tjr+NWi1tcrDNfsrS9YbaNsjjjGO9S2UtzdWqC2tltVKgM7df+A/8A16gEtvpd4yQD7Q0jDKAfMreuTxigB8drNAqvdRFoVYlo/ML49+ev07Va+1POAmlrG0Q4MuflX6euPSlNs0373U2TavKohIUe/wBaoPeyW0wOlwh7aVwC7jCKx6470AW5rW2sofNe4aOTdlZZHz83pz29qjjur26kSKcCzDrlT94v6jnocc1ZW2t7VTc3TB3x80jc/kKhuJZ7+FltLcFFGVkk4Dem3HP50AW8WunQ7mKRLwC7d/qe9VpZZb8BIbcCLvJOvT3APWm6fDC8KT3Unm3H3XaQ9D3GOnFSS6h5oMdjEZuCC+MKh9+/5UAUrDSo7hppppJD8+EeNigZfYDtV27isrCxeWSCJti8GQAlj9fWqFkj/wBlQyXF8beMLjZGAcjPfjP5VJp8Vl5092MLCPlRXYnGOpwfWgC3Z29vZ27XTBFaRQ7sFAAHpT443vJBNcKViU5jjPf3P+FVYdJt7mRp5oSkTAhYi559zzTTYrJOYtNd7dBkSyKc7v8AZGaALNzHA8xhgt4XnblmKA7B6n3qKbTbK1t0z5qnoBC5UuTz0HU1GIbnR7fZbNFMpPymUnexPbimw3V0rm4vNOnaTHGCu1B7c0AJFpEssgnjnmgQH5Y5SZM+5B6GpCL+eR44rsSxqCHPlhcn0BH+RSS6jdXcKfZ7C4WN/vMNuce3NOj1Qxq0MNhLH5Y5LY2r7nBoAie7vbACOPToWdhnZFJliPU8frUttdgyi41CKaFzxukTEcX4/wBam0+4s2m2LcebPJyzbGJ/l07V7T8PPhz9kCa14jhDXTr+4tHGRAD3b1Y/iOlXCDm7ITaRheAfh6+tzR6trcZXTUYNbwn/AJeD2Y/7HTHUEGvZ0RY0VEUKqjCqBgAelKiLGgRFCqowFAwAKdiu6EVBWRg22xuKMU7FGKskbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAXFGKdijFSMbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAOd8beG4/FHha6sSI0uAu+3mdN3lOP4h74yPxr5jksZb6aT7bG0Ji+VYn+8jg/eI7fSvr7FeJfG/w9Lp9xD4i0+BnS4At7pY48LGc8SsR1JJA59KwrRuuZGkH0PJ1f8Atwy2dwNqQNiUr1duxHoKc7vc2jaXIuJyu0nHCpng+/GKLsDQ7X7XD+8bCpIDxvPrUhgkiMWoKWkkYAy45+Q84A/KuQ1GJP8AYLeSyZd7JgRJ1LIeMn1706zZdIjNrclRuLOjIOG9QBUbwtdv/a0Pysi/ugf7ueSffGeKdIx1dlkttvlw7XRiv3267c9qADTw1vdn7UiqZVLRkDAQZ+79T1psXlm+iudreRLIzIxPQ4xk+3bFPnnOrQLFZnawb962M7MdQD60rzJcafDb+UFlkbb5YOAjDnn+dACT+Ut2Y0LC2Y/vwv3Qx/x5zTdQItpj9nk8oSQ5baOgyBu9/SpIGhjsbiC6BBLsHXPzPnuB706xRArx3a/vivIcdU7Y/TPvQA29VbCKK5t8J5Y2lVHLj/62c00QpBZx30L7nXMnI4fdyQB79qbpm2a8cs7Onl5hRxnCZxnPr1pIdj6gLJnZ4lcyIQOCRztz2xQA5raS7jN/gGdSHgQsDsx1BP60Rv8A2xmeF2VbckR7eCWx1+lJdbob82UbhFvBuB3Y2Y4+Ud80Xkv9isn2ZQVuX2lem1v73/1qAGSsdbi+xkgGMfvyBja/bHqM5qSWYXls+lKNtxsCvnoo/ve/0okSPRJPtZJMUh/fkDJZuxA7d6b5TWqjVZMeYxzMRzmPtgevSgB9vIttpb2ch/eRAxD1f3A9Oabpf/Euhkivf9bHGGaT1XHQeuKQxNd3CaxHjbGvyIf4l9T6HrxS3Uramsc1kN8Ual2+Xlz/AHR/WgBdMjWC4k85Sok5g3nPynkjPuecU23KHVFTaywRuRb85BbHOPbFPvDHqMUFvFw5HmAq2NmOD9TnjFE06yaUgSJRcg7UiU4Kt/8Aq5oAZNhNRaMSYs5GAkVR/Ge2e+e9TXgNpdIbdljEy7GXsD2Y+wAxTU8ldMlhmJSbOXGMnee6j69KdYIJTci4+aQbVYOM7Rj/ACaAI7qBdMtxNbjzCI/LMZ5Lj2/E1jESzQpPHHLHuO0jzQMOOmB2AqzdTXMMUbb08mJtkMzN8zZ4LAd+D+lV3yt46o4mZEHlF22bs+i/xZ/WgCtHAFtxueOSSZiWxGXeMA8nIqeZDcWr3MjqxyuzzXDttz0wOQaWCMKpdo7hicpCI08vex5IJHoc1Okcwe2082kG4NhpVOSSOeTjqOtACzQuNr2yDEy+U8soxtHQ7VPIApbg5vra3mL3iYxtU7Yy3brx0qbUAhkjdZjd3ayhCQdqAZ+6QOBmrF/bP/Z+66littpzFEp2qrf73fvQBSlAs32MouYnHMNsh8sH1brmo0/s5poodsssSktKBE2Eb0AxwDWxaie6gBtRHa2zDKsgBLj3Hb61H5kOl6t5cKtKZoxuRBllx3985oAbqRu5dLlKxpbwKmCrcsw9sdKmAs7Nkdy9zcdFJ+dl46cdBT5Ibu+hdbrbDCRzGvJcfXsar6ZeW8dhF5KefclcP5YywP8AtGgBLVLmS8mtnLWkWfM2hsuxPXDelWHlh8trK0tjPgfMOi+5z0PNVr63nleC4vjs/eCMRRORjdxncOfwq4L2JE8nT089l4G37qn/AGj2oArWcbSeYupXBP2d9u1mwrDsSD796syXf2tXgtIDKD8rM4wo9+fvD6VVlgK6nBPf7WMwKmPPyoAM/wDAvxq39v8AMUJpkQmx0bpH9M0AVrGERSyLfTNI9ucje2E+qj26VZ+2T3YIsIiq9PNlGAD/ALvU1SuYTBqEF1qk4aIjYONoUnnB9RV03ss/y6fDvX/no/C49VPegDPgtrWKa4h1MpNIh8znp83Pyr1q3JJc3tqY7FDbxY4lYckegXqKgaODTdUV7j981wudzDJDD+79c9Kubbi/yWZ7eA8bMYdh9f4aAKNl9lhjh8m3lmudvyB+qe27GB9KkuNKhlf7dqDvHMOQI2xtx0Huab5y6deC101lnklY74pJOVOOpPWr8NlulFxdsXm/u7vlX8OnHrQBRWeefyhcPJFbHgTL8pY9sg9Bj1q/JKlnGkFtFvcj5I1OOPr2qC7v98Mgt4RKij5nkOI8fX1zVXTtFD2qzXktx57jnEhXaPSgC9H5aTedfTRrPj5ULgeWD2/+vVWbUILo5dy1sDjYg3NIfcDtUNwmnrJHCzoER9zTTNuJIP3QT19/SlbUrJbgx2LWsK/debIBH0HegCWfW4nQR2izZztZvJb5PwrW8NWU+u3v9n6BYzXc6jfIrDy+O5LMMAn9a3PBngXUPEtxCkME1rpbDzJL6ReJV/2D/ET0z2r3Xw34U0rwnYNaaPAyKzbmeRy7t9WPJA7VtCm5avYiUrGL4E8BW/ha2N1dhZ9UmXEkuP8AVqf4F9umfUjNdjinYoxXWkkrIxbuNxRinYoxTAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBcUYp2KMUgG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKr6hYxalp1xZzjMc8bIcgHGRjPPcVaxRigD5M1fw9c6T4lutI1OCRIrPKQGXrPGeA5/AZ4rKilefUH0yRiYIxnf3cf3f8APpX0V8WPCDa/4fOp2TsuoaZG8kK7S4kUjLLtHJJwMV883ES22kJJHkywt5iqepfuMfieK4px5Wbxd0BaS0c6eq/LMSITn5UXHI9c9aYGGiMLeM7lkT9yp7uOufqcU+3gF5bveucTnLIc4aLj7v8An1pkMT6xD9omKrJECke3kK/dvz6VmUPQ/wBkHzrhiyXLAuSOUbHt2pIxNBe/bZx+7mbBDD/VL26d80+N31CTyH5iiXEuGzlu2fUd6jWSa5hfTQziaM4klPGV9R9elABcnzLt7lIw0MbJubs2Op/4DUl6Vup1a3Qy+Wv70qeqnnb+PBpDKbe3lsWQOyqFiyvDg9Afp3NEEq6b5wvBtBAYNjO7jBGfrwPagA1CSKa1h+yHDyA7HT+EAc/pkUSCL+x7doid67WjB+8zeh+veksla0vv36pHHOv7kd0xztz6d6ZDsXUPtjKyQlzGgB4DHjOO+aAJbeKO80uR5CyyyZ3s2NykH9KZZRrqkbT3JXcVCbFz8mDkHnvTZyn9pEKrPbSuBM2cKGxx+GP1p+pt5F1G0LAGZfLk+UttT1wOn1oAjtXOrTTW16N8VscY/wCenoT+XahJGuJ/7KlO4xHMpPR07L+op2of8S2zSbTvmlACBfvb19SB1xSyxpbWa6jGd0iYeVs/M47rn/PSgBFnazuv7MjAzJzD/dRPT69afHINGIt5C0qyksjY5Lenp9KYkJu7JtRB2yt+8jY9UUfw5/P86WJm1pfPRikSYaIf7Y65HfBoAW0WWwuS10dwuAWLkfdPZR+FMhYRXK6j5YSK4OHz/AOxPuTxTmkfWYvIUPEI2xP2z7fj1pXla6tY7KaNTM52SArwuOc//X9aAGznzNRa58sNax43sP4iO/8AwGn3saX8wjt5fK4HmyqcfKecfXoaYbtLWxms5yglT5I0boynhc/1qKaLT7W2Mkzm6kkx+5DhwWx2A9KAK00sUGqRx+d9oaEcSSL8oP8AdIH9KScafeynz5wrLy1woPH+yvHQe9WIr6Gx0tLazjkNwxA5hZdxzz19qkmN08aWFvaeS7tudmkDAjvux60AZ8m+WwlZ4J5kXi3mbA2j6CrV/G0VhGHnVTuUJBBzv555POaddq/2uGC8uwPJHmAQDHA4xjk55pD5P9oWr6XZYILbmI2np3B7UAWLpbk6c7xWsUEca7gsmd4I6HjiliaBUBCve3bIN+OoBHX0pupxTJbp9rvSGlkVGWNtqlSeeDViG6EVv5em2bSRxjBJOzB/HrQBBYRXMlu1tJOsEds3lkx9X9jntzTHmtrfVbddPiaYorhkTr27mn6fZrcWjXd/NlLht7RZwnpyPwpZ7lF1e0SwiE3lxsAqEAY46HpQBaa2uLoZvJRFFjmKPow9ye/0qrY3QtlktLWAzPC/lgoB07En8atiymueb+Xcv/PJOFI9G9aq2MqWcl3BbRb388hIlOMDA/KgB2oWk8tjPLeSg7UJEUf3QQODnrmpYr6KKCOO2iM02xSyRjpx1Jp4tLi6yb2Xah6RR8cejetVNMvI7exSCJGkl3OFRRx948E9vxoAfe2c9xbNNduivHhkVScLg5P4kcVLFqaTwp/Z8BkLDnAwIyfX/wCtTmtZrxW/tAqsBGRCO31Peq1hfloGtbZS8kbFEbadoUcAk9DQAuo27JYy3d2ytcRjMePup9PX8anjup7qMCxiVI8cSv8AdYf7OP60PYCSFn1KUTHGSp4jB9QO1VtMnml02K2tY9uwbHkbjYfTHXpQAt/BHaWglnn82VJFdnf7xA7ACrKi41FFaZfJtmGdmfnYeh9vpSTWVlBE5uXLyOhXzHOXI9B61BYSXl/ZphlhgGUJA+ZgDjj0oAdfm0htDBAMyqAyrHy3Bz1/CnwQSahAlxfS/u3UN5KHCj0Oeuah1KS3sLBobMKru4BWP6jOfTNWEs5Xj/0uURQKPlhj4AX0b1oArahdK0sVhaRNMB80qJjG30/lS6h9qis2muLowADaI4QCDnjnPNRWjNLfyjTrcKkQ8qN+ioDycr1PNaNl4Y1XX9fsbK0gmvJmkIlLIRDEcdcngY64zmjcDMtxFDDFDawM3mlVkugpZQe7Y68fSvXfBHwajvbW31DxDuhgD7ksQo/fJ6ueoz1GD0rvfB3w20zwpIt6We81ExhWmlOVQkfNsH8IPpzXY4rqhSS1kZSn2IoYI7eFIoEWONBhVUYAFPxTsUYrczG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAHYoxS4oxSGJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJivnP4l+CE8L+Jraa081tLumaZNy8RTk/d3d85Y4r6NxWF4w8LWfi3QJLG83K6/vIJU+9FIBww7Z+vrUTjzIqLsz5Pu2MWqPaqTHDPiSST+6c/1xipr1jp91CLQpGs52MnoexAq1c6ZLp8F1Z6pC0d7CT5yycMHHI/p04qnpX+mRSSX/APrmRQ6N2Xs3tmuI2HTRR6PsuEYBMFXUnG4k5z7n2okhmtraO9YM86HdKqnO4HjH0HXFN09TeyOlzIJVtmxHgcH0PPp0og/eXK6eJQ8ducvyfmHYH3zQA7yZZmOqRlvM25ijHIK/4mi4EupqGhVSka7gHHBk/qOooDzW149hF8qykukp/hz1H4dqkLNpkgiQM8Ui/J67/QfXk0AMuJhqQ+y23yzIu5ywwY/b8f5Uj3An02O3CgzM3lEKMbSOCwHtRGJNLJuLo7kkT96yj+P1P14FNUyRXMWoscRz4UxAdM9D/jQBJbSQW1i9pInzRtsKfe3k88evrUejxNFDcw35/e5OSx52Y9fSmXSme7GogHyrVxgL/wAtB3P1zRqoa/KGzyRbuDIwPX1X8OtAC6UWe+In4SIFbXtuTv8AXjFNt/m1I2zf8eAYmI9nfuM9+/FTaq5kt4n0w7rr/lns6he9JP5X9ix/Zcedn9zj/np3/rQBFcsY9WXTYiUinUPx/CQeQPbjpU9039nTn7OUX7QNkcfQK3YgfjzRbIkmku1wM3KgmUnqHH+RUelodTsZJrokSyL5Z4+7juPegCSZTpflXWHcY2zAc9ed39KPImtS+ocvLIRvjzkBfQH260lo/wBvn2M6vFbjYQM/M3Y/lVd5pFB0wxyN5bAqV+9IoOeO2fr2oAcL3T7maS7uAkrRllWNFDHaP4vcfyogZTeSXEWnOGwPs5MW1cYyST/WnS3Mt3L9mt9PeIdJCQvGexx29adP/aEs8dji3Vdu5tpbBUcYNACWrX95/pcixRI4ykm7d5a/7v8AWmwwGRZbvUb0pFI23IGzcB90gii5s5DcQ2bX8jxtzKmFG1e368Ul+umWaeTCFEj4QjLNtU9SO3FADdOltY555YIZLkM48twu9lwMcntU1uL691KedWS1MY8o4G/JHPf60572a2sj9lsjGI1GHkAAcdOMd6fbabdeWWnuzGznMgiAw/uc9/pQBBeW9vb31ut2zTCTLtuOdzDoAO2fSrFzqM6WrSW9mREi4bzfkI+g71BZy2NtcTylgkRbYitliCvU96W8vLi9lis4bV13nc3m42sn4c46UAWbTSUjij8+Rpggwqnhce46Gq891aw6vbLbLv8ALWQNHAuSDx2FWxpxn+a/kMnpGpwqH2I5/OobcQWuq3Z+VESNMH8DmgCby7y8BE7C3iPBRDlmH17Gqtu0Gk381vhpGkAkU/edu2PfpmrRnnvcizIjgPHnEfMfdR/jVSUQaRqEM80u4zjZI8nUY5zx+VAFvbeXmd5FtCew5Zh7/wB01Vgnh07UbqBEaRpCrKkS7iABjn0q0Wur4Zhf7PAfuuB8598HjBqrdNFpt7bNAplmYeWYx1YHkn60AWhbT3uGvv3Sqfljic8+5P8ASqUd/Fb6xcW1qu8sq7I4x8oYdc+lXfKnvgDdqIoOvlg/MfZv/rVUu5be11C2NsY/MUGMJg8luASaALi2LSuJb6YyFeQg+VQPQjvVK3uZhf3EOnxrIsh80yOdoGeOPXpVw2TzZk1GbcvXylOEU+uetU57kSajbDTABvzG0hGFIAzj6jrQBc+zW9mpnuCZXJHL8/N/sjt+FU9P825WWzUPFBG53s3yuc84x269at+TbWR8+8nMso48x+v5CqdqJ7y+vCjtaozqeg3Hj8sUAJqbWlvZtBagSTh1DEcsPmH3j1q3LAAon1W5CqDwgO1V9j/e/GtCHwtqmtxpY+H9Oe6kOx2dMYRN33mOen617l4N+Fdh4cm+3anN/aV6yAYlUGOEn7wUY5B9+eKuMHITaR534J+E2p61em+1lTZ6PcgSBFYrM4AwFx/CD1BBr3HRdDsfD+mR2OmRbIk6sx3M59Wbqx9zWgFCqFUAADAA7UuK6owUdjJtsTFGKXFGKskTFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAHYoxTsUYqRjcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUAeOfG3wc95JZ+I7SGWbyR5V4inIEY5U7epO49a8W1R0Eo8kZ8xD5zIeAnqffHSvse5to7u0mtpgTHMjRuAcZBGDXy54j8KP4L1m60+9g8q1kd3tZHbcrw54G49SBjI7Zrnqx1uaRfQ56/BSG2excCcABMjJZcdD7U2cQJpC3ULkMCHEpGWJzg/n0pumH/TD9oRkYo3kgnOI885/GkgCf2iAzM9rI5MK4wu7HP1H9axLJYrYXNi08kgErv5gY/wY5Cn6Ult5mpiSS4ynlnEQVuh/vex9PY1HcbP7Wa3DskblGk4woPYe+6n6gzWMjNZsqvPjerdFA43ew7UALG0moskE5CmEnz1B6t2GPbg5pvnSzOdMkzvOdzkZxH259SKdPEumbLuLG3btmZjksO36nrR5T29qL1JNz7vMcg5Gw8ke+B0oATzpbOD7AcyXJB8liMhh7+mOlFkqaS09u33SPNVmOM/7PueKBDNeCPUfmSVDlIjxlfQ/XrTJ4jrKiYKywxAPFkYJcHn6igBNMT7HdzTXJ8tbvEiFuNvcg+nWmwKU1TznBFgT+5BHCv647d+akuiNagjtFOwsN0pXnyiOxolmN1pT2KjF0V8vy88rjoT6DigCK451UyL/AMeSvidexk7HHftUmqyvBqNv9mO3zflnZew7E+nenwSRWulGC7XMyACQH+Ik4Bz/AFp2mhYIbiC8x5ifNIWbcNp6Ak9aAHXEKWbQS2uN5/dqv9/PPXsfeoobi7sLVVmsv3rn5pPMBLMe+OpqGxt9RI3yKvlgnynZsmNc9dvepbaC8uf9Ne9ULj92TEPu+uOxoAGi1HTbditzbt5khIBjPLMenWnLZS21tJcX95IrfeYw8Z+vXPpSRW19ezCZrweUn+rJhHze+P5Gmtpkd3dvCJZykZHnEyn5iecAelAEkFpaMrNqckUspPyiZwWQehNQ2s9tDeSGK3cYO2GNYzgepDdOakvxYWhhtWEKmTIaSQAso9ST69KlbVba0tVS1jkmRQEjZBlSewzQAySS61KYRxwi2ktZAxZ2DDOOmB9aW9huFtWa6unMjfIqQHaDn25zSWUepxQbGiijLks0xfcwzz0xzjpRFayajNuup2lgj/1UiDyyW74x1GKALNnb2emQrFuhSTaN5yAWPrVOG/NzqUs1vA85QbI8fKCvc5PHWpbyyt4rYW6R+bLMdoZ/mcA9Tk88VINT06xtfLSeM+UMbEIyT9KAG3NzqCx+YPKtuwjcb2Y+2DVSCymss3OoRLcAt5pwceQepI9f/rVLHqCoftV9bXIc8KPK+VPYe/vViUtInnahMILbPETcZ9Mn+lACpqLXyf8AEtjLKeDKwwFP0PX8Kr6lYW8VmZZ3aSZSGWST5m4OcCmadLclZLSyRVijfHmvwRnnIXvVmaCC0ieS6n3zyqVUueC2P4R2/CgBY5ry/iR40FrEwySTuZgfTHQ1FqMcVlYNs3yXJO5H+85b1/pmk0+W7uLKKK3CwJGoRpGGWDDqNtWhFa6dG0k0uGfgvI2efQZ6fSgBiC7vkUuVggIwyg7mb8Rxio7v7JDaG0tUXzCT5axjO1+xOOnPrUVgbmWP7HG32dIRwWX55F9cdvrVsyQ2TeTawmSYgZ2jP0LH+tAEFrG95arNfXW+NeCq/Kpx13Z680moSyXERNhDnyTkT7gAvrj149Kht4UhnMepfulUGREEhKbc87vXk12nhvwZrXiZVGmaXjT2T/j4nJijZDxujODuI64ppN7Ac5YWsMuy4BWa5kjLhj95xjoo6n2HWvRvCfwbvNZvf7Q8UibT7dYtsMMEo3yZwdxPOB2wea9F8JfC7w74Sgj8m3+2XSqmZ7n5yGX+JAc7Pwrs8VvGnbVmbl2MzRfD+l+HbM2ui2MNnCzbmWJcbm9T78Vo4p2KMVsQNxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUALijFOxRikA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcVwnxX8Et4u8NpJYwLJqVi4lgyTll6sg7ZbAHNd7ijFJ6qw9j401JmlCQ2qr9pVyGz1ixwfyPFMlMM2jwxQBo2fAiVfvAg16Z8WPB1p4T1uPVtMt1ttO1FiJ/mGFn7ADsCASfevMIyY7xr6eMC2Z/3eBgqTxuI9T0rkas7GqdySMxHR5xKCHXcsjD7zMOpH9KNPijubab7SDvkADxt1UAcfmMGmzyRveLcrFuhSQRyH+82ep/3aXUZMXW+DeWSE7zGf4cjgehpDEss3l06XEiywxp+6B6sOm4/wAvwpIxvuRpskgAjbzFx3UdFH070+8VIIImsMJMy7Y9vQjqc/Tk0rRxR6UtxEwM0alg44LN3B+vpQA12mt7z7FDnZMcqy/8sl79e+aSSVNCwiqXinfEYzyrf4UQQi60x7rzVE8h3+ZjARhxwO1MtkGtwyyXIZTG+2NT/CRg5+tADooho90087gR3BJlc9EbsB+dMRGt7n+1ZRt807ZQeiJ2b9B+dKH/ALcMtnONqQNiUr/G3Yj0FK0rXLNpLYLKQshHGY8dR79KAElja41FNTiG62jXbj++P7w9uf0qaeOPVrkLC2wRgP5y9TnoB2P40wTCwgbT5BjOUgLHAK46k9M9ar2dkywrHZXUyQI37yYSAKSPvYH9aAJxZ3N3NNb/ANoTeTGArHaoyevGB0oW0uZpjbwahMYVBWRtq4+g4602O8uITJY2aR3Em0sjJ8qge+ep57VMq39tYjyfKto4lxtl+csfqDQAyW0uLWNLe21CdpMYRNq8D1PHSnjSbKztDJdku+MvIzkZP4UlpYXNyxvLq6eN5kX5Yfkx9c01NPW9vWWaeaa3gI+WRtwdvX6UAOsYLOztmurkKrycsGO7YPQdaja/hubvZBGZ4osOkcS43n159KddQ6fazRxW8dvHLISpfI+QY5z+FWjfWWn28cYkLoi4BQb8AeuKAK9zqN3cOtpbWkkE0gzulxhV9eKkSyuktwGu/sqRrgLCMrj15GahtLua4uJbqK0ebdwu47Sg9BnrnrRdnUZ5Y7fzI4VuD8yqMtGvuffpQAlnplvOHurvLbjhCXIyP7340Xk1qdRht441fyfn2xrks3ZfyNW10mCOIJNLLLCo/wBXK+VFUNKu7eGOQW8DGaVzhEQhDjgYPQcUASanNd3Nif3H2eMuow/385HIxxVowWtn++vpjLJ0Lyen0HH6VVuxc3V/ZCcNaqXYAIwLZ29c1aKWWnv5szNLOONzfPJj6DtQBVs2urm9vfs+II2dQWb76/LwR2rQhsoLc75T5krfekkP3j9Og/Cs/T5Ly6SWe3RYjM+TK/IIHAG3qKdd2nmPFDct9ommPO7lI/cDt6UANsbxgs8Fr5bS+e5YucKoz3+tXFgjtw099P5zY43gYUegFVX07TkVbe1topp8Yyedvu1WNI0PUdQ1S1t7C1fV7l38tSinbE3b5+ijHY0ARzRT6h++2Pa+UDtHG5+Oh9q1vCug6l4gCQeH9NeY7gtxKD8kDHuxJyR16Zr07wz8FLi423Pi27MaMoZbK1OGRs8q7chhj0xXq+j6HpugWAstFsobK2DFhFCuBk9TWsabe5Dl2PPvB3weg0i/h1TxDcrf3kYOLdV/cxtnhhkAnjseOa9MjiSGNY4UWNFGFVRgD8KkxRit0ktiG2xuKMU7FGKYhuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAFxRinYoxSGNxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFAGR4k8O6f4o0OfTNVt1nhlU4zwVbsQex96+UdZtrqxvLvQp9h1G1l8qbb8yrjnOfp39a+xcV5H8bfC0I0yPxPZQxxzWrBbxlU75ozwBgccE5zWdSN1cqLPDEuUtLZ7WWMNKhCY7OW6E/XvTrJ1tFmgucIV+beT98H+gzionEsk7amvMMa/JGR94d2/wpbmV70mS3i3fZsNg9XJGcfTmuc0E09fKvdksZSPb/oxc849MetMgEf8AaZfcRaiRgqsODJnnP49KmvpBeRRizG+cDcrDoo75+vSkkkifSI1VAsm4Iqr/AASf/WNAEd1sGpLaKxFvPxKqjI3dh/s5HNJqkr2NxutTkyhUkUfwDP3vx6VNarAmmSRXDEvGT5m/72Tz2pmmqJ7Wd7wt54BSRnA+UdePagBdR26RCl5AudnyMmcb89ye9JJD9khbVQd05QM/HDL6e3bmm6UWuLqRLgbkhRRDu/iX+9+NRYunmk0+GIy26NzITwc84b2+lADmuJZTNPNZbwD8guPlUL2x75p8NtbW0KNf3HkrIxkWEnYFJ6g+tNnSe/mMFzcJHDEf3qxn5TjnHPOajuJLIhbfTImuHkYGQLk/KOo+bpmgCxZzMjytFZyCSQ4jUphFH+92B602Zr/U5fshSOCNCDI6tv5HIH1qVtRuTJHaW1i8cjD/AJbHhV6Z4NRGK9tbSO3adY36J5Iy0h980ASXCX7yfZor4O7ffxEBsX1z2PpSvpdpZ24zLc56BVlbLN7CmPYz2qm4l1Gbz5AFYIq/MewHFOj0u6fZPc6hKsoHZVwo/LrQBNYaTDDCxuIlkeRtx3jcV9snrSSQRS3RtLaNYlQq8xVcZHYe+arPHevP5VrfXEmDhpCq7V9R0pdN05LiOZruR5iJmUZOMYPtQBebU7VfkhbzmXgpCNxH4VRgku77U557dBAgHkln+8uOfu/jWi81nZIGJRP4Rgc1nWE13NLd/Z4fLDzFi0vYYHTHegCTUNOLafPLc3EskqxnlWKKeP7o4qS21C2jtIkto2mAQZ8hMhTjv6VW1KxKwRG6uZLjMyL82FwCeelWxqFtEvl2MZmZeCka4wB3OaAKqre3esMspW3KxAhR8/BOOPQ069az0+2kijYtduu1Od0mT05602xtbm6M9y900SSyEgRgFWX6nmrlro11qWsWthoWmTag4DSGKEZORjB3E9vrQBDDJfG2VILdYY9v33OGBxydv1pugaJc+JJSbGO71C+fHmLa5/cgnA3Y6LnvXtHhv4IzTvHdeLbxfLBDfYbbO2RSOVkJGQc/3TXq+j6DpmgWMdppFlDawxJsUIvOPQnqfxrSNNvclyPHvCfwD63Piy4MZcFZLK0kPOPut5owc+oxXsOlaJp2iWv2fSrKG1TA3eUgUuQMZYjqfc1oYoxWyilsQ22NxRinYoxVCG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAFxRinYoxSGNxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUyaCO5geGdBJFIpV0YcMDwRUuKMUAfLfxC8JXng7W5bOMJ9mv3d7F4zgRpn7uO20EfWuQEjaU0kZBkVk3oF6A9CPqTzX1N8RvBp8Y+GWtrUxx38DiW3lZRkkc7N3YNwDXy7cWk15PP5jeUYd0KhTn5wcE/mCK55xszRO41GbTpQ05DJcEs7AYCtj+VRRZjvkvdiraSZ28ZKk/wAXtmnhn1VRbyp5aKoMnGfmz93+RpDcmeE6cVCzsGTHTCDjdj+lQMhuvn1EXcXy29vIDKRyH4+9746U/VhJLMhsD868zlTjKeh/wp6T/ZNONpOiNOo2rHjAk9MetJpwXThc293JuYnzNx7qeB+NAD7jazWbadtEpX90GHy7OMmq00N1YWYge+jRmY+UI/lJYnPJPbrRHZxwsZdQvDBHKxMcZbaVHbB7fSo7M2RuJpzHNeR/djyDJsHfOenNAEmNLgkYMr3Fy7ZWR0Lbmx2I4qeOW6tIXkls9srj55mkB5+nUj2qOKW6vJkuLSzT7NDnyQ7bPxximzedeNIL+8WK2jdTlQAN3dd3tQBJFBqXzXk89ujFf40Pyr7c8ZqGFI7i3W6mv53fOYo0kBZc8YoZbb7VEbVri6hXmQo5lB/2SKWaOVtQszb28dmrO2yTaNx47rQA94ZLRVuJbxmulJ2o/wC82qe2Bz+NWYTLqMjpcsoiTG+EDBPHc+nfFPzBZvsXbPenn/aOf5Cql3YXcsqXcztGoP72GA9R9R1NAF77ZBbhbeyj81gPlSP7v/fXQVSt4bp9Rnhkl+zxsBIEj4OT6H+dW0vrOJNliolJ6rCucH1OOlVJo7u41W1Fw6wFkcbE5wOM8+/6UAWjFp9gJHURrLtw2OXP4VW0ya8fS4Y4LcICvyzOwI6+nWr0NjALiK1toGuL2XiGMDfLIfQdzXXeDPhV4q1q1gju7ZtHtUyks1yuJVPXIjPUdBnNNJvYDgbu1BvraK/uneKQM7qzYTIxjHtXTaLoOq+Ipza6BpslyQmfMI2R7emQ54P0Br2zwx8GNA0W4S81f/ic3yBl3zpiLaf+mfIyPWu/s7G10+1W2sLeK2gT7sUSBVX6AVoqfcnmPI/DfwCs7SwjXxFqk9zNG+VS0PlxlOu1gQc9816jo+haZoFiLPRbGGytgxYRxLgAnqa0cUYrRJLYm9xuKMU7FGKoQ3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUAOxRilxRipATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFeAfGbwa+iao/iGwdWg1KVY5ISuBFJt4IwPu4ByfU19AYqpqmmWusaXcWF/Ak8E6FHjkGQaUldDTsfGvlf2VJDIGaRGTZIT+YP1J4puya3Av35dm+cEdI/f6CtbXPD1xpHiS60nUZC5sHaNH2FfNyPvjP8ADg4/CshfMkYaapBSMjMmeGT+7jufWuc0EPm3ksWpwj5IyQIwOXXPPXvmm3NxY39yhnkX7NGM7hn5m/unHp1p097Jp5a1YM24/um2lsL3Jx6Hio4bm0sIP+JdaPJKRtJZSpP59eaAGM9tLK0OnWsk8PHmunP4Dcamla7uM2NtbxWyyR5G7IZQDjnHehV1GzsZJVMMJyXaNxuLMfQg9/SpEt1w09xftDPIA0ixyBR044NAEV8lzBbgfbykj/L5MYG0DvjjPTmmxy6TYohtw1zKSF2jJLE98HioLR9Pdzc3EUksrfd3Rk/iTjGferYe91ObckCwxIfkMhDLkdyB19jQAtiL6OGR1to4WZiZDNxn0xj2pq2t1qEv2ma6McaZMYAG0k8HHfH60ZuNQuJLKecTKBgraKd7N/dA5J/CtjRfBPiTxFqM1vpul393BDEGdLz9wpOcfxgZ/CgDGt7z7HmNYYXbfsDRkkKx/vE8/lVt7Uzbm1GfcMf6mM8KfUY5Net6H8Abu5MB8S6jHFZ7A5tbRSssT9hv5Bx9K9G0H4XeFfD7208GmR3F9bNuS9uBumz6k8fSrUGLmR84eF/DGv6rbldE0G5uraOXyRdKoVe3LZIPGfSvTtG+AlzdXSyeLdRhMMMiskNjnEozyrFgCB9K9vChRhVA+gpcVagkTzMwNA8EeHfDCuNF0yKAu4csSXYEDGQWyR+Fb2KXFGKsQmKMUuKMUCExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigB2KMU7FGKQxuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAPL/jZ4UfVvDaaxp0Ra+047isUW5pUPBBPXC5LfhXzu9sltZi8gfc8YaTd2fPJ/OvtdlVlKsAQRgg968I8T/AjWbzxJc3OhahY/YJpWn8m63KVZjkjCjG0dqzkr6opM8ZtJ72QyXaWeWcZIlbbsGOinHIPWks49S1C4+2vLHBGy/uhtD4/z617LYfALWL2R4PEOr29ralOG0/LOT6HeMYrqNF+Avh2wkk/te6utZiKgRxT4jEZ9Rsx+tTysd0fNzhbqfOp34EEbFUA/dlmHX8qvWOh3GuzD+xNIvNTgtXBmnghM2WxwpP0r6v0L4d+FfDnnf2To1vH52C/mZkzj/ezjrW/bWVrZqy2ltFAGOSIkC5/KnyCufM9t8H/Gur6fAbextrC1mKn99NsljTPOY8cH2zXoWk/ADSYldde1O51BQAIRBm28v1+6ee1eu4oxVKKFc5nw/wDD/wAM+Gba3j0vSbcPbsWjuJUDzAk5zvIz3rpMU7FGKoQ3FGKdijFMBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAFooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//9k=)

Figure 3.7: Mesh at a cross-section of 3D vertical riser

### 3.5 Computational Modeling

For these simulations and for future simulation in ANSYS Fluent, Volume of Fluid (VOF) multiphase model with implicit body force has been used. Laminar viscous model has been considered for simulation 1 & 2. Both simulations were done with non-iterative method Fractional-step and PISO scheme. K-eps RNG turbulent model was used for the other simulations. Courant number was controlled using variable timestep size for stable solution. Scaling was done to improve control over CFL condition.

## Chapter 4: Result and Discussion

From simulation-1, we notice the propagation of a volume of water propagating through air chamber without gravitational body force acting on it. Figure 4.2 shows water volume at different time in the air chamber. We notice from the figure that the volume of water broke in two parts and oscillating as it is moving forward.

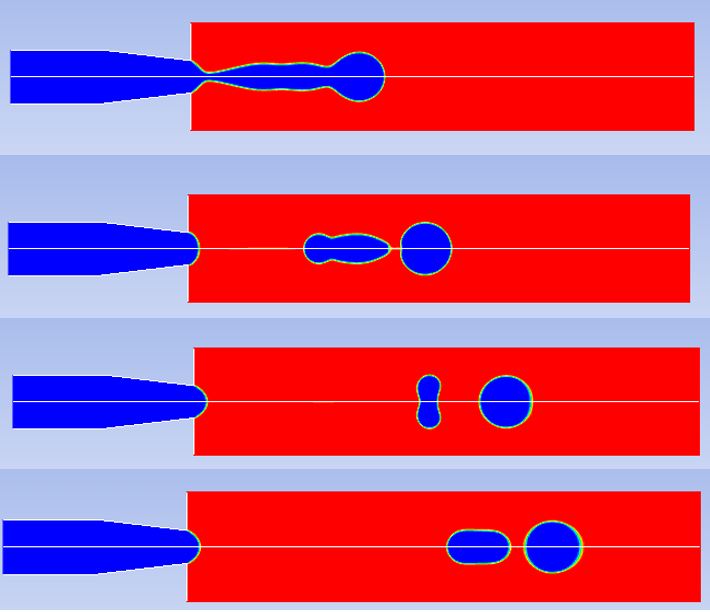


Figure 4.1: Volume fraction of water propagating through air chamber

From simulation-2, we observe the rise of a taylor bubble by gravitational body force. No external velocity or pressure has been applied as initial condition. Figure 4.2 shows the bubble volume fraction at different time. We notice that separation of smaller bubble occurs at the tail of the slug. This agrees with the literature for two phase slug flow.

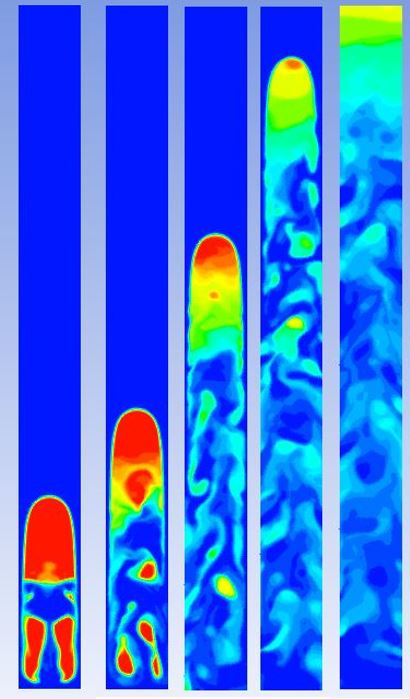
****

Figure 4.2: Taylor bubble rise in vertical riser

From Figure 4.3, we observe the bubble at two different Reynold’s Number and the velocity vector representing liquid motion around the taylor bubble.

![A close up of a logo

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRhbmltAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5OAAAkpIAAgAAAAM5OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxNzoxMjowNCAyMzozNTo1OQAyMDE3OjEyOjA0IDIzOjM1OjU5AAAAVABhAG4AaQBtAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMTItMDRUMjM6MzU6NTkuOTgyPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPlRhbmltPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAfUDUQMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APoq9vbfTrN7q8k8uGPG5tpOMnA4HPU1k/8ACaaB/wA//wD5Bk/+Jo8af8ihe/8AbP8A9GLXlFelhMJCtByk3uc1WrKErI9X/wCE00D/AJ//APyDJ/8AE0f8JpoH/P8A/wDkGT/4mvKKK6/7Opd3+H+Rl9Ymer/8JpoH/P8A/wDkGT/4mj/hNNA/5/8A/wAgyf8AxNeUUUf2dS7v8P8AIPrEz1f/AITTQP8An/8A/IMn/wATR/wmmgf8/wD/AOQZP/ia8ooo/s6l3f4f5B9Ymer/APCaaB/z/wD/AJBk/wDiaP8AhNfD4/5f/wDyDJ/8TXlFBHB+lJ5dSSbu/wCvkCxEzu7/AOM3gLTNSubC+17yrm1laGZPsc7bXU4IyEweR2qD/henw5/6GL/yRuP/AI3Xy549/wCSjeI/+wpc/wDo1qwK+4w/B2Aq0YVJTndpPePVf4QeImmfYX/C9Phz/wBDF/5I3H/xuj/henw5/wChi/8AJG4/+N18e0Vv/qVl388/vj/8iL6zM+wv+F6fDn/oYv8AyRuP/jdH/C9Ph1/0MX/kjcf/ABuvj2ij/UrLv55/fH/5EPrMz7Jg+M3gK5tbm5h17dDaKrTN9jnGwMwUcbOeSBxUH/C9Phz/ANDF/wCSNx/8br5c0T/kVfE3/XC3/wDR61gVy0eD8BUnOLnP3Xbddk/5fMp4iaPsL/henw5/6GL/AMkbj/43R/wvT4c/9DF/5I3H/wAbr49orq/1Ky7+ef3x/wDkSfrMz7C/4Xp8Of8AoYv/ACRuP/jdH/C9Phz/ANDF/wCSNx/8br49oo/1Ky7+ef3x/wDkQ+szPsL/AIXp8Of+hi/8kbj/AON1u2XxA8M6jp1vf2ep+ZbXALRP9nlG4Bip4K5HzKRz6V8QV7r4J/5JzoP/AFxm/wDSmWvEznhnB4CjCpSlJtytq12b7LsUsRN3PcP+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDia8oor53+zqXd/h/kL6xM9X/4TTQP+f8A/wDIMn/xNH/CaaB/z/8A/kGT/wCJryiil/Z1Lu/w/wAg+sTPV/8AhNNA/wCf/wD8gyf/ABNH/CaaB/z/AP8A5Bk/+Jryiij+zqXd/h/kH1iZ6v8A8JpoH/P/AP8AkGT/AOJragnjubeOeBt0cqB0bGMgjIPNeHV7Nof/ACL2nf8AXrF/6AK4sXhYUIpxb1NqVWU27l6op7mC1jD3U0cKE4DSOFBPpzUtc147/wCQHD/18r/6C1cdKHPNRfU2k+WNzZ/tjTP+gjaf9/1/xo/tjTP+gjaf9/1/xryfFGK9P6hH+Y5vrD7HrH9saZ/0EbT/AL/r/jR/bGmf9BG0/wC/6/415PijFH1CP8wfWH2PWP7Y0z/oI2n/AH/X/Gk/tnTP+gjaf9/1/wAa8oxSEfKfpSeAile4Ku77Hpd34z8L6fdPa3/iTSLW4jIDwzX0SOvGeQWyOCKh/wCE/wDB3/Q2aH/4Mof/AIqvk/4tf8lV1z/rpH/6KSuNr7LB8H0MRh4VnVa5knsuqE8Q07WPuL/hP/B3/Q2aH/4Mof8A4qj/AIT/AMHf9DZof/gyh/8Aiq+HaK6v9SMP/wA/pfchfWX2PuL/AIT/AMHf9DZof/gyh/8AiqP+E/8AB3/Q2aH/AODKH/4qvh2ij/UjD/8AP6X3IPrL7H3F/wAJ/wCDv+hs0P8A8GUP/wAVR/wn/g7/AKGzQ/8AwZQ//FV8O0Uf6kYf/n9L7kH1l9j7mtvG3hW8uo7a08TaPPPKwWOKK/iZnJ7ABsk1H/wn3g4dfFmh/wDgyh/+Kr5C+HP/ACUzw9/1/wAf865x/wDWP9T/ADrkjwfQliJ0favRJ7Lrf/If1h2vY+4P+E/8Hf8AQ2aH/wCDKH/4qj/hP/B3/Q2aH/4Mof8A4qvh2g11f6kYf/n8/uQvrL7H3F/wn/g7/obND/8ABlD/APFUf8J/4O/6GzQ//BlD/wDFV8O0U/8AUjD/APP6X3IPrL7H3F/wn/g7/obND/8ABlD/APFUf8J/4O/6GzQ//BlD/wDFV8O0Uf6kYf8A5/S+5B9ZfY+4v+E/8Hf9DZof/gyh/wDiqmtPGfhfULtLWw8SaRc3EhISGG+id24zwA2TwDXwvXZfCX/kq2if9dJP/RT1yYzg+hh8POqqrfKm9l0Q1iG3ax9h/wBs6Z/0EbT/AL/r/jS/2xpn/QRtP+/6/wCNeTAfKPoP5UuK+OWAi1e4/bvsesf2xpn/AEEbT/v+v+NH9saZ/wBBG0/7/r/jXk+KMU/qEf5g+sPsesf2xpn/AEEbT/v+v+NH9saZ/wBBG0/7/r/jXk+KMUfUI/zB9YfY9fguYLqMvazRzIDgtG4YA+nFS1zXgT/kBzf9fLf+grXS15lWHJNxXQ6YvmjcKKKKzKCiivDtfH/FS6n/ANfcv/oZrrwuG+sSavaxjVq+zV7HuNFfPuKt2i/6Lf8A/XBf/RqV3Syu32/w/wCCYLFXex7vRXzK1skjqqLtik+aQ84Cg9Dj/ZAq8ZczFiCscUYOPVj0H1/xrplkltqn4f8ABMI5hfeP4/8AAPoyivnGSGR1EPG7Hmy/LkFuw6+o/SnW8gUZb5Fwcgnp3P8A9c1P9jaXU/w/4JX1/Wzj+P8AwD6Mor5rS1N+z3EhdeSI1Dcdu+OnH6moJNGlaNnZ0zjhFUvn06n3NUslhezq2+X/AASfr8mrxhf5/wDAPpuivm37I8QMktzJHEoGQGy2Prjj8KUpBCjP/pTKSAcswA7dzS/sZdKl/l/wR/X+8bfM+kaK+cxeYYAW0u3HUYJH4A56VSuI3njEwTEinLAsCo7HryP6dqccjbfvTt8v+CTLMope7G/zPpmivnOBVnRSQVkjGAwGCB/kUhR1Um3ZWb7xRRwfpz3qP7G1t7T8P+CV9fVubl/E+jaK+cEuWaRSSxQnBUr0ye/0PB+uajeLBe1dWbkyW5HYDtn2NV/YjvZz/D/gi/tGLV+U+k6K+ZrmFzevcwKzedb4Kg4wexH5AVuamC2h2yx5ZtkgAU/7dTUydQcf3l7+X/BKhj+bm93b+ux77RXzRbwO32yY7lNw4RQM/IDj/HNTxbXl+TK2tuvG4feb19Tgfzq5ZJytr2m3l/wSI5ipJPl38/8AgH0hRXzcbubGBGQz52rszt9j9Op+tTeS8mPMdWYY+VuQvvjuf5VLyVrWU/w/4I1mMZOyifRdFfOF2xt4SkJcux3EliCfx/oKgtWFrGrz7h5rbmUR8A8c5PJxjtVLJG43U/w/4InmMVKzj+P/AAD6Wor5y+32suUWZkP97YR+pGKQieQkw38X+yPLByffmo/sZ9Z2+X/BL+vx6K/zPo6ivmi7huZF3XUcGUA2sFI574bt+NRQWd7AVWZpMA43qA2DnH5ZP5Z961WRq1/a/h/wSP7Qd7KH4/8AAPpyivm+2eeC6+zXTKQ2fKYEkt7flS3Z3kgZDnhMcEntj8sg+2Kz/sV81uf8P+CX9fXLflPo+ivnSORj5TurZb93Iufutnr+efzFMuIvtlrLCW2yxuMEDoRyDj6Uv7G1s5/h/wAEPrytdR/E+jqK+ZYImvLoNPwrAP5fP3sf/X/Suk1Qf8TKT/dT/wBAFTVyhU5KPPf5f8EdPG+0jfl/H/gHu1FfPuK+gq8/FYX6vbW9zqpVfaX0CiiiuI3MLxn/AMije/8AbP8A9GLXlWK9V8Zf8ile/wDAP/Ri15Zivcy7+E/X/I4cR8Y3FGKdijFejc5huKMU7FGKLgNxRinYoxRcBuKQjg/Sn4pCOD+NEvhY10PDfHv/ACUbxH/2FLn/ANGtWBW/49/5KN4j/wCwpc/+jWrAr9ZwX+60/wDCvyFLcKKKK6xBRRRQBv6J/wAir4m/64W//o9awK39E/5FXxN/1wt//R61gVwYX+LV/wAX/tsSnsgooorvJCiiigAr3XwSM/DnQf8ArjN/6Uy14VXu/gf/AJJzoP8A1ym/9KZa+U4o/wB2p/4l+TLjszYApcUoFLivh2SNxRinYoxSuA3FGKdijFFwG4r2PQ/+Rf07/r1i/wDQBXj2K9h0T/kX9P8A+vWP/wBAFeXmPwROrDbsvVzXjr/kBw/9fK/+gtXS1zfjn/kBw/8AXyv/AKC1ebh/40TpqfAzgcUYpcUYr6E88TFGKXFGKAEpD90/SnUjD5T9Kl/Cxrc8S+LX/JVdc/66R/8AopK42uy+LX/JVtc/66R/+ikrja/Wcr/3Gj/hj+SIluFFFFekSFFFFABRRRQB0vw5/wCSmeHv+v8Aj/nXOP8A6x/qf510fw5/5KZ4e/6/4/51zj/6x/qf515lP/f6v+GP5yLfwIbQaKDXpIgKKKKYBRRRQAV2Xwl/5Kton/XST/0U9caK7L4Sf8lW0T/rpJ/6KevMzX/ca3+GX5FR+JHti/cH0H8qXFCj5R9B/KlxX5RH4UW9xMUYpcUYpiExRilxRigDvPAv/IDm/wCvlv8A0Fa6Wub8Df8AIDm/6+W/9BWukr57E/xpHoU/gQUUUVgaBXiOv/8AIyan/wBfcv8A6Ga9urxPXh/xUepf9fcv/oZr1sr+OXocmK2Rm4qxA2yx1B/7tuD/AOREqHFTxIW0/UVHU24H/kRK9uXT1X5o4ejsZMVs620kazIxZQA2Mcd8/rTh5fmY24TmVuep7Y/Dn8qhTf5EgG5WbCYI6Ekf4GrCR5kMUi8DrwcY/wAgV6Eo2bZ5Uazk0kv6uPt4yqs7Y3yHcccfT+VVGgLyGCIlEJ4KkcL6ADt1q3JIRhRndKc8HoKfGVTcxxjGd2Ow/p6VlFyhr3N3KM3yX23It2zbBboRjjIGAMf/AKxU6g7cMcn1AxUDTs5/dgqgOM+tR+ZLJkAt0ydvWn7OUl2MZY6lTlbccTHEyqUklcHgtzk1IZGwTJFtUdSzA02J2CEpAc+rHr/WpQZChEiJ+v8AhSlHy/EI4iO/Nb5afNshZI3dSuzj7vBXH4ipUiIyX5PbJBx+NOMYI54z/d4pqoyqdh/A85os2rXMpYuNOSbV0+qGNEA/7ltnHzBR/SlwcjbhT+h+n+FWI4PNjyWVADjJPeljHlP83POKPIzli4K8oq/e3QrtAHYFl5Y/MPcjH6jikkiaNlVhmSMjaT1PrWj5MT7clm+XBJOPpTuhgO1H8ttrErnORj+lcMMbTdX2V/eOWWZc1RRpx36bd/8AhzLEeI0UfeTAz3wDTXD/ANm6YyN87CfLYGW/eHr+VWxFjduGCclcVYuIV/szT1A4UPj2+Y/411+1ScfX9GejGDrKduisZzpgL5SjIyfTkDApVgLxlIx+6jGWwOpHr7VbhULcFyoZRuwG6f56VMkStCkbYUdWwOTnnr+VZVsTToR5pvQ4q+NlRSnbR/1tv6mdHD5WWAy2MZPb/J5NNKZzwN453EZwf6mtIoiRj5uc5wR1qsITLIBGQp6//qq6VVVY862NI46nNNRW3y+ZXWBWJMoBYnkHkD04okiPmHaMk8k7cn8zU0iGJgNuGIz17e9MZHfhjgemOK1Sk3e5s8ZSS5Vq/LX8SJIQiHzSxA9ZCSfrSytBJlZl7clkIx+OKf5MZUEpn8hTmm2HBjcjuQM0neTOiNSMY7pL0I1JYgJMsi9wcE4qSRnQZC7h356VCZI1YiFtrYxtYf40oujjnFN0pN3SBYynH3ZPX70Muk8+3EtuTvQ5G04J9qbb4lmUoy4XJIB756fT+Rqxb+S0hZEVZT97A5ND4hLFM9dxHJ/L/PWndpchomnare66/wBfmRyRfv2TgJMp7dGGMH8v5VEynBlGNwA3gL8xZSOfy/mKtOTNH+6YZYbo29xVV2EOXQEnfv7498/n+lOCbRFWqovm6f1/XzBk8q+RY0baXBL9huBB5PvitjU/+QpcD+4+z67flz+lZUsrNcqOWAcEKvf/ADitfUh/xNrz/ru//oRrnqpqcb9jpozjJO3cp4r36vA8V75Xh5p9j5/oenheoUUUV4p2mH4x/wCRTvP+Af8Aoxa8txXqfjD/AJFO8/4B/wChrXl2K9zL/wCE/X/I4cR8Y3FGKdijFegc43FGKdijFADcUYp2KMUANxSEcGn4oI4ofwsF0PCfHv8AyUbxH/2FLn/0a1YFdB49/wCSjeI/+wpc/wDo1q5+v1rBf7rT/wAK/IUtwooorrEFFFFAG/on/Iq+Jv8Arhb/APo9awK39E/5FXxN/wBcLf8A9HrWBXBhf4tX/F/7bEp7IKKKK7yQooooAK948Dj/AItvoJ/6ZT/+lMteD17z4GGfhtoP/XKf/wBKZa+U4o/3an/jX5MuOzNrFGKdijFfDdRDcUYp2KMUgG4oxTsUYoAbivYNE/5F/T/+vWP/ANBFeQ4r1/Rf+QBp/wD17R/+givMzH4InVh92Xa5vxx/yBIf+vhf/QWrpK5zxv8A8gSH/r4X/wBBavNw/wDFidFT4GcHRS4oxX0BwCUUuKMUAJSN90/SnYoI+U/Sk/hYLc8O+Lf/ACVbXP8ArpH/AOikrja7L4t/8lV1z/rrH/6KSuNNfrOVf7jR/wAMfyREtwooor0iQooooAKKKKAOl+HP/JTPD3/X/H/Oucf/AFj/AFP866P4c/8AJTPD3/X/AB/zrnH/ANY/1P8AOvMp/wC/1f8ADH85Fv4ENoNFBr0kQFFFFMAooooABXZfCT/kq2if9dJP/RT1xors/hJ/yVbQ/wDrrJ/6KevMzX/ca3+GX5FR+JHt4Hyj6D+VFC9PwH8qXFfk62Rb3EopcUYpgJRS4oxQB3Xgf/kCTf8AXw3/AKCtdJXOeCP+QJN/18N/6CtdHXz+I/iyO+n8CCiiisDQK8V14f8AFR6l/wBfcv8A6Ga9qrxfXf8AkYtR/wCvqX/0M16uW/HI5MTsjNxVq0H+i3v/AFwH/oxKgxVq1ANreg94QP8AyIlezLZeq/M4JPli35GSsKhC4LZXp8xxyP8A69OXEibTz5hJPHYf/qqV7dduwbsZz1/ClEK5CgHldg57V3cyavc8BVeW2llbb1K5j3o0xBDMRjIGQOlDqXIjUnnnIOD9auiNduMfL0Ax1FAj5wMYHHFQqnU1rWT5E91q/wAyAQR7QNoIXpxTtgB6de1S7dv178dKcqfMAQAT0ycVHM77mvtEqXtLW7K2uhBsyep+gp6wBg2RtwMjI61cHlhXWWTDAhQFGaaY1LAE7s9OD/jXNVxdKjKMZys3scMsQp3UouPnq/u6FUQE8KA30qbyoVQooyxwRIe34U50C4CgjnrjFIcnlhu9xwa8qpjMRL7SS5tNOnmccZSnacJcqvpdfdfUj4DASqDtGFI6GnvEjxgKPmA/OgFMFSGx70n8BHPB4BrqcpTmpXfMul/yOyVL31ON4tNXXR+f+f8AmNiYjK/iM+tSMcLgDqNw/DmmFcjcOvelYho/frUV2pVqdR97P7iqmFpKrCpBWTdn5EsshJk2427OOPeoDuFvYfOxwJuD/wBdKkf7jf7g/nTpowtjZMM5xL+r5rqo8qil5v8AU6cDhUqUow6ji25ZFbqzlR+dM37xk8bjgUko+9j++f601yMBV9MV59WEZTjBLeV/wPM+qQm4wj1f3Ky+4jbMrgKOOwqYxRrCB1PVu1M+4OOvenHDOFJ+UAdK7asnK1pWijqq0VzRhTlyxWr87d/0IyA4CgdCcOaWS3iC7o2JAxw3WpCy5+UnA6ADrQGZfuDb3BJyawni60KkbW5fxMqinHlVNWj2e79f+G7lYQM3HPX1pGiwSM89+9XPKWT5l5bvk0ojLAZK4/2iOa6aGPUqcfatKT0t5mdCpS5eaS1W60TT/Mo+WCcuAT2OKYbZCc9DnIK8VoywBCyiP7vO5fSq5GOMcV387WtzvozpYm/LH7+v+ZSltuA6cuvOemfyodsxFwNx6+mcn/P41d2HjAyDTPIGOhwGzjP6fSrUtNROpFTvDbZrsypHHJGvlZ5X51Jx+I/nSmONXKqi7ZQM47j/ACatPESysMAxnOcdjUEkLLGNu35WOOvQ1UXzO7LqyVFOK1tb7v8AhrkcNvi6RpVUuD1BPHHatTUh/wATa8/67v8A+hGqYSRrgMoTbxnnnoaval/yFbv/AK7v/wChGuaq26iv2O7BuHLKMej/ADKeK96rwjFe714mZ/Y+f6Hs4XqFFFFeOdhieMP+RUvP+Af+hrXmFeoeL/8AkVbz/gH/AKGteY4r28v/AIT9f8jixHxDaKdijFeic42inYoxQA2inYoxQA2jtTsUY4qZbMF0PBvHv/JRvEf/AGFLn/0a1c/XQePf+SjeI/8AsKXP/o1q5+v1zBf7rT/wr8iZbsKKKK6xBRRRQBv6J/yKvib/AK4W/wD6PWsCt/RP+RV8Tf8AXC3/APR61gVwYX+LV/xf+2xKeyCiiiu8kKKKKACve/An/JNtB/65T/8ApTLXgle+eAx/xbbQf+uU/wD6Uy18pxR/utP/ABr8mXHZm3RTsUYr4TqA2inYoxTAbRTsUYoAbXrui/8AIB0//r2j/wDQRXkmK9b0b/kA2H/XtH/6CK8zMfgidOH3ZdrnPG//ACBYf+vhf/QWro653xr/AMgWH/r4X/0Fq83D/wAWJ0VPgZwmKMU7FGK944BuKMU7FGKAG4pCODT6Q9DSl8LGjwz4t/8AJVtc/wCukf8A6KSuNPWuz+Lf/JVtd/66x/8AopK4yv1vKv8AcaP+GP5GcviCiiivSJCiiigAooooA6X4c/8AJTPD3/X/AB/zrnH/ANY/1P8AOuj+HP8AyUzw9/1/x/zrnH/1j/U/zrzKf+/1f8MfzkW/gQ2g0UGvSRAUUUUwCiiigAFdl8JP+Sr6H/10k/8ART1xorsvhJ/yVfQ/+usn/op68zNf9xrf4ZfkVH4ke5AfKPoP5UYpR0/ClxX5KtkW9xuKMU7FGKYDcUYp2KMUAdx4I/5As3/Xw3/oK10dc74K/wCQLN/18N/6CtdFXg4j+LI76fwIKKKKwNArxrXB/wAVDqP/AF9S/wDoZr2WvG9cH/FQaj/19S/+hmvVy345HLidkZ+Ks2oxb3h/6Yj/ANGJUGKt267tNuv9+P8Ak1etUlyq/p+aPOrKPspc21n+RHFFvmBA7AD6Y5pPJIVVAP3Sc/X/AOtirUUagM24EH07Z4FRkeZJyTtznn0pzrqKufn7xCVZyhJ2j39PkRLbkuq9DjOKVowPlj+8euByB6fU1OSI8t13GhpCkoChW9cD9a544lTYU8dXq1LxV1rv1a3/AK9CHyQoBI+bsOw9/rSNAp2l/uk9v5VZdWCb9vyHmqrybhjtXl4jNo8rVH3mtNP63HLGY2ylFNN/fr28wlZUVVijAPY4yRSee/YgD6ZpnegqxxkZyM8CvnlLG1K0qj2dtHsjnp0a/PzSW/8AN9/UcZM9wB9Kbg/7Lf59KQo3YH8qbz3r08Ph8Ty+zcd/LT+v61PdwuEqOCpuO/l/wwPz19elIPukUvJoxX0NOhamlLff0PoaeFSpqL3Won86THFOxRiumUVLc6HSjfYRjnGPTFWLgf8AEvsvo/8A6FUGKs3A/wCJfZ/R/wD0KpaUbJf1oy6dOMI2iisTleev+f8AGmnsadijFP2cea5l7CCd0JjPFDck445pcUYqZU1OSk+mxLw8XJNbJf16jhx9fQGnYP8AdAB9aaCQMU3B/wAmvDxFOtTm5Jb9dzxK+FnCTla9+upMJAvRQSPUimtIvl8RDryKYBinYHp1714VWWJhFqmkn0fVfe9v+DofP1adSF1DS/nZ/wDpW33koiRogISU3DkZ600Q4UBwelIrYGAcVMrhgF7gcCvZwObOX7updtbsVHMK9N+zd3bW/X/P/gERh8vHGe/+8KUwDG5ckEce9WvlVCXXgc7cYOfWhQq8ru2tyPQf5zXu/WYuPMjWWZVLOfLr18+tvVf8MUTGTjuCMfUUJbqdoABBU5+ucf1FWihXOD0+ZeOnr/SnwDtjAz1Hp/nFbQxEZbBUx1SdNTg1p+Xb5f59iiqBR1ydxBPtxipdRH/E1u/+u7/+hGnSxNk8Y5Gfbg0aiP8AiaXf/Xd//QjTlNOfyPqcqu6Tk5J3tsVNte6V4bivcq8rM/sfP9D6LDdQooorxzsMbxd/yK13/wAA/wDQ1rzLFem+Lf8AkV7v/gH/AKGteaYr2sB/Cfr/AJHFiPiG4oxTsUYrvOcbijFOxRigBuKMU7FGKAG4op2KTHWlLZjR4H49/wCSjeI/+wpc/wDo1q5+ug8e/wDJRvEf/YUuf/RrVz9fr2C/3Wn/AIV+REt2FFFFdYgooooA39E/5FXxN/1wt/8A0etYFb+if8ir4m/64W//AKPWsCuDC/xav+L/ANtiU9kFFFFd5IUUUUAFe++Av+Sa6D/1zn/9KZa8Cr33wCP+La6F/wBcp/8A0plr5Tin/daf+L9GaQ6m9RilxS4r4MQ3FGKdijFIBuKMU7FGKAG4r1nRv+QFYf8AXtH/AOgivKMV6vo//ICsP+vaP/0EV5uYfDE6cPuy7XO+Nf8AkCxf9fC/+gtXRVz3jT/kDRf9fA/9BavPw/8AFidNT4GcNijFOxRivdOAbijFOxRigBuKQ/dNPpG+6fpSl8LBHhXxc/5Ktrv/AF1j/wDRSVxldn8W/wDkq2u/9dY//RSVxlfrmVf7jR/wx/JGctwooor0iQooooAKKKKAOl+HP/JTPD3/AF/x/wA65x/9Y/1P866P4c/8lM8Pf9f8f865x/8AWP8AU/zrzKf+/wBX/DH85Fv4ENoNFBr0kQFFFFMAooooABXZfCT/AJKvof8A11k/9FPXGiuy+En/ACVfQ/8ArrJ/6KevMzX/AHGt/hl+RUfiPdAOPwpcUqjgUuK/JI7Gg3FGKdijFMBuKMU7FGKAO28Ff8gWX/r4b/0Fa6Kue8F/8gaX/r4P/oK10NeFiP4sjvp/AgooorAsK8d1v/kYNQ/6+pf/AEM17FXj+tj/AIn+of8AX1J/6Ea9PLvjkcuJ2Rn4q5aj/QLn/fj/APZqq4q3bj/iX3Ppvj/k1ehjJqFCUn0PIxsuTDVH5MYjZUqWwwGAelOZsglu5AquGCyAkdCKe75YLntyfevm8VjfdtHukj83x1N865dn1/4Yc8ndh8vYf1o3BV4PB6ZqJmJxnoo4zTOWbCjjtXLjcesPRi09+q2/r/M6atBxowguu9trdP8APzuOaZ8bVbAByMdqDLJj5iGHqyg0BNi56ntTwmRvfIHv1NeRh5U6tZzoJu+u71fr/wAOz18JQSnenf7/ANRoZT1jA91JFBKdmdSPbNDHPAHFNxX2mFy+UbVJ+6+y1+9u/wCFj6Ong4u0ppX/AK7ibj6n86TvTsUYr27nbGEY7IbijFOxRikWNxRinYoxTAbirNwMWVmDwdrnHsWOP5VBirN2P3dp/wBe4/8AQmrOXxIa2ZUxRinYoxVkjcUU7FGKYxuKUHb0/UZpcUYpEuKkrMcpYngoPqAKVgDjdIMj+6p/+tTaAK4MXhqlbWErf13/AOAcdbBwm1KK1QHyx0DN+IFHmgfcjUfiTTtgkGFGGpu35trda+LzKM4r37q293fTbRnhY+g7K+lvn9zepMLnzXBYAY6YFK3TBIVf61XKlG6cUobevXpWmWY6nBww0ZaW+Z4Xs39ZjGU9++/yLIk4GDjnkUvCED0OPw61Bvyo4wQOakMn7vcDg44PuK9WGKdOs4v1sedOE6Fdw5dO3rdDnYmQqSc5yfQ0zUR/xNLv/ru//oRpsZy3XOTyak1DnU7o/wDTZ/8A0I17eFrKrUk15fifc5LaMZ01bS2xUxXuFeI4r26sMy+z8/0Pq8N1CiiivJOsxvFn/Ir3f/AP/Q1rzavSvFn/ACLF3/wD/wBDWvNsV7OA/hP1/wAjjr/EJRS4oxXec4lFLijFACUUuKMUAJSH7pp2KQjg0pbMFueAePf+Sj+I/wDsKXP/AKNaufroPHv/ACUfxH/2FLn/ANGtXP1+v4L/AHWn/hX5ES3YUUUV1iCiiigDf0T/AJFXxN/1wt//AEetYFb+if8AIq+Jv+uFv/6PWsCuDC/xav8Ai/8AbYlPZBRRRXeSFFFFABXv/gD/AJJroX/XKf8A9KZa8Ar6A+H4/wCLZ6F/1yn/APSmWvk+Kf8Adaf+JfkzSHU3qWlxRivggEopcUYoASilxRigBK9W0f8A5Adj/wBe0f8A6CK8qxXquj/8gOx/69o//QRXm4/4YnTh92XK5/xn/wAgaL/r4H/oLV0Fc/4y/wCQPF/18D/0Fq4MP/FidFT4GcRijFLRXunAJijFLRQAmKRh8p+lOoP3T9KUn7rGtzwb4t/8lX13/rrH/wCikrja7P4uf8lX13/rrH/6KSuMr9cyr/caP+GP5IyluFFFAr0iQopcUvHFTzD0G0Uppy9OT+FLmuGh0Xw5/wCSmeHf+v8Aj/nXOSfff6n+ddJ8OgT8TPD+3r9vj5HOOa56QESPuXadxBX05rzKcl9fqL+7H85FO3KiKg04jHSk/lXp31JEopQM0H2pqV9gEoooqhAK7P4Sf8lX0P8A66yf+inrjK7L4R/8lX0L/rrJ/wCinrzc1/3Gt/hl+RUfiR7uv3RS4oH3RS1+Rx2RqJijFLRTEJijFLRQB23gz/kDS/8AXwf/AEFa6Cuf8G/8geX/AK+D/wCgrXQV4WI/iyO+n8KCiiisCwryLWh/xPtQ/wCvmT/0I167Xkmsj/ifX/8A18yf+hGvTy745HNiNkZ+KtQ/8g26H+3H/wCzVBirVugbT7rnGGQ/o1bZrJxwVVrseViub2E+Xs/yKKpvZ2J4U5oABjLeoJqZI9tmznPI3Z/D/E06OEbgp+6iBm/AdK/LVjFKCjd6v/gafK/9M+JpYdvkXV/rpovQrvEcKO+eaesZ4CjjPJpzqxK45Zj2/wA/WriQNGQijcQBk4/z3pVJyhVtH4mrJP7KWl99TuoYX94+VO/5EHl7PmP3gOg7f/XqKQ5PPX9F9hV66h+yqQw+dhhQex7n+n1zVDFfd5BhIexVa3ofUUMMqS2sNxSYp+KMV9WdIzFGKfijFADMUYp+KMUAMxRin4oxQAzFWbsfu7T/AK4D/wBCaocVZux+7tP+uA/9CaofxIfQp4oxT8UYqhDMUYp+KMUwGYoxT8UYoAZijFPxRigLDQPXpUwCuCGBYnoR1I/xqPFSQbRIBIcIep/unsa8vMcKsRSb6r+v67mVSkqkbMY6FI+RkY5I5zUDgr8ycitR42WM7xwSeB6jriqk6GNQwGVIx9cV+Vufs5yhBcrvpJdX1TZ8tjMLycySt2a/rYg2kMue9IAQpXrjn/P5VMFLhgOSvzA+o/zilCHz1IPBBNdNPG2nrPV+Xda/K6R5nsPfi4t779df+CMtUMs6xJ95nCgk8c1JduJb2eRc4eRmGfc0+yhY6xEuOsisPpmomHzt9TX1/DVV1Yzl00S/E9/IoShTnddUvuI8V7XXi+K9or2sx+z8/wBD63D9QoooryTqMbxV/wAizd/8A/8AQ1rznFej+Kf+Rauv+Af+hrXnNexgf4b9f8jjr/EJijFLRXeYCYoxS0UAJijFLRQAmKCOKWg9KmWzBdD588ff8lH8R/8AYUuf/RrVz9dB4+/5KP4j/wCwpc/+jWrn6/YcF/utP/CvyIluxwHIoI5P9Kv6PpF5rmpR2NhGZJZD6cKPU+1el2+meGfBsYjdF1jU9uXP/LJT6fX6V89nnE2CySKVZ803tFbvz8l5nThcHisdW9hhabnL8EvN7I8uh0y9njLwWk0ieqoarvG8bEOpUjqCMV7Anj+4jXbHpGnKvYGMnH61HJPo3jSM2GrWUNhfscW1xAAq7vQ/U++P518bhfEilUrKOIoOEX1unbzZ7OI4UzvC0nWqU4yS6Rd391tTgNFGPCviX/rhb/8Ao9awe5zzXTW1lNpmj+LLK6XbNbxwI49xcLW94U0fTdD0eHXdchNzdXIJs7QjA2j+JvY19hjc8wuV4ari6junJWS63jHY8SjQrYupGjh480pbL+uhwsWmX00fmQ2kzJ6hDiq8iNGxVwVYHkEV6+nxAuEXEekaaq9gIzx+tMbXdC1+NrbxFpMVsH4WezXBX8P8Oa+MoeJVN1bVsO4x7pp/h/ke/W4Qz2jTdR04yXaMtfxWp5DTTXV+K/Bc2gbb2zlF5pkxPlzoc7f9liOP89K5U9a/UcBjsPj6KxGHkpRfVHzGqbi1ZrddvISvoH4fD/i2ehf9c5//AEplr5+r6C+Hv/JM9C/65z/+lMteFxV/utP/ABL8mXA6DFGKWivghiYoxS0UAJijFLRQAmK9S0j/AJAlj/17x/8AoIry6vUdJ/5Atj/17x/+givOx/wo6KG7LlYHjH/kDxf9dx/6C1b9YHjD/kDxf9dx/wCgtXBh/wCLE6Knws4rFGKdijFe4cI3FGKdijFADcUEfKadikI4NTLZgtzwX4t/8lY13/rrH/6KSuMrs/i3x8V9d/66x/8AopK4yv17K/8AcKP+GP5IyluFKvWjHGaVYyxwASfQdq75SSRPqFbGi+GNR12TFnb/ACd3c4UfjXWeEvAUQs21jxORbWacIJBy59APWty/8Z/Z4Xs/DUAsbccebH8rOMY/DjtX5rxBxzQwMnh8Guea3fRHq5Xk2PzedsLG0P5nt8u5nWvwtsNPhE3iPVliAfa8EZCuB6gnOR+FMaw8F6ek8dvpkuoyDiOWaT5fqcYrLmnluZWkuHaV2+8zHk/jUef/AK1fluL4mzfGP95WaXaOn5an6dl/AeCoJPEylUfrZfcjr/AWp2Fl4p0uCPRrVGkuVXzIwflz3GSaydb1fTtZnEk+hWmV9QRk59iKPCHPjTRxgc3aZrIc/OfqelebLG4tpVPbTv8A4n/md0OF8q+tzh7LRJP77/5G2lj4I1HyUmsJtNG3960LZ59s5qG++FcN5b/avDGpJdwk8o5G5R7+lZGalt7ma1kD20rQsO6HFepg+KM4wbTp1nJdpa/juefjuA8FVvLDTcG/mvxOZ1bw/qOhybNQtZIvRuoNZn8P1r2G28WW2q2p0/xVbLcwsc/aVHzoR3x34yK5fxl4ENhE2q6ARdaU+CHi5259utfqvD/G2GzCaw+JXs5+ez9GfmWZ5TjspqcmKjePSS2+fZnCUUuKSv0ZST1PLCuz+Ef/ACVfQv8ArrJ/6KeuMrs/hH/yVfQv+uz/APop68/Nf9xrf4ZfkXD4ke8AfKKXFOA+UUYr8ijsjQbijFOxRimA3FGKdijFAHZ+Dv8AkDy/9dz/AOgrW/WB4P8A+QPL/wBdz/6Ctb9eHiP4sjup/CgooorAsK8n1j/kO3//AF8yf+hGvWK8p1gf8Ty+/wCvmT/0I16WX/FI5sRsihV6xXda3KkZBKZB/wCBVUxWlpK5juMDO3afyDGss/lbLKuttDhnFzXL3IRaPNZKv3QWUt2+X/8AVinNAXtV2EAycjnP8R/p/Kr8asLMqxVeDtz2I6fzFTCNPtDfKuyI4UDoNvGf/QhX4nh6k4z9p2u/mc1LLo+7JdUl/X9dTMt7dQ28r9wBSfSrVvhAbhvlwC5Y/wAJOcfljP5UbQI1QDHmHLAD1/8ArY/Ol1aVYLQW6riSUh2/2R2H6D8j717GCoTxuPjBJtTdtd1FdzsoYVU25voY9zObm4aQggdFHoOwqGn4oxX7ZSpwowVOCskrIbbbuxlFPxRitBDKKfijFADKKfijFADKKfijFADKs3X+rtf+uA/9CaocVYuh+7tf+uA/9CaofxIfRlSin4oxV3EMop+KMUAMop+KMUAMop+KMUAMop+KMUAa1jKt1ZGJgPNjHBPfHI/TI/Ko5LaN4Wi5IGGU1VsZxbXkcjEhc4YjsPX8ODWzeQiCZduMBvlA/unp+ROK/IuKMF9VxX7u9p+8vXX+vmKvQVelzW20ZjiJoZoQAWyNpx/n/OKZJbskkKopIDD14DDFaxgUmU/3iJFGOAOD/TH4mnNHulTDffDRYPOMHg/ka8DGYyc1Cbld7Xt/W3c4KmAc0rvqrf16mfbRL/bERBIIYflms9hhj9a3ljQakGQYw/HPTn/61YjD52+pr7rgublGrfX4f1LwlBUYyXmR17LXjuK9ir67MPs/P9D18P1CiiivKOoyPFP/ACLV1/wD/wBDWvO8V6L4o/5Fu6/4B/6GK88xXr4L+G/U5K/xDcUYp2KMV3GA3FGKdijFADcUYp2KMUANxRjinYoPT8KUtmPqfPHj3/ko/iP/ALClz/6NasADJroPHv8AyUbxJ/2FLn/0a1R+D9MTVPFFnDcD/R0bzZzt3YjT5jkfh+tfq0cRDC5cq89owT+5GTTbstzstOi/4Q/wvHBDhdW1OMSzyA/NBEeidMgnvz/Q1jHkknrVzVb99T1S4vJTzK5IGfur2A+gwPwqnX8x5hjquYYqeKrO8pfgui+R/QnD+UU8rwUaaXvPWT7v+tgoBwQfTnrRRXAfRPVWZt63a/2hDqF3sKNqljZGRs58xxcrGze2SvSo/FLj/hIJ4EIMdqFt48KFG1AB0H51uaJGmp2GnQSYCxmKFj6j7Wj/ANf1rltUcSatdupyDM+D+NfSZnjJ1svwsG9Ff8FGK/I/K+E8HGnnWKdvgul5Xk7fgirR2ooFfNn6o9ja0LVIo1l0vVPn0y9+SVT/AMsif4x6Ee1cF4g0ebQdcudOnB3Qt8p/vKeVP4jFdHUvjKAah4W0vWBlpYGNhO24ZJUbkOOv3e9fofAmbTwuP+pyfuVPwl0t6n5NxzlFOHLmNKNm3aXn2f6HC4r6D+Hn/JM9C/65z/8ApTLXz7619B/Dv/kmWh/9c5//AEplr9Q4p/3Sn/iX5M/NYbs6DFGKeRSYr4IY3FGKdijFADcUYp2KMUANxXqGk/8AIFsv+veP/wBBFeY4r07Sv+QNZf8AXvH/AOgivPx3wo6KG7LdYPi//kERf9dx/wCgtW9WD4v/AOQRF/13H/oLVwUP4sTep8LOM4o4pcUYr3DhE4o4pcUYoATig9DS4oI+U0pbMa3PAvi5/wAlX13/AK6x/wDopK40Cuy+Ln/JWNd/66x/+ikrjgpr9by26wNC38sfyMpaysHX04/WvRPBnhW3s9O/4STxFxAh/wBGgP3pW9Mev14HfqKyPAXhZdd1X7Re4WwtP3k7HowHOPf39q3vEetNrOpEoPKtYvkgiT7qqO/ufevzzjbiR4Zf2fhJWm/ia6Lt6s9/h7JJZziuWX8KPxPv5L9Ruua9da9debcfu4oxthgRjtjH07n3PJrLz9aTp9KMV+LqyP3vDYelhqapUVaK2QHrRRRUnYbPg/8A5HbR/wDr7Ssh/wDWH6mtfwf/AMjto/8A19pWQ/8ArD9TWz/hL1/yPNp/79U/wx/OQ2iiislud7vbQXgfWtfQvENxosxVQJrOXia3k5DA+3TPvWPR+WPeg48VhaOLoujXV09ybxr4StorZdf8P5ksLg/vI16wt349K4Xb1r1HwxqkdndPY3y+bYXg2Sxt0B7H8MmuS8a+GJfDGvPCozaSfPBKvKsp9D3xX7hwXxNLHQ+oYp/vIrR/zL/NH4DnuT1MnxbpPWEtYv8AT1Oa712Xwj/5KxoX/XZ//RT1xp+9XZfCP/krGhf9dn/9FPX3uaf7hW/wS/I8aPxHvgHy0cUo+7RivyOOxoJxRxS4oxTATijilxRigDsvCH/IIl/67n/0Fa3qwfCH/IIl/wCu5/8AQVrerw6/8WR3U/hQUUUViWFeV6uP+J5ff9fEn/oRr1SvLdXH/E6vv+viT/0I16OA+JnNiNkUcVraH8sV4cZ+VRz75FZmK07L5dHuSnytuwWGee4/KuTiVr+yqyfVfqThYc9aMSdHzZRKF4cKcn2I/wA/lUoi6EbQXPX/AHuc/wDoRqhH5m4oMs0Y2x7egyc0+4uEtZFAI2OhAOT/AHRz6+vHvX4xerSpNRfxX+f9LY95YV8yjHpr+BZiAlu95RsL8wJ6f7IP4fy9qxryXz7p2yCMkDH1/r1rVjaOTT5ZSwHRQ2cc7ePpwffrWPiv0LgrDR5amIe+y/4c8zHp02qfYZijFPxRiv0a55YzFGKfijFFwGYoxT8UYouAzFGKfijFFwGYoxT8UYouAzFWLofu7X/rgP8A0JqixU90P3dr/wBcR/6E1Q37yGtirijFPxRiruIZijFPxRii4DMUYp+KMUXAZijFPxRii4DMUYp+KMUXAZitm3c3WklTnMXf+ft05/OsnFaWjGRp2iV8JjdtPc/5zXzHFFBVculUVk4e9f8AM6sLK1RJ9SypIVnXaeCuQep+8OfrkU8EwAYK7VfcOO2xhn/x0VXSQWofDABV4GRk4bH/ANapJSnmxtIP3e3nP+ySOP8APrX49TqcydJK/W9tXpt9x7EsNZptd0SosZ1HBP3SrY9ycD+dc8w+dvrW3ZES3UZHBZk6/wCyyisiRQsrAHOCeRX6DwLKKo1YfaTX5Hl4vD+wdrdWRYr2CvIsV67X2eP+z8/0M8P1CiiivMOoyfE//IuXX/AP/QxXn+K9B8Tf8i7df8A/9DFef16+C/hv1/yOSv8AEJijFLRXaYCYoxS0UAJijFLRQAmKQjg/SnUHoaUtmNbnzr495+I/iP8A7Clz/wCjWrR8DosGna3flmR1t1t4iOmXb5h/3yDWd49/5KN4kx/0FLn/ANGtW3oDmD4dyJs4ur/O/HdE6f8Aj1fXcUYh0OG7J6yUV99v0uelk1BYjNKFJ9ZL8Nf0IaKKK/n0/pAKKKKAO78MQbfC8V0va9VQceksRribo5u5veRv516B4SXzfALqvVL3PHYZT/CvPZuZnOc5Y/zrtrzbw9KPbm/M+B4cVs4zBdpR/FNjKKKK4j74K0oY/tvg3xBZ4QlIFu1L9V8tuce+DWbWz4WjhudVltLpisV1bTRMR/uEj9QK7svryw+MpVo7qS/M+e4mw/1jKK8Otrr5anmRINfQnw6H/FstD/65z/8ApTLXz23ykgV9C/Dj/kmOh/8AXOf/ANKJa/oPiiSeDptfzL/0ln89w1OjxRinUlfBlCYoxS0UAJijFLRQAmK9L0r/AJA9l/17p/6CK81r0rSv+QPZ/wDXBP8A0EV5+O+FHRQ3ZbrC8Xf8gmL/AK7j/wBBat2sLxb/AMgmL/ruP/QWrhofxEb1PhZx2KMUtFe0cQmKMUtFACYpCOD9KdQehpS2Y0fP/wAXP+Ssa7/11j/9FJXIRxvNIkca7ncgKB3PpXX/ABcH/F2Nd/66x/8AopKr/D3Shqfiy381GaG3HnS7Byqg4z+ZFfqNLFRweTQxE9owT/A5qsnC7Suzt7yBPCvge00eFgLq+AkuMdQPRvoeK5OtrxXqTan4huZGYMqN5anAGVXgfyrFr+ZsTiamMrzxNTebb/r5H9BcMZZHLctp0vtPV+rCiiiuc+nCiiigDZ8H/wDI7aP/ANfaVkP/AKw/U1r+D/8AkdtH/wCvtKyH/wBYfqa2f8Jev+R5tP8A36p/hj+chtFFFYnooKBRRQMK6m+th4u8AyRr8+oaYuQT95kA7+wHA/CuW710Xgq/Fp4gSKRd8d1mJlzjJPQn6HBrswWMngcVTxVPeLv8uv4HyHFmWf2jlc1Fe/H3l6r/AIB5QQQSDkEdQe1dn8Ix/wAXY0H/AK6yf+inrK8ZaV/Y/iu+tVHyLJlSO4PP881q/CP/AJKxoP8A11f/ANFPX9M4rEQxWUzr09pQb+9H4LRmpqM0e/AfKKMUo+6KK/KkdL3ExRilopiExRilooA7Dwj/AMgmX/ruf/QVrdrC8Jf8gmX/AK7n/wBBWt2vFr/xGdtP4UFFFFYlhXmGrD/idXv/AF8Sf+hGvT68x1Uf8Tm9/wCviT/0I16GB+JnPX2RTxWhbI66Y+QwWSUKDt4wRjP+fSqGKsSXptNCk6keepHsApJ/qa5OIoylltRJJ7b+peXx5sTGJNbKW1QrvBBjycHGDwP8fyrM1Kcz6i+wsBkqOmB8x/Q8frVzT7iL+0GkcgfIrAZ6gM1YgkBu2YAbUVcjp91c/wAq/HqNKpTndq72/wCGPt6NNSqNvokaaSb7ZECgKGLA456+v0x+VGKSEh7aJgMZjUn3OKdiv3HLaMKGEhCmrK3/AA58Hipudecn3ExRilxRivQOcTFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExU90Pktv+uI/9CaocVYvB++T/AK5R/wDoC1D+JB0K2KMU7FJirATFGKXFGKAExRilxRigBMUYpcUYoATFGKXFGKAExUlvM9tMskbMmDzt6kUzFGKzqU41YOE1dMabTuiG+mH2mRkwN2SSx9v8Sa14plbSftLINqKxZc5PA6e3B/WsO+whbkEAKzHtzu/+JrS0k+bosgdxhlXIHuCD/wCgivwvM6NPD1Z0aeyk1fyPu1F1MNTqS8rlyxVknt9wOWcAf99j/wCJrMcDzGwMcnHtV3S7mOS7sUuCCWZcH36/1NVpiGmYogRc/dHavtuCk406qae6Pns4jaom/MixXrVeTYr1mvr8d9n5/oebQ6hRRRXmnSZXiX/kXbn/AIB/6GK4HFd94k/5F+5/4D/6GK4PFetgv4b9TkrfENxRinYoxXbcxG4oxTsUYouA3FGKdijFFwG4pCKfigiplsxrc+cPHp/4uP4k/wCwpc/+jWrpYI2g+Heix7gUaeaXj1OK5rx7/wAlH8R/9hS5/wDRrV2N/Ett4H8NRod3mwPNn05xj9K9njmo45Fhorq4/hFnv8Kxcs7o26Xf4P8AzMSiiivxQ/oIKKKKAPTPBJ8zwHdoB92Vyfp8teZnrXpvgJQPBV+WxhjIOfoteZEY49OK0k7wivX82fC8PW/tnMf8UPyYUUUVmfdBWt4WtzdeKLCAH/WShfzrJrW8LTm38V6ZKF37blDjPvRzOPvLoefmcXLA1kv5ZfkzgNYthZ61eWy/dhndB9AxFe9/Dj/kmOhf7k//AKUS14d4pQL4q1Lacg3Dnp6nNe5fDYf8Ww0L/cn/APSiWv6Iz2fPleHl3cf/AEln80UPh+R0mKMU7FGK+KNRuKMU7FGKdwG4oxTsUYouA3FekaX/AMgez/64J/6CK85xXo2mf8giz/64J/6CK4Mb8KN6O7LdYfiz/kExf9dx/wCgtW3WH4r/AOQVH/12H/oLVw0P4iN5/CzkaKXFGK9k4xKKXFGKAEpD0NOxSHofpSezBbnz98XP+Ssa9/12j/8ARSVufCpGsNG1zWI8CS3iCrnurcEfqKw/i5/yVnXv+u0f/opK3vDcb2nwpubhMqLqcwN785/pX1HE9aVLhWHLu4wX32ua4Gh9YzCjS7zX4O/6GI7b3Ldyc0naiivwnpY/peKSSsFFFFI0CiiigDZ8H/8AI7aP/wBfaVkP/rD9TWv4P/5HbR/+vtKyH/1h+prZ/wAJev8AkebT/wB+qf4Y/nIbRRRWJ6KCiiigYVLbStBdRzIdrIwYEduaipabV0Yzp88HF9TQ+LcER1Gwv7WMrDNbqgPXJHJOfxrM+Eg/4uzoP/XV/wD0U9a/xEkE/gPws/O5Y5N3ud2P6VkfCP8A5K1oX/XV/wD0U9fv3D9Z1uFW30hJfddH8y1afssVUp9pyXyuz6AUfKKWlA+UUYr49bB1EopcUYpgJRS4oxQB13hP/kEy/wDXc/8AoK1uVheFP+QVJ/12P/oK1uV41f8AiM7IfChaKSisSxa801Uf8Ti9/wCvh/8A0I16VXm+qD/icXn/AF3f/wBCNehgfiZz19kUsUzUio0F+x81h9f3bVLiqXiB3i8O7lOCLjH4eW1c+fK+An266/1c7Moi5Y2CM2OfyiWjyrR24XI93Un+ZrPE5SS4SIkKcrkn/YbH/oNMaZ5HkzxsBA9/kBz+tQoomcxtyJZEU/7JLbQf/Hj+dfm1Gm5VYxb9D9J9nGEZyfkdsFCgBQAAMAelGKfikxX7ItrH5C9XcbijFOxRimIbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKnux++X/rlH/6AtRYqe7H75f+uUf/AKAKh/EhlbFGKdijFWIbijFOxRigBuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAsZOoyJDcyvMcIYowf++z/AEqvZaiyac6L95yq5z2LN1/CjxCjSX1lDzslDB8em5KyLCVm2/8AXISYx3UMf6V+W55Tax82uv8AkfpeVUoTy6Mn6/c2v0Ol0xzL4i04A5UHjB7BVq+w+c4wRntWF4ccjWrBcdnX6fJW9ivb4TuoVF6flY+d4jpqFWEey/VjcV6tXleK9Tr6XHfZ+f6Hz9DqLRSUV5p0mX4j/wCRfuf+A/8AoQrha7vxF/yALn/gP/oQrhcV6uD/AIb9TlrfEJRS4oxXYYCUUuKMUAJRS4oxQAlIRTsUEcGk9mNbnzd49/5KP4j/AOwrc/8Ao1q7jXW3eDfCowB/obHgf7RrhvHv/JR/En/YUuf/AEa1dvrnHhDwsvIxZNwf9816nHf/ACJ8J6r/ANJPpOEdc8p+kv0Oeooor8aP30KKKKAPTfBHHgO4IOf9IfI9vkrzST/Wv/vGvTPh98/g++Q9MyfyWvMT1q5O8Yr1/NnwfD0Ws6zH/FD8mFFFFQfeBWj4ebZ4j087gv8ApCDJ7c1nVd0c7dbsie06fzFRP4GceO1wlX/C/wAjl/GDFvFl+SNp808V7f8ADYf8Ww0L/cn/APSiWvEvGiGPxlqSntL2+gr2/wCGgz8L9D/3J/8A0olr+hs4/wCRPhv+3f8A0ln8yUPh+R0tFLijFfHGolFLijFACUUuKMUAJXommf8AIJtP+uCf+givPMV6Hpn/ACCbT/rgn/oIrgxnwo6KO7LVYnir/kFx/wDXYf8AoLVt1i+KedLj/wCuw/8AQWrjo/xEbT+FnI4oxTsUYr2LnGNxRinYoxRcBuKCPlP0p2KQj5TSb0YLc+evi7/yVrXf+uqf+ikrptIH/Fkoj/1EW/ka5n4u/wDJWde/67J/6KSum0j/AJIjH/2EW/ka+g4s/wCSYo+kP0PSyT/kb0P8X6M5yiiivxI/oywUUUUigooooA2fB/8AyO2j/wDX2lZD/wCsP1Na/g//AJHbR/8Ar7Ssh/8AWH6mtn/CXr/kebT/AN+qf4Y/nIbRRRWJ6KCiiigYUUUUAXvGwz4F8P8AOeH4/Gs74R/8la0H/rtJ/wCinrQ8cf8AIieH/o/86z/hF/yVvQf+uz/+inr914XX/GJy9Kn5s/mjMP8AkY1v8b/M+hB90UYpwoxXzFzn8xuKMU7FGKdxDcUYp2KMUXA6vwr/AMguT/rsf/QVrbrF8LcaXJ/12P8A6CtbVePW/iM7IfCgooorEsK851Mf8Te8/wCu7/8AoRr0avO9TH/E2u/+u7/+hGu/BfEzCtsiniszxPH/AMUy5GP+PjnP/XNq1cVn+JI2k8NhFOC1zt4GesbU8zhGphZKR1ZTJxxsGv60OYu4zHaycdHCkj/aXB/lTLVpJ76OJUUMboEDOOA0f9F/Wo7+cytxt2iVQWHTO0//AF6s6Q1uNYh3Ni4kkO0diNy5/wA/WvhaNPnxsVB2Wn5n6NVk4YKU5K7s3+HU7PFGKdijFfph+TDcUYp2KMUXAbijFOxRii4DcUYp2KMUXAbijFOxRii4DcUYp2KMUXAbip7v/XL/ANco/wD0AVFip7sfvl/65R/+gCofxIfQrYoxTsUYq7iG4oxTsUYouA3FGKdijFFwG4oxTsUYouA3FGKdijFFwG4oxTsUYouBga+THqOnyDopIP8A32n+FYVhIN0YUY/cMCceisK6DxSMWtu2QCsoIz9VH9a5m0mWK5jAPOx1Y+mVavzvOqb/ALQu9nbX5H6Vkvv5ZZLVJ/mzb8PuV8TWcYHKhjn1yhH9K6RQ2wbsZxziuf8ADrh/FNoU6eWO3+y9dGBwK+gyGiqdObi9Gz5viKblXgmvsobivUK8xxXp1enjfs/M8Gj1CiiivOOgzPEX/IBuP+A/+hCuHruPEP8AyAbj/gP/AKEK4nFepg/4b9TlrfENop2KMV13MRtFOxRii4DaKdijFFwG0Y607FBHB+lJvRjW580+Pf8AkpHiP/sK3P8A6Nau311SPCXhU793+gt/6Ga4nx7/AMlI8R/9hS5/9GtXZ6sg/wCEN8MODnFmUPPfcT/WvX47/wCRNhX5r/0ln0XCLSzylftL8jBooor8ZP34KKKB1oE9j074eH/ik73PTc/T0wP/AK1eZMME/Wu68Ga9Zad4U1ZLvzN8QDKqrw4chevbkD864Q+/Wkotf15s+SybDVqWaY6rONoylGz72X/BCiiimfXBV7RATr1iFHJuEx+YqjWn4bjMvibT1Gcm4Tp9c/0qJ/Czix7thKr/ALr/ACOS8ZMr+MNRZG3Ay9ffAzXuHwz/AOSX6H/uT/8ApRLXh3i8KPF2pBcYExHFe5/DL/kl+h/7k/8A6US1/Q2caZPhv+3f/SWfzNQ+H5HTUU7FGK+MuajaKdijFFwG0U7FGKLgNr0HTf8AkE2n/XBP/QRXAYr0DTf+QVaf9cU/9BFcWM+FG9HdlmsXxR/yC4/+uw/9BatqsbxP/wAgyP8A67D/ANBNcVH+Ijafws5PFGKdRXsHGNxRinUUANxQRxTqQ9KT2Y0fPHxd/wCSs69/12T/ANFJXS6R/wAkRj/7CLfyNc18Xf8AkrWvf9do/wD0UldJpH/JEYv+wi38jX0PFn/JMUvSH6Ho5J/yN6H+L9Gc7RRRX4if0agooooGFFFFAGz4P/5HbR/+vtKyH/1h+prX8H/8jto//X2lZD/6w/U1s/4S9f8AI82n/v1T/DH85DaKKKxPRQUUUUDCiiigC744/wCRD8P/AEf+dUPhF/yVrQf+uz/+inq/44/5EPw/9H/nWf8ACL/krWhf9dn/APRT1+7cL/8AJJz9Kn6n80Zh/wAjGt/jf5n0OBwKMUoHApa+WRz9BuKMU6imIbijFOooA6nwv/yC5P8Arsf/AEFa2qxvDH/IMk/67H/0EVs149b+Izsh8KCiiisiwrz3Uh/xNbv/AK7v/wChGvQq4DUh/wATS7/67P8A+hGu7B/EzCtsinisrXbtF0yKJlZW+2gckD+A+/uK2MVz/jKB00uxmiwxe+Aw7kYIUYA9Byc1GaynHDOUD0MlpwqY2EZdf8jjbyR7p7aRMrFJOQwJHBJwP5GtLSJI/wC3FhEm8wagVDHsvzAc/hXOeeyTKN2FWVWxnjIJq34fiNz4kgJI2tcANwD13Hof89K+Mw9VOupJatr+vvP1PFYVRwklJ2UYyseq4oxRFCkMSRxKFRBtVR2FPxX6MnpqfirST0GYoxT8UYp3EMxRin4oxRcBmKMU/FGKLgMxRin4oxRcBmKMU/FGKLgMxU10P3y/9c4//QBTMVLdD98v/XNP/QBUt+8h9CvijFPxRiquIZijFPxRii4DMUYp+KMUXAZijFPxRii4DMUYp+KMUXAZijFPxSYouBzfjBylrZL/AM9blUyD05Bz+lcnNm0meZkVlXaNueoYMM/oa3fHYureG3l852QT748quEIA9s8e+etc1c3YltQhJZ2CZJx/CX9PqK+GzeUJV5Kas1t93+Z+q8P0JLBU3HVSvf7/API6zwsI18RWBj4DRBue2Vc4/WupA4FcB4Vka58QaciBfMAxgfxbVbHbjiu/hjEcKKqhAB90HgV6+RVOanJJaJny3E9H2eJjzPW36sXFel15vivSK9PGfZ+Z83R6hRRRXnm5m+IOdDuP+A/+hCuKxXa69/yA7j/gP/oQrjMV6WE+B+pzVviG4oxTsUYrrMRuKMU7FGKAG4oxTsUYoAbikPQ/Sn4pMdaHsxrc+Z/Hv/JR/En/AGFLn/0a1dZLIZ/h9oMjYO1pI849AP8AGuS8ff8AJSPEn/YUuf8A0a1dXGP+LZaH/wBfE38lr3OOY3yLDPzj/wCks9rhjTPKFu7/APSWZVFFFfip/QoUCigUAzr/AAv4bk1Xwnr10lwke1EUKRk5Vg/PtgYzXIdRW7o0N4/hvXWtlmMYihBKZx/rRnP4VhZzTfN1d/0PJwXP9Yr3ldcy07e6gooopHrBW74JGfGmlnGcTgmsKtzwaceLrH/fP8jS3PMzd2y+u1/JL8mcJ4pbf4s1PAx/pLj8jivePhj/AMku0T/cn/8ASiWvAvEBJ8SaiSeTcyH/AMeNe/fDAZ+Fuh/7s/8A6US1/ROfrlyrDrzj/wCks/mrDfAvQ6jFGKdijFfCnQNxRinYoxQA3FGKdijFADcV3unf8gu1/wCuKf8AoIrhMV3en/8AILtf+uKf+giuLF/CjejuyzmsfxNzpkf/AF2H8jWxWP4l/wCQbH/12H8jXJR/iI1n8LOWxRilxRivXOQTFGKXFGKAExSEcGnYpGHyn6UPZjPnb4u/8la17/rtH/6KSuj0lv8Aiy8SeuoMf0Nc38Xf+Sta9/12j/8ARSV0elf8kah/6/2r6Hiz/kmKXpD9DuyV2zfD/wCL9Gc/RRRX4if0egooooGFFFFAGz4P/wCR20f/AK+0rIf/AFh+prX8H/8AI7aP/wBfaVkP/rD9TWz/AIS9f8jzaf8Av1T/AAx/OQ2iiisT0UFFFFAwooooAu+OP+RD8P8A0f8AnWf8Iv8AkrWhf9dn/wDRT1oeOP8AkQ/D/wBH/nWf8Iv+StaF/wBdn/8ART1+7cL/APJJz9Kn6n80Zh/yMa3+N/mfRIHyj6UuKB0H0pcV8qtjn6CYoxS4oxTATFGKXFGKAOo8M8aZJ/12P8hWxmsfw1/yDZP+ux/kK2K8it/EZ1w+FBmjNFFZFhmuC1Ef8TS6/wCuz/8AoRrva4XUB/xM7r/rs/8AM124T4mY1dkVMVy/jEs+n2INsoP21tzbjuIVU5z2BGOnpXVYrlvHVsxsLCQpHg3hGSpwflUfM3bp09KyzZN4Z2PW4faWPhf+tDggg3B2iYfMx2nIyoySc9scVe0JJDrVrNNE8itcJgDAztUkdSMcY69aSPTxmKWeF4yGOIyDn7jMDt/4COO9WdNWGHWrV57ZkInjYxoudysnGeeScZA7ZNfKUaLhUTemq/Q/S8RiFUoyS1vF/r5/ielQSrcQLKqsoYZAYc1JinYoxX36vbU/F3a+g3FGKdijFMQ3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcVNcj96v8A1zT/ANAFR4qe7H+lyDsDgewA4qftIFsVsUYp2KMVQDcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQBxvjySTyYYY2Lo6MzRqB2Zec9e449q4iGIuiHd8ufnbbwgB5+vHNdf4001Y7yCS0aGFArvKu0ZBLKM475JHH1Nc1DZ3DQC9gij+RcupGVxuA3cHnnAP418NmcJVMVK6/rQ/XMhnTpZdTUZLX5a67mn4Lfy/FVgySorFX5YZCnawGa9HiIeFGDK+VB3L0PuK868Eu8/iS1QoyxrGcGOIt2PPHuM5HcV6THGqRKqDaqqAB6CvWyGLVKVtrny3Fzvioc29v1YmK9FzXnmK9Dr1MZ9k+To9QzRRRXCbmdrv/IFn/wCA/wDoQrjsV2Ou/wDIFn/4D/6EK4/Felhfgfqc1X4hMUYpcUYrqMhMUYpcUYoATFGKXFGKAExSGnYoI4oezBbnzF4+/wCSkeJP+wpc/wDo1q6tML8NdDXv58zYz6ha5Xx7/wAlH8Sf9hS5/wDRrV1Fq4uPhhpUmf3kN1LGRj+HAxX0HHCbyDDtd4f+ks9jhqSjneHb7v8A9JZmUUdKs2Wn3Wo3HlWMDzyeirnA96/Enpqf0FOtCnFzm7Jd9CtRW7PpOk6LCJPEmrxxS4P+iWxDyHgEcjIxg9cGqcninwVaOHtNL1C8Iz8lzIoVuPUH+le3g8gzTHRU8PQk499l+Nj4/F8bZTh5OEJObX8quvv2/E6zwfFrqeEdZisIovJu0XyvNPLHeFOPwJ5PGRXCyxPDI0UqlHQ7WU9j6U9vFd9rWl6/efLaLbwW3kRQcLFi4Xp7/lVgePtG1eNW8SaQ4u/47qyOGk9yCcZ/Ovcr8EZnTpe0pRU5bSS3Wie7eu58rl/GsKWLqTxFK0Ju6tq1bTXXXTt1KNFbFtN4O1lvK0/ULvTZ2ICLfBWVj9RjA/Go9S8PajpaebcQb7cnieIh0PtkdOo4PrXyuMy/FYGfJiqbg/NafJ7P5H3mXcTZZmMuSjU97s9H9zMutvwcN3i2wU/xOV/EgisWt3wXG7+K7Z48boFeYZ77ULf0rjtfY7M4mll1dvbkl+TPPvESlPE2pKwwRcvn869++F//ACS3Q/8Adn/9KJa+fdau/tuu3tzjAlndh7DNfQfwuH/FrdE/3Z//AEolr+iOIbrLKCfeP/pLP5vwytBLyOqxRilxRivgzcTFGKXFGKBiYoxS4oxQAmK7nT/+QZa/9cU/kK4fFdzp/wDyDbb/AK4p/IVx4v4UbUd2WKx/En/INj/66j+RrYrI8Sf8g2P/AK6j+Rrko/xEbT+FnMYoxS0V6pyCYoxS0UAJikI4NOpD0NJ7MZ85/F7/AJK1r3/XZP8A0UldFpX/ACRqH/r/AGrnfi9/yVvXv+uyf+ikrotJ/wCSMw/9f7V9JxX/AMkvS9IfoduTf8jfD/4v0Zz4ooor8RP6PQUUUUDCiiigDZ8H/wDI7aP/ANfaVkP/AKw/U1r+D/8AkdtH/wCvtKyH/wBYfqa2f8Jev+R5tP8A36p/hj+chtFFFYnooKKKKBhRRRQBd8cf8iJ4f+j/APoVUPhD/wAlb0H/AK7P/wCinq/44/5ETw/9H/8AQjVD4Q/8lc0H/rs//op6/duF/wDkk5+lT9T+acw/5GNb/G/zPosdB9KXFAHA+lLXyhz9BMUYpaKAExRilooA6Xw3/wAg2T/rqf5Ctisjw3/yDZP+up/kK168qt/EZ1w+FBRRRWRQVw2oD/iZXP8A12f+Zrua4m/H/Eyuf+urfzNdmE+JmNXYqYrk/GVzeRW9hDLLCUe6kdY/LzkAIBjuTyfTn2rr8VieLtg0u282NmU+aPl6jLRDOe3fmlmMXKg7Ox6OS1FDGwvG+/5HBz3UtxPG0xjMi7QoTeo4iIx7ntwetXtCtTJr1lOkMkcguEV08zcMLHncfzz7Vl3Jwxlt9077gASNu04+YcN0yMZ+lT6PJqEmqRrbRky+cNqrM3zfu8EEhsgY6n/CvmoS/e+9rqj9Cq039V9xqK5Wu36o9TxRim20Bgt1jaRpSvV3JJP5/wCelS4r7VO6uz8mkkm0ncZijFPxRincQzFGKfijFFwGYoxT8UYouAzFGKfijFFwGYoxT8UYouAzHFTXY/0yX/ephHBqa6H+ly/71Rf3g6FbFGKfijFXcBmKMU/FGKLgMxRin4oxRcBmKMU/FGKLgMxRin4oxRcBmKMU/FGKVwOM8b6c04WW2CiXy9zbhndh0UdenX9K5fStRMKzx5jAUEkRxk+ZmVT8uD1z046Ctnxf4gmS9jtZbf7NLGvzDeWDAkH0HHyiudeSbWryNrWIK6pjEYIDkOW5Pbg/y718djqsPrMpUnqfquT4WqsBCFde5q79v+HX3HQ+FtQ06PxJZTCKckQsuwBQoO5sEc9Old9E4lhSRQwDAEB1Kn8QelcX4Q0dW1i3ub5cyvayOUySAf3i85+ldzivZypVFCTlZXPj+IpUXiIxptuy3+b/AKuMxXoNcDiu+rrxf2TwKXUKKKK4Tcz9c/5A0/8AwH/0IVyGK6/W/wDkDz/8B/8AQhXJYr0cL8D9Tnq/ENxRinYoxXVcyG4oxTsUYouA3FGKdijFFwG4pCPlNPxQRxQ9mHU+YPH3/JRvEn/YVuf/AEa1bvhvxfoum+EItP1aye6lt7hnjjH3Tu6k/T096wvHv/JR/En/AGFbn/0a1VNUe2OmaetvZmBghLzE/wCtNfp+Jy3DZngKOFxMW4tRfbZHLKpOnVjOm3GSejW6O5u73wVZsL03txdRy/OljCOY+nysx7fyrA1f4g31zG1roscek2X9y3GHf/ebr2rjqK48t4LyrL5+1jFzktnLW3y2O3F5ljcdFRxdVzS6Pb7lv8yR5GlkaSRizscsxPJNMNJRX2KikrI4fI39F/5FXxN/1wt//R61gg+1b2if8ir4m/64W/8A6PWsCuHDL97W/wAX/tsS3sh3FbWheLtX0CQCwuiYdu1reX5o2Gc4waw6K3xGEo4mm6VaKlF9GRo3dnpNr4g8L6+qLfxtol4eDJCu6Fz6kfw9+laFv4u8I6JftDbQyzvBEwF6hOJGZSp4+h4+leTVd0h449Vt2ntxcoH5iJ+97dDXxFTgPJ41XXUZeUb6f5/iehWzfMqmGeHlXlyW2/S+9vUrSPvmZ8dWJxX0f8LRn4W6Jn+7P/6US1876kY21O4MMP2dN52x/wB0elfRXwt5+Feif7s//pRJXVxOksDSt/MvyZyUHdfI6rFGKdijFfn99TYbijFOxRii4DcUYp2KMUXAbiu3sP8AkG23/XFP5CuKxXa2J/4l1t/1yX+QrjxXwo2pblisjxH/AMg6P/rqP5GtbNZXiLnT0/66j+Rrlo/xEaz+FnM0U7FGK9U5BtFOxRigBtIehp+KQjg0ugHzh8Xv+Sta9/12T/0UldFpP/JGYf8Ar/aud+L3/JWte/67J/6KSuh0n/kjMP8A1/tX0vFf/JL0vSH6Hdkv/I3w/wDi/RmBRRRX4gf0egooooGFFFFAGz4P/wCR20f/AK+0rIf/AFh+prX8H/8AI7aP/wBfaVkP/rD9TWz/AIS9f8jzaf8Av1T/AAx/OQ2iiisT0UFFFFAwooooAu+OP+RE8P8A0f8A9Cqh8If+St6D/wBdn/8ART1f8b/8iL4f+j/+hVQ+EP8AyVvQf+uz/wDop6/deFv+STn6VPzZ/NGYf8jGt/jl+Z9GgfKPpS0q/dH0pcV8oYDaKdijFMBtFOxRigDo/Dn/ACDpP+up/kK16yfDvGnv/wBdT/IVq5ryq38RnXD4ULRSZozWRQtcXfD/AImNz/11b+Zrs81x18P+Jhcf9dW/nXXhfiZjV2K2K4rxzpEptbJ4dz5nmkdmYn5D5fB+nHHTGK7fFc54n1exS2tlE+WR5YztUkBswnGQMdKnMYwnQamz1MkqVaeMjKmr/LyPN7WwhDTbJIpPLIJDqSWAOem0kHjHXmtXw5qlrp2spK6xKqyEyMqkEKY8cADnvxWfMPLMX2S2SSNuGIhMeGJYA56sBn8CB6CtPwpZS3Wvw/8ALqEn3MV5GRGSCvGM9Sef4ulfNUE41VGG90fouMlGeGnOs7qz/wAvX8Ox6bDLFcQrJBIrowyGU5FSYoihSGJY4l2ovQf5707Ffapu2u5+QytzPl2G4oxTsUYpkjcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUDGkcGpbof6XJ/vUwipbof6VJ/vVH2g6EGKMU7FGKsQ3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KCuVI6ZHX0pDOH8dw2U95apOxikET4lWPdj+6Ccc8jGO2a4cQ3MLO1mscyeZuBVNxxkEc4HHT2rX8Z6ZLZ695Su53QGUu+W8zrk55IJ2854z0rLu5ntFFpZbWMZfjyyr42gFj+WfbnPpXxeNmp15uStY/XsnpeywdKFOXOn0e1jX8FapcRa0sUSw7xazIjNGWJ+RmA4Izz/ACr1GHzTChuFVZSo3qhyAe+DXJ+B7C2guYniiUPi4w5XDf6v35HSuxxXu5VTnCl78rnw/EmIpVsX+6ja353Y3Fd3XDYruM114rofP0uotFJmiuI2KGtf8gef/gP/AKEK5PFdZrP/ACCZv+A/+hCuWxXoYb4H6nPV3GYoxT8UYrqMhmKMU/FGKAGYoxT8UYoAZigjj8KfikxSbH1Plzx7/wAlI8SY/wCgpc/+jWrGmZtsaGXzFCggf3fauq8QaYNY+MmtWLSiFZ9XuVLsen71v1rI8U2Gn6Xr8tnpchlhiwGZiD82OeRX6/g8TDlpUPtcie2lrdzz51Y+39l13MXFJitTR/D2p6/c+TpVo07dz0VfqTwK2NS+HXiHTLGS7kt0liiH7zypAxT8Op+taVs2wVCtGhVqxU3sm9X8i3KKV7nJ0UYor1Rm/on/ACKvib/rhb/+j1rArf0T/kVfE3/XC3/9HrWAK4ML/Fq/4v8A22JT2QUYorZ0HwtqviN3GmQB1j++7sFUde5+hrfE4mlhaTrVpKMVu3siG0tzHwafEzRyBlcoQcgjtXQ6x4E1zSLb7VLbiaD/AJ6QNu2+5HUCucAwRu4Geaww2Ow2Npe0w81OPdO4aPQfKczMS/mHru9a+kfhYP8Ai1ei/wC7P/6USV4t4q8O6bpumWGoaReCWK6X5oywJVscn/8AXXtXwrH/ABarRPpP/wClElfJ8R4iGIy+nOG3P6bKRWErRrR547f5HWEcmkxT8cmjFfBHUMxRin4oxTAZijFPxRigBmK7Ox/5B9t/1yX+Qrj8V2Fj/wAg+3/65L/KuPFbI2pbk9ZfiD/kHp/11H8jWpWX4g/5B6f9dR/I1zUvjRrP4Wc5ijFOxRivUOUbijFOxRigBuKCOKdikI4NLoB82/F7/krevf8AXdP/AEUldDpP/JGYf+v9q574vf8AJW9e/wCu6f8AopK6HSj/AMWZh9r58/jX03Ff/JL0vSH6Hdkv/I3of4v0ZgUUd6K/ED+jkwooooGFFFFAGz4P/wCR20f/AK+0rIf/AFh+prX8H/8AI7aP/wBfaVkP/rD9TWz/AIS9f8jzaf8Av1T/AAx/OQ2iiisT0UFFFFAwooNFAGj48AHgHwzjvHIT/wB9Gsz4Q/8AJWtB/wCuz/8Aop60/Huf+EA8Mn/pm/8A6EazPhD/AMlb0D/rs/8A6Kev3Xhb/klJ+lT82fzNj3fMKz/vy/M+kB0/ClxSr0/ClxXyZDG4oxTsUYpiG4oxTsUYoA6Hw/8A8g9/+up/kK1Ky/D/APyD3/66n+QrUry6vxs6ofCgooorIoK5G9H+n3H/AF1b+dddXJ3g/wBOn/66N/OurDbsyqbFfHvXIeNdCS7j0yK2WGNGmlJG3ByTHkA44B/mfwrscVxnjPXJ7W106YWbRBPMfdKc7W3quDjjjaDjPOajMPZ+wamepkarfXY+x3/4c8/uo41ijlkilxvEYVVC9ycZx3Gfxx6VueF9QTT9WgVYVDGblWlKBd0RwTkEDuc96wrq8urto4nikiEeAwVQC3zE59zzx+NaHhjRvtniOK3uYHVm+eNmIIT5WO4jucgEA8cHPFfMUZv269n5H6XiqMPqTWIeybtf/hj1y0le4tUllhMDNzsJzjnjsOo56VNilC4UAknHc9/elxX2yvbU/G5W5nZWG4oxTsUYpkjcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUAMI4NTXQ/wBKk/3qZjipbof6VJ/vVPUfQgxRinYoxVCG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoAbikJCgsTgAZJ9KfijbkH6UXGeaeN9QtLvUilvPGzPZKq+YpGSSxGM45wRg+uK4xoES4n2P5iRkruZgpPON2PTnP+c10PjuCS18RzF1MSeWvlJ5n8IJCkcdO+B06Vh201r57SSl1UowKjH0HAAz1P069q+IxknPESUz9nymn7DAQlSu01/kdF4Lh1C61zbHNdGIpPskMjBD+7POR3yVP0r1ONCkSKzlyqgFm6t71xXg7WdKbU2hs3MEEf2h1DqVVE2/Lkngf/WNdwMEAjkHoR3r6LK4RjS0lc/PuJK1SpirThy6bW83YTFdpXG4rsq6cT0PnqXUKKKK5DYpax/yCZv+A/8AoQrlq6nWP+QVN/wH/wBCFcxiu/DfAYVNxtFOxRium5kNop2KMUXAbRTsUYouA2jFOxRSYdT5z1PRbfXfjB4jtLu8FpENRu3MhIHSVuBmsfSfDcOreOBo9pciW184r9ozjcgPUfyrU1m20+7+MmuxavN5Fq2q3JZs4yfNbA/OqNlq9r4X8fte6ZG0tjDMVEcgyWQ9fT6j6Cv05yxKw0o4dvm9knFW0vbv3PJnKX1icU3tfy+/udNqWsmKOTStHUWWmREoIohgy443OepJ60zX71vB/hOG0tMJqOrxbp5O8cPZQO2c81rx+G7T+0xqrXcD6G3+kCXzMsw6hMdc54+ntXHeMrHX9Xu7jxBeWE0dkxxEWH3I+i8enFfknCeXPF5qsRjnZQevNo5T6LXdrc+/4hzbL44Kjl+WtKMkpSt+Cfnff8Tjc0lFFf0OfFG/on/Iq+Jv+uFv/wCj1rArf0T/AJFXxN/1wt//AEetYFcGG/i1f8X/ALbEt9ArrfAWsra6sdKviG07UsRToxwAcggg9uQK5OtLRdC1HXLh4tKt2mdF3tg4CjPc1lm2Gw+KwVSjircjWt9Led/IhzdO04y5Wtn2fQ717i/8J65cW9lOVEb4ww+WVCOCy+4PSsjxvpFpLpdn4i0u3FtFcuY7iFR8scg6Y9j/AIV1Elpd+KtPh81Vi1yyHk3UErgNIM8Pz1I79f0rnPHupw2em2vheycSi0czXUoOVaU9cfTpX4hwnh8wwmeKhC9lfmf2XHo+zv0Ps88zPL80yzD4lW+s3Sdt9Piv5djH1Hw7ZW3g6y1e21FJppSFkgyMoTnt14r3L4Uj/i1WifS4/wDR8leIa1aaGnhPTbjT5mW/cYmiZs59TivcPhR/ySnRPpcf+j5K/Qc+nKeXxcm3+8e6t0kfD4CUpRk5N7vfTqdbiinYoxXxB6I2inYoxRcBtFOxRii4Da7Cy/5B9v8A9cl/lXI4rrrL/jwt/wDrkv8AKuTE7I1pbk1Zmv8A/Hgn/XUfyNadZmvf8eCf9dR/I1zUvjRrP4Wc9RS0V6hyiUUtFACUh6GnUh6Gl0A+a/i//wAlc17/AK7p/wCikrc0L5vhG6nPy3ZYVifF/wD5K5r/AP13T/0Ulbvg5Be/Da+i+8tsWd8fw5YYJr6fitP/AFWpNdofob5bP2eZ0H/fRh96KOv1or8RP6U5kFFB4opDugooooC6Nnwf/wAjto//AF9pWQ/+sP1Na/hD/kddHP8A09pWQ3LsR6n+dbP+EvV/oedD/fan+GP5yG0UYorE9FBRSUtA7oKPrRR29KCW0ka3xCiaL4f+Fw38UTkf99Gsf4Q/8lc0DH/PZ/8A0U9bvxMdE8GeHLYkCWGNgU7jPOf1rC+EI/4u5oH/AF2f/wBFPX7vw0nHhOV+0/1P5kxUlPHVmv55fmfSYGB+FLQBwPpS18hcGtRKKWimAlFLRQB0Ggf8eD/9dT/IVp1maD/x4P8A9dT/ACFadeXV+NnVH4UFFFFZlBXLXg/06f8A66N/Ouprl7sf6bP/ANdG/nXTh92ZVNiDFcx400u1vrjR/tIP8Q68cOMcHj+I11GK80+IdveeZZfa598otpCpjU4/1vpk4BHPAyNvpWeYzUaDurnr5DSdTGx5Z8r/AM0cvdW6LDEIZvMlkIDRJC2XO48L68Y9ME/nb8Mwp/a8cN3btMsjoCFC7lyHIX5iOo754H4VFDZywQeY6T4eUFWij+8ey7mAIxgn0OfanaE9sniW2k1VJmt9qyqFcEkqp7A4wW7dfzNfNQ0qxlax+j1XzYapTTukn6v0PY7OZbm0jlSJ4UYfKjgAgDgdCRjjj2qfFJG6zRrJGwZWHBBB/lTsV9pHZH49Ne89LCYoxS4oxTIExRilxRigBMUYpcUYoATFGKXFGKAExRilxRigBpHFS3I/0mT/AHqRVywB6E06bmeT/eNK+o+hFijFLijFMQmKMUuKMUAJijFLijFACYoxS4oxQAmKMUuKMUAJimuyxozyMFRRlmY4AHrT8UjIroyyKGVhgqehHpRr0GrX1PJPHsk13ry+TcxXaCMhDGUYKp3ELxznGf0Nc9awxXVrJCdxnwNm0HAPU9uuFOfXt0rpfHGnnT/EwuDMjxSRfu/XdhgA3PPK4z6YzXLG4eG83rtjEkQJVXOD8vGT65AP1r4jF2WIk59z9oyzmlgKcaL2Sae2vY7HwBoDTa79onEZQW825QSCpxt4/wC+sV6akaxxqkahUUAKoGAAO1eYeAvELW+sNDIu8NaynHQ9Nx5/A9fUc16hG4liSQBlDqGAYYIz6jsa+gyn2XsfcPgOJ/rP11+22tp6dBcV19cjiuurtxHQ+bp9QooorkNSlq3/ACC5v+A/+hCuaxXS6r/yDJfw/wDQhXN13Yf4DCpuJijFLRXQZiYoxS0UAJijFLRQAmKMUtLQw6nzfqDSL8ctVMNoLyT+2bjbCe/71ufw61s6vommRa3caj4lQy3EmDBYWrbQi9i5xyDXO6/qM+l/GPW7uzUPKmr3IVT0OZWBFdH4zmM/iIb1KyR28UcgJ6OF5/nXq8XY/G4CnhpYaSjzws3rzaWenlrvud3DuS0s1zrlrp8ig3o/Pby/Ut6jp2jRmz1MNGunRwo0OnwTZDzdfmXPAHvj/GKx1u+1ptUsrxjP9uspVihHCI4XggewzXNZx35rd8EjPi60B/iWVfwMTD+tfnH1/F4mtRdeblyNW+/f17s/SKnCWX5fl2KUFdyUnd9FvZHlrDBI9DTaklGJG+pqP1r+qYScopn44tUb+if8ir4m/wCuFv8A+j1rArf0T/kVfE3/AFwt/wD0etYFceG/i1f8X/tsS30Fr0TwfdvpngDUbi0l8q5urxbclThtgTcefwx+Nediux0X5PB8WDkveSk+2EQf1r5LjybWSyj3aX43/Q9rh+hTxGbUKdRXV/yTf6HU25t/FlxaLe3DWesW7DbdrJ5f2qPPKMezYzg1Hr2keFNU1a4soozp0yybYbyJ/Mjb/fGe5xkjpXP55/kKAcEH0r8Tw+d5jhVCNGq0obf8HuvJn6diOB8sq4ipiEmuZaJaJPuv8ti58RYryz0jSrXUNPiikiyhuosbXKjGBj16816v8Jx/xanRfpcf+lEleSfE3Wbme5tNMYrJbJFHcRSL33IBjp2xivXfhMP+LU6L9Lj/ANKJK/Uq06tTh7D1atrylfTbVS7n4lgcO8OpUpK1nL8zrsUYp1JXzZ3CYoxS0UDExRilooATFdXZ/wDHjB/1zX+VcrXVWf8Ax4wf9c1/lXLiNka09yas3Xf+PFP+ug/ka0qztc/48U/66D+RrnpfGjSXwmBijFLijFekcwmKMUuKMUAJikI4p2KMUujA+aPi/wD8lc17/run/opKX4c+ILfTL2fStScrZaknlv8ANgK3UE0nxf8A+Sua/wD9dk/9FJXGKSCCDyOR7V+sQwFLMMmp4WqvdlBfkc0nKM+aDs07p+a2PZ5fh7cTTD+zr+3miK5DzMI8/n1+tUG8B62jMALM46Yu05/WvOYvEGqwpsjv5lA9G6U//hJ9a/6CU/8A31X5rPw3xCk/Z4hNdLr/ACPqcPxrnlGPLNQl5u6f4HfHwXrQlZPIjwoHz+evln/gXSnN4J1hQT/ohA7LdIf61wi+MfEKRGNdWudmfuhh/hTV8X6+mduq3AyfUf4Vn/xDfG9K0fuZ0PjvOekIfezvB4J1hkL7bYD0+0pk/hmmjwdrTLuFumM4wZlrhz4y8Qn/AJi1x+Y/wpf+Ez8Rn/mMXP8A30P8KP8AiG+O/wCf0fuY48d5ylrTh97PT/DHg/VrbxRplxMLYRx3Csw+0pnH0zWXJ4K1lGyVtW54C3Kc+nesLwJ4o1u9+IOhW91qU8kUl7GroSPmGelYT+LvECSMP7WuBhjj5h/hWa8P8ZKo6Hto3ik9n1v/AJGUeM83VT2zhC703fT/AIc7b/hDNZBA8iMnPOJV4pW8F6wqgstsc9hcpkfrXDf8Jl4jH/MXuQfXcKT/AITLxD/0Frj8x/hWi8N8d1rR+5mr48znpTh+J3o8D6yQDizx6fakyP1pqeCtbeQoIIl/22nUK30NcE3izXpGBbVZyR0+Yf4U5/GHiF4fKfV7poweFLDH8qa8N8ZfWtH7mJcd5y18FP8AE9BXwDrTOF/0NR6m6T/Gr0Xw/Nqwl1nUIEtQcu8LBwVA+6SOh968sPibWev9pz/g1Rz67qdzC0dxezuGHILcGtYeG9dzXtMRp1sjlxHGmd16bguSN+qvp95t/ELxDDruvj7GFFrbIsUe3uB3qf4Q8/FzQP8Aru//AKKeuLPJrs/hB/yVvQP+uz/+inr9KrYOngsoqYal8MYNfgfLwvzau7bu/U+lgPlH0pcUvYUYr8lOoTFGKXFGKYCYoxS4oxQBu6F/x4v/ANdD/IVpVnaH/wAeL/8AXQ/yFaNebV+NnTH4QooorMoK5u6H+mTf9dG/nXSVzl0P9Mm/66N/OumhuzOpsQYriviLfSW0drE8cJ/cOVDEgupcA4+nBIrtyuVIPIIwRXm/j3SRbz2MUcHmWyWkm2V3JKHzN2O56KQD3zz745hKSovlPXyKFOWNjzs5++1W2eXYJAIo2kkEce8LjcNvvnG71/WrPhTSY7nxDZ+S4HyI7ZbdtO2Ttkgn5cjPTjjrWPeWd0l009vFjcrFFgJO0hh64P8AEOmf51N4bfUL3xFaQadPMJGTCfMUUBQR1BztGTnHPJFfOxqN1oqav2P0Orh0sHN0J2Vne78j2yC3jtbdIIECRxqFVR2FPxUdpbm2s4oXmedkGDJIxJY+vNTYr7GL0PyKXxPW/mNxRinYoxVEjcUYp2KMUANxRinYoxQA3FGKdijFADcUYp2KMUgEUfOv1p0o/fSf7x/nQo+dfqKdKP3z/wC8f50uodCLFGKdijFUA3FGKdijFADcUYp2KMUANxRinYoxQA3FGKdijFADcUyaNpIXRXaIspAdOqnHUVLimTib7O/2XyzNj5PMztz74qXtqOPxKx4x4u0qaDxBKkwlEcabt5XIb5WY7Tjp8p69OnQVQ0+GCSGK7vFi8rzPLYsOuEbb0PqBnj0rS8W6/eanrUnnqkJsmVdm3YWK5yCrEk/fPtj61z2+W9n4jDKuThQBjgeg56Z/ya+Krypqu3HXU/aMHSrzwMI1Go6LVPbT9dz0jwdDo48TedbkLIlm/wAkakKWKqCSMeob8R613+K8o8B3k8Ou3cUFvHJeraEQ7kyFG5B2IwCC30yfevV0DBF3kFsDcVGBn2r6PLJqVJtI/OeIqUqWLtKV9FbW/wDSExXVVy+K6iurEdDwKYUUUVympU1X/kGy/h/MVzmK6PVP+QbL+H8xXPYrtw/wmFTcbijFOxRiuggbijFOxRigBuKMU7FGKAG4oxTsUUPYOp8r+M5/svxU1+cDcY9XuGx64mbiu21S2XxVanxHogM3mjN3AoyYmAweO4/lXCePv+Sj+JM/9BW5/wDRrVB4e8U6l4aujNpsuAxBeNidpI74B6+9fd59w687y2i6UrVIRXLfZ6K6Ztl2aYjKsV9Zw+vRp9V/WxuFSCQRgg457VseHWaykvdXzsSwtJX3MDgsVKquR3OTj6VoWnijwf4jTztYt/sF7jMjKxUOe5wOD+n0rnfGnivTptNGi+GI/Ks9264kHPnMPc8kdPSvy/LOFc1q5jChiKLjFPWWlrLs+tz7bNOOcLjMBLD4eElUmrO60jffXZnCM25y3qc031oor+kEklY/NTf0T/kVfE3/AFwt/wD0etYFb+if8ir4m/64W/8A6PWsCuDDfxav+L/22JT2Qo967nwrCl54I1BIlLXFldLO2Onlsu3+Y/LNcKDitzwp4ik8Oa0LoRiWCRTHPCRkSIeoryuJ8snmeWVKFP4t16rX8djswGNlgMVTxUFfkd7eXX8Dbx/k1q6J4fudYnOAYrWPma4fhVH19fQVrf2p8PvsovtrEFdxti7cH09evv8AjXJ+KfiJd6xCbHTEFlpwXaIlGDjuOOMH26981+H5Xwjm2Pr+zqUnSit5S/RdWfoWYeIFKdHky6m3N9ZKyj/m/Io+OdatNW1qNNMUizs4xBET1YDqfxNe6fCXn4UaL9Lj/wBKJK+ZQeRX058I/wDklGi/9t//AEokr9Vz7B08BlNDDUfhhJJfcz82pXu3J3bOvxxRinYoxXwZsNxRinYoxQMbijFOxRigBuK6m0/48oP+ua/yrmMV09p/x5w/9c1/lXNiNkaU9yWs7W/+PJP+ug/ka0azta/48k/66D+Rrnp/GjSWxhUUuKMV6JziUUuKMUAJQelLigjil0YHzN8X/wDkrmv/APXZP/RSVxVdr8X/APkrmv8A/XZP/RSVxRr9qyn/AHCj/hj+SOOfxMKXJ9aSivTsSFFFFABRk0UUAdL8Of8Akpnh3/r/AI/51zrn53+p/nXRfDn/AJKZ4e/6/wCP+dc4/wDrH+p/nXmU/wDf6v8Ahj+ci38CG0UUGvRRAUUUVQBRRRQAortPhD/yVvQf+u7/APop64sV2nwg/wCSuaD/ANd3/wDRT15ma/7hW/wy/IuHxo+lx90f57UtKB8o/wA9qMV+KrY6xKKXFGKYCUUuKMUAbmif8eT/APXQ/wAhWjWdov8Ax5P/ANdD/IVo151T42dEdgooorMoK5+5H+lS/wC+3866CsG4H+lS/wC+f510UN2Zz2IMVxPju2UNzNcFHtslFbKg+Yeueg6EYHG2u4I4OBk9h615Z4+uRLNZ3MemSRmS2d2yyZR95Xngknnke/saxx81GldnsZHRlUxaUf0MrU45LC/EMZklIklRTG/H31/HPH8j61T8J3k9jrGnPA7PJh9kSoJODuHA3Dn249frYi1K3fS74nes0iHYu1OG8xCeAMjgdB7dqseFUsrTxnazWS3U9vC0nzMFyvyMcAHjGOd2a8BWdWEos+9bcMJWhUjqvx0/Dc9csxcm1T7d5fnkHd5YwBzx3Pb9amxTLWcXdrHOsckayDcFlXa2PcdqmxX1y2Pyid+Z3VhmKMU/FGKZAzFGKfijFADMUYp+KMUAMxRin4oxQAzFGKfijFADVHzr9RTpR++f/eP86VR8w+opZR++f/eP86XUFsRYoxT8UYpgMxRin4oxQAzFGKfijFADMUYp+KMUAMxRin4oxQAzFR3Eot7WWZlZxGhcqgyzYGcAetT4prskSF5HVFUZLMcAfjSexUVqjxbxlqVjqfim4ubcKRGkQzJ3x1GBkEcjk56dDVW31qKW0FslrHGwikyyuwbJBUNkDn75/LHpVvxvZWreL7oWk9ukc/lFVWTILsOvA4HGD25FU7dTbaeIYVhMzYO/dyAc4XkeobrwOOxr4+bmq8r93c/XacaDwNNJNuysm3pojpfhebmPWL+LyfMKxFTPISMqHjHHpwOPXIFenYrzT4calJcareyFrW3jEJLyFQpkG+PqSR2AwexJNenYr3csa9ho76nwnEnN9fk5K2i/L7hmK6WudxXRV11+h4EAooormNCpqX/IPl/D+YrAxW/qX/IPk/D+YrCrtofCYz3G4oxTqK3IG4oxTqKAG4oxTqKAG4oxTqKT2Bbnyb4+P/FyPEn/AGFbn/0a1c9mug8f/wDJSPEn/YVuf/RrVz9fuWBS+q0v8K/I4pbsM0u40lFddkSFFFFMDf0T/kVfE3/XC3/9HrWBW/on/Iq+Jv8Arhb/APo9awK4ML/Fq/4v/bYlPZBRmiiu+xIu40maKKVkAuea+nvhEP8Ai0+i/wDbf/0okr5gr6g+EP8AySfRf+2//pRJXx3GH+5Q/wAS/Jm9HdnY4oxTqK/NDdDcUYp1FAxuKMU6igBuK6S1/wCPOH/rmv8AKudrorX/AI9If9xf5VzYjZGlPclrP1n/AI80/wCug/ka0Koax/x5r/10H8jWFP40XLYxKKWivQOcSilooASkPQ06g9DQ9mB8x/F//krmv/8AXZP/AEUlcUa7T4v/APJXNf8A+u6f+ikrizX7XlP+4Uf8MfyRyT+JhRRRXpEBRRRQAUUUUAdL8Of+SmeHv+v+P+dc4/8ArH+p/nXR/Dn/AJKZ4e/6/wCP+dc4/wDrH+p/nXmU/wDf6v8Ahj+ci38CG0Gig16SICiiimAUUUUAKK7T4Qf8lc0D/ru//op64sV2nwg/5K5oH/Xd/wD0U9eZmv8AuFb/AAy/IuHxI+mwOB/ntRSjp+VFfiq2OsSilooASilooA2dG/483/66H+QrQqho/wDx5t/10P8AIVfrz6nxs6I7BRRRWZQViXA/0mX/AHz/ADrbrGnH+kSf75/nW9HdkTIcV5p8TrKVb+0uAXkkdCE2gAY3PweDyPXvn2r01gdpAOCeh9K8y8e3F0ZrK2nvFN3CpEirGVJB3kMNpyAVz/XvXPmDTo2Z7WQ3jjFKL/P+rHDzQObWHzJ1Vg7ZjMpMm4tgg+mODnHNaXhuxuNR8XWdvEYI9sz7nXDD5SWPbngccenbiqIW35m2skyzncG3HzssCC3bo3StTwnKln4jtBHctHcxyyxF2QfOxVsHJOOcgZNfO0UvaRufomLqSWHq8u6Ttpte/wCB7XjNGKZapOlrGt5Iss4Hzui7QT7CpsV9inofjzVm0MxRin4oxTuIZijFPxRii4DMUYp+KMUXAZijFPxRii4DMUYp+KMUXAao+YfWlkH71/8AeP8AOlX7w+tOkH71/wDeP86V9Q6EWKMU/FGKdwGYoxT8UYouAzFGKfijFFwGYoxT8UYouAzFGKfijFFwGYpk0Mc8LxTIJI3UqyMMgg9qmxUN3M1tZyzpC85jUt5Uf3nx2HvSb01HFNtJbnhfidpbDxDeC7tDHNvRk3Dldqgfe4B4wcjg8GstoJokd5ZixaEKCwJBDZ4BP0/Otzx5evq/iq4ItjG0cScKRIcDgEsOMEMD364qhCkkUVrqs0eI0niEcTBij4LcN7ZVvf5uK+MqpOtJJ6XP2fCVOXCUpNJNpXW/TRI2/hnYG+1iUSiR7YQPvUKNpJePcCT2wBn2PFexhcDpXmPw+1WCw1W/WSzKFrcP/o43FmZozjrjjtj/AOtXqOK+gyvlVGyep+e8S1J1Mc5SVk0rfcuwzFb9YeK3K7a3Q+cgFFFFc5oVtR/48JPw/mKw8Vuah/x4yfh/MVi4rsofCYz3G4oxTsUYrYgbijFOxRigBuKMU7FGKAG4oxxTsUmOtJ7B1Pknx/8A8lI8Sf8AYVuf/RrVz9dB4+/5KR4k/wCwrc/+jWrn6/dcD/utL/CvyRxS3YUUUV1khRRRQBv6J/yKvib/AK4W/wD6PWsCt/RP+RV8Tf8AXC3/APR61gVwYX+LV/xf+2xKeyCiiiu8kKKKKACvqH4Pj/i02i/9t/8A0okr5er6i+D4/wCLS6L/ANt//SiSvjeMP9yh/jX5M3o/Ezs8UYp2KMV+ZHQNxRinYoxQA3FGKdijFADcV0Ft/wAekX+4v8qwcVvW3/HrF/uD+Vc9fZGlPclqhrH/AB5r/wBdB/I1fqjq3/Hov++P5GsafxouWxi4oxTsUYrvuc43FGKdijFFwG4pCOKfSHpQ9mB8wfGD/krmv/8AXdP/AEUlcWetdr8Yf+SueIP+u6f+ikrijX7ZlP8AuFH/AAx/I5J/EFFFFekQFFFFABRRRQB0vw5/5KZ4e/6/4/51zj/6x/qf510fw5/5KZ4e/wCv+P8AnXOP/rH+p/nXmU/9/q/4Y/nIt/AhtBooNekiAooopgFFFFACiu0+EH/JXNA/67v/AOi3rih1rtfhB/yV3QP+u7/+i3rzM1/3Ct/hl+RcPiR9O0Yp2KMV+KJ6HWNxRinYoxRcBuKMU7FGKLga+j/8ebf9dD/IVfqjpP8Ax6N/vn+Qq9XBU+NnRHYKKKKzKCsiYf6RJ/vH+da9ZUw/fv8A7x/nW1LciRDivPfiNprXV9A9qI5HaAyuruBgKjZ2n6Dp3IHrXopXIIIBBGCDXkvxB+x6dqUNtaxi28m2VM7FLFfnwpH4nDccdc4zXNj5JUtdj2sijKWKtB6+hyN1YNBtbb5CKwIaV9oZiFywwOh4PBGM9OK2PBum27+MbCK6tI4x5kjFDcZ4TdjjpgFQPfHvWf57XafIryp5m1Y5Cv7xdwKjbgYGCDweuateFBJd68ggsY5IxMxKeWoYK3y7V3dWG7OD0AJ7V8/SUfaQsj9CxM6zwlVSdrLv5ep7mMEZBz7ilxTLa0gsrWO2tI1ihiG1EUYAFS4r7BO+5+QO19BuKMU7FGKAG4oxTsUYoAbijFOxRigBuKMU7FGKAG4oxTsUYoARR8w+tLIP3r/7xpyLmRR7ikblifU5pdQGYoxTsUYpgNxRinYoxQA3FGKdijFADcUYp2KMUANxRinYoxQA3FJin4qC+hlmspEguWtZMZWZQDtxzzkEYpN6DiryR4Z4zjl0bxbeQQ3O4k/OwJJbODlsjG4jbnHpWFA03nxINpeNgV8zBXGcjI78n39MVr+IdVOpeIZn1CeSWNZNq5AJVR0OQADkYGRjOM1FLgXcUtxJuljDnIc73xI3IA4DE54zyee+a+MqpSqScXpc/acLN0sNThUjd8u/yO2+FkUt9f3l8xdVjt40UjaFPIzxjnJTjHb3r03Feb+B9Q1W91S/is3iiV4ITkxBkRRtBxjjueO9elYr6TL2vZWXmfmWe8zxbbstFoumiG4rarHxWxXVV6HiwCiiisCytf8A/HlJ+H8xWNitm+/483/D+YrIxXXR+EynuNxRinYoxWxA3FGKdijFADcUYp2KMUANxS44pcUEcUnsHU+RfH//ACUjxJ/2Fbn/ANGtXP10Hj//AJKR4k/7Ctz/AOjWrn6/dsD/ALrS/wAK/JHDL4mFFFFdZIUUUUAb+if8ir4m/wCuFv8A+j1rArf0T/kVfE3/AFwt/wD0etYFcGF/i1f8X/tsSnsgooorvJCiiigAr6j+D3/JJdF/7b/+lElfLlfUnwdGfhLov/bf/wBKJK+N4w/3KH+Nfkzeh8TO0xRinYoxX5idCG4oxTsUYoGNxRinYoxQA3Fbtv8A8esX+4P5ViYrbt/+PaL/AHB/KsK2yLhuSVS1X/j1X/fH8jV2qWqf8eq/74/kawp/Gi5bGRijFLRXeYCYoxS0UAJigjiloNHRgfL3xh/5K74g/wCu6f8AopK4o12vxg/5K74g/wCu6f8AopK4o1+2ZT/uFH/DH8kcc/iCiiivTICiiigAooooA6X4c/8AJTPD3/X/AB/zrnH/ANY/1P8AOuj+HP8AyUzw9/1/x/zrnH/1j/U/zrzKf+/1f8MfzkW/gQ2g0UGvSRAUUUUwCiiigAHWu1+EH/JXtA/67v8A+i3rihXa/B//AJK9oH/Xd/8A0W9eZmv+41v8MvyKh8SPqDFGKUCivxJbHaJijFLRTATFGKWigDW0r/j1b/fP8hV2qWl/8erf75/kKu1wVPjZvHYKKKKgoKzZR++f/eNaVZ8g/ev/ALxrWnuTIiIwCQMnHA9a8x8f3EOsXdqXtLmL7Pa+ZgleTmThlDc4ZD9Oa9RxXnPjsvp/iWGfcRJc2xjVxFu3oUkBGB3Gcfjnscc2Ov7NLpc9fJpcuIbW9tDixqViIp43S4kLsrpsZVBf92SM7sgYDdOnHOK1/Cl59n8UWl1DHK6Bp0cLMmGAD8klsZwASSecZ+vM3SW7yhWvFiZpGJRlZChyBkHoOB6cYOO1bvhey/tHxRYxW+pKJIJicRqpA5kfIONpBAHHv2xXiUJy9ov66/8ABPucbRpLDTeu2t79rHslrMbq0jmMMkBkXPlygBl+oBOKlxT8UYr6pban5a7N3GYoxT8UYpiGYoxT8UYoAZijFPxRigBmKMU/FGKAGYoxT8UYoAIh+9T6j+dMxUsY/ep9RTcUuoDMUYp+KMUwGYoxT8UYoAZijFPxRigBmKMU/FGKAGYoxT8UYoAZio554bWEy3U0cMY4LysFUZ9zU+KiurZLq1kgmXckilSM4/Xt9aTvbQqKXMr7Hh/ijT7O68XajPY30KK04WFYnDf8s1OQQemSRx6Gm6to8UWk2S20izSNCGdxIcM5kI3jr9cVV1W3un1jU1lhBuXuQ24DDIz8kHgZxjHA65x1qjpttNBq0cM29Y1m2v5YXnBxxu4Izj8K+QqSjzS93f8ADU/XaEJujTaq/Alp30PRPhXpi29xfXs8iRO0KhLcOp8pS5GG9/l/XnrXpGK8z+Hum2d9qN5O9v5ttLAhEcig7T5hI78j5Rn616fivfy/+AtD88z2XNjZNvXT5eXyGYrVrNxWlXXV6HjRCiiisSiC9/483/D+dZOK1bz/AI9H/D+dZeK6aXwmctxMUYpcUYrYgTFGKXFGKAExRilxRigBMUY4pcUuKT2BHyD4/wD+SkeJP+wrc/8Ao1q5+ug8f/8AJSPEn/YVuf8A0a1c/X7xgf8AdaX+FfkjgluwooorrJCiiigDf0T/AJFXxN/1wt//AEetYFb+if8AIq+Jv+uFv/6PWsCuDC/xav8Ai/8AbYlPZBRRRXeSFFFFABX1N8Gx/wAWk0X6z/8ApRJXyzX1N8Gv+SR6L9bj/wBHyV8Zxj/uMP8AGvyZvR+I7bFGKXFGK/MDqExRilxRigBMUYpcUYoATFbMH/HvH/uD+VY+K2IP+PeP/dH8qwrbIuBJVLVP+PVf98fyNXKp6lzbL/vj+RrKn8SKlsZWKMU7FGK7jAbijFOxRigBuKCOKdigjik9mB8t/GH/AJK94g/67p/6LSuKPWu1+MP/ACV7xB/13T/0WlcUa/bsp/3Cj/hj+SOKfxMKKKK9MkKKKKACiiigDpfhz/yUzw9/1/x/zrnH/wBY/wBT/Ouj+HP/ACUzw9/1/wAf865x/wDWP9T/ADrzKf8Av9X/AAx/ORb+BDaDRQa9JEBRRRTAKKKKACu1+D//ACV7w/8A9d3/APRb1xVdr8H/APkr/h//AK7v/wCi3rzM1/3Ct/hl+RcPiR9RD7tGKcOlGK/EVsdg3FGKdijFMBuKMU7FGKANPS/+PVv98/yFXapabxbN/vn+Qq5XDU+Jm8dhaKSioKFqjIP3jfU1dqq4/eN9a0p7kyIiuQRkjI6jrXkvxJa7tryG3luLiRVt4gZc5DHLgnrwfb/61euFflODg9jXlfxAsLptUhjZlJ8qNpZIrY5yd/K8dCBzz1+hrzs1a9ie9kE4wxacmreZwMp+ySurRytMhIbzywJbdkZwevXjjvzW14Ju007xpZSRxy3CYCKkR4BaNi2SxAyCSfTrVK8ht2knhjZgPN2owLBZFDNng/h6VLp7mLULWUzrGIVtnCvAHRl3FCSAei7vxzXz9GpaqvJn6FiGquGnGX2k+/yPd7G6F9YxXSxSQiVdwSUAMB74JH61Pin45NGK+2jtqfj0rX0GYoxRJIkK7nOM8AAZJ+g71nx3l79um86GOOyjG4yucMo649MjvS5lexzVK8abUXdt9uhoYoxRDLFcQJNA6yRSKGR0OQwPQin4qjdeQzFGKfijFADMUYp+KMUDGYoxT8UYoAIx+8X6imYqWMfvF+opuKXUBmKMU/FGKYDMUYp+KMUAMxRin4oxQIZijFPxRigBmKMVRg1iKa+a2eGSEqM7pMAH0/OtHFLmTMaVenWV6buMxSMVRSzsFA6knGKkxVDW7ZLnRrhZLY3W1fMWIbcll5GN3GfrRJ2VzpglKaizwjxTetN4t1C6gvJCz3LiKSJQQYslcgjrwAB/Osl0mVfPlLO8rHzTLnLZwe4698gnt+NhY/tEN4Z4VZ8IImUKPL3Nu6epB+o/CrFlp8twrWz7pJGgadY1JJXaG79uBk+1fD1J883rvc/aqbp4ekk/s2T+5fgt9Tv/AIa3phhuIbfTizOkbbxJncC789ML16cD5c16XjmvMfhhLJaNcB7Zwr7IsxxDLEMevf8AiyT/ALPoOPUMV9LlkubDp3Py/PopY6fKhmK0KpYq5XfU6HixFopKKyKIbv8A49X/AA/nWZitO6/49m/D+dZ+K6KXwmctxmKMU/FGK2IGYoxT8UYoAZijFPxRigBmKXFOxSYpdBnx/wCP/wDkpPiT/sK3P/o1q56uh8f/APJSfEn/AGFbn/0a1c9X7zgf91pf4V+SPPluwooorrJCiiigDf0T/kVfE3/XC3/9HrWBW/on/Iq+Jv8Arhb/APo9awK4ML/Fq/4v/bYlPZBRRRXeSFFFFABX1R8GR/xaPRfrcf8Ao+Svlevqn4Mf8kj0X63H/o+Svi+Mf9xh/jX5M3ofEdvikxT8cUYr8wOsZijFPxRigQzFGKfijFADMVrQ/wCoj/3R/KszFacX+pT/AHRWNXYuA+qmo/8AHuv+/wD0NW6qah/x7r/vf0NZU/iRctjNxRilxRiu0xExRilxRigBMUhHFOxQRxSezA+WPjD/AMld8Qf9d0/9FpXFHrXa/GL/AJK74g/67p/6KSuKPWv2/Kf9wo/4Y/kcM/iYUUUV6ZAUUUUAFFFFAHS/Dn/kpnh7/r/j/nXOP/rH+p/nXR/Dn/kpnh7/AK/4/wCdc4/+sf6n+deZT/3+r/hj+ci38CG0Gig16SICiiimAUUUUALXafB//kr3h/8A67v/AOi3ri67T4P/APJXvD//AF3f/wBFvXmZr/uFb/DL8i4fEj6lx/KlxS4/lRivxHodwmKMUuKMUAJijFLijFAGjp3/AB7t/v8A9BVuqmn/APHu3+9/QVbriqfEzaOwUUUVAwquw+Y/WrFQMPmP1q4bksbiuA+IGpNFLcWD2pKSwRN5gkx8qsxyBj+9gV6DiuG8cWlpqQuI7pVW5hij8sg5Kkls4OOmD39q8zNpWopef6M68DKlHEwdVaX/AKZ5FqUcYuGeDcQxz85yVzzye9TwON0RknSOBkRW+XLbRICR9Rjd9Bir32LZqUdu5xzsZjgBiRjv27Z9OafaeTG0UxvYbZI4Zk8osMtuQ9M8cnj8vXNfJUm20j9SrYqKw8eXXS9++/8AkeyeFrme98OWk95c/aLiRA7t8vGeg+Xg/Wrc1185jjkWMDqx+Zj/ALqj+Z/Wuc0nVrW3mngsJElWN2H7ojIVjuX5enGSBjrtP4aiRteJFLbW7zRMc4aVYl+pC8/ga+0y+uq9Plk/eW5+L5hXkqso01rfb116epDearFbJKbNGkmUYe4mPK846df6VnQ6lqEsS2j2zT2jHZI8Qy8hzkopyAcjIOOgDHNWLzQdSuLp2kEctuqn92uIw/HAAU5OM9SR9RU9vo+rpc25N2I40VgEVF2QoRjaOMlvpj3Y9D7kVShHRp/1+Z4VGhjJYh1Kl0trLbfXT/h395pz6pBHazfZNrypL9mijPyK83ZQTwRnrjOMH0q3DujtkE8vnSIoEjqoG5gOeO2T2rDGj3uy0O+TbAPLgikVCIWwc3L8cydcAcZYZ6k1I+l3EVreRxxtJHHMLlVwoe8mDeZuJ4AG7avY/J6Vg4x6M+ii5dUamnG7fTYH1FVS6ZAZVQYCk9up6dOtLZ3Elz55khMSpO0ce7OWC8bse5zj2we9UzZ30lxOsszI1zaBJriEkCFgpAEQznOS7ZPPK8nskDags+nSTQyIHRoXtxIXEY6iR3xywCAY9Xbk0rFlxLmR9Vmtfs7CKKFJPPJ4YsWG0DHbbk89xUryrHNFGwfMpIUhSQMDPJ7fjVO41jyLW7uDau6xXCwQIrDdcMSq8ZwB8xI/4D+FWxdL9slgZSqRRq7TEjYCSflz6gAH6MKmz7D0C6nFrbmUxySAMo2xLuY5YDp+OfoDTriT7PayzFWfykZysYyzYGcAdzTEvEdbYiKZWuBkIyYaMbScuP4emPqQO9J9sKx3TtbXAFu+0BUyZRgHcoHUfNj6g0tQJbWQzRwytG8RdVYo+Ny55wcZGfxplzOLaNHMckm6RI8RrkjcwXJ9hnJPYCpI51N6YAGLKu5nAyo56Z9e+PTmmPchBcHyZj5C5O2Mnf8ALnC/3j2+vFC3GOkby4nfBbapbCjJOPSkgkE9vHMFZBIgcK4wy5GcEdjS+cPOij8uTMiF92z5Vxjgnsfm4HsfSohfxeQszJKqmTy3DJgxnOPm9BnHPTkHpzRqIdbXEV0rtCSRHI8TZGPmU4I/MVHHeLJqdxZCORXgjjlLnG1w5YDHOcgoc5xT3vEjW5/dTM1uMlFTLSDaDlB/EOcfUEdqDeRi+ht8ZE0bPHKGGxiCPlB7nBJ+gNHyAV7iOO7it2JEkqsUGODtxkZ9een19Kjvro2awPsDRvMscjZ+4G4Df99Fc+xJ7YrPjv7ySxEsYIe8uCtt5qcQDbnZJjsWVwCOxU+9NnvbsS6jMyT/AGaIiCSEkB4uR++jZRkgo27Gcgr25q1F3sK5f1S5uLKyNxbQLOI2DSqzFSIx94rxywHQcZ9RTdUitrvSpPPlWOMIJ1lJ4Tb8wf6AgGs2R9dt3t7e1WKe5toFy0srGO6TADt0GJAyjA5+/wBRk1Wjt7yPyTDbwtAkoFjJKDuMbf62CXOeTyATwSoz2zaj1uZSl0sJN4nWcZFrsdCFdn5Dev1XPAPetm0uFkjBs5g3HNvK3/oJ6/zFc1NBeXDvHd2IjjjJVZLZjvtueI2B/gxz6ehxirNityJ9t1Yyr5Q2koPmUdAxQjke61rOjBxvHf1PnvaYqliHKWsX5Wt9366HUxTLIxRg0cgGTG/DY9ff6isLxvqUmm+G59kAkFypgZzJs8sMMZ/mPrip7S5EbCRpUKoM/wASFh6hW/kMfjWJ4tf+2bJokmaOIKZCvK7uiqp+rOvtwT2rwsxxDoU+RfFLRH1GU14Va0HU2TPImuFSzkMCPF5nlKdoG0lU5OezZ5x7nNLZS3KSCWPds2vH5uSpxjkA/Q9OnNWv7LLwy7QyRG5lWMBjhgmM9euAetRW9vK8LxwpnkDbjOT2/lXxk6jT8z9p9pSnRlbZ737PQ9e8B/2c0Mr2DK0r2sPm5Yltw3bhz74zjjpXX4rlPAOiw6TpspM/m3MwTfnkqMZ2j8/px7ZrrMV9llklLDJrz/M/IsdyvEzcZNq+jfYTFWagxU9d8zkiFFFFZlDJU8yMrnGe9V/sf/TT/wAdq1RVKTWwmkyr9j/6af8AjtH2P/pp/wCO1aop+0kLlRV+x/8ATT/x2j7H/wBNP/HatUUe0kHKir9j/wCmn/jtH2P/AKaf+O1aoo9pIOVFX7H/ANNP/HaPsX+3/wCO1aoo55D5UeKeIP2d/wC3fEmpat/wlHkfbruW58r+z92ze5bbnzRnGcZwKzv+GYv+pu/8pn/22vfKK96HE2bU4KEaui0+GP8AkZexp9jwP/hmL/qbv/KZ/wDbaP8AhmL/AKm7/wApn/22vfKKv/WnOP8An9/5LH/5EPYU+x4H/wAMxf8AU3f+Uz/7bS/8Mxf9Td/5TP8A7bXvdFH+tOb/APP7/wAlj/8AIh7Cn2PE7L9nb7HpWp2X/CUb/t6Rpv8A7Px5eyQPnHm85xjtWf8A8Mxf9Td/5TP/ALbXvlFZx4kzWDbjV31fux7W7eQ/Y0+x4H/wzF/1N3/lM/8AttH/AAzF/wBTd/5TP/tte+UVp/rTnH/P7/yWP/yIvYU+x4H/AMMxf9Td/wCUz/7bR/wzF/1N3/lM/wDtte+UUf605x/z+/8AJY//ACIewp9jwP8A4Zi/6m7/AMpn/wBtr1bwX4O/4RDwjZaH9u+2fZTIfP8AJ8vdukZ/u7jjG7HXtXTUVxYzOsfjoKniKnMk77Ja/JIqNKEXdIq/Yv8App/47R9j/wCmn/jtWqK8v2kiuVFX7H/00/8AHaPsf/TT/wAdq1RR7SQcqKv2P/pp/wCO0fY/+mn/AI7Vqij2kg5UVfsf/TT/AMdqyo2oq9cDFLRScm9xpJBmmyRpKu2QZGc9adRU7DIfsdv/AM8/1NH2O3/55/qamoquaXcVkQ/Y7f8A55/qaPsdv/zz/U1NRRzS7hZEP2O3/wCef6mj7Hb/APPP9TU1FHNLuFkcfrHwo8Fa/q9xqmr6L9ovLlg0sv2qZdxAA6K4A4A6CqX/AApH4ef9C/8A+Ttx/wDHK72iu6GZ46EVGFaaS6KT/wAyeSL6HA/8KQ+Hn/Qvf+Ttx/8AHKP+FIfDz/oXv/J24/8Ajld9RVf2tmP/AD/n/wCBS/zD2cOxwP8AwpD4ef8AQvf+Ttx/8co/4Uh8PP8AoXv/ACduP/jld9RR/a2Y/wDP+f8A4FL/ADD2cOxwP/CkPh5/0L3/AJO3H/xyj/hSHw8/6F7/AMnbj/45XfUUf2tmP/P+f/gUv8w9nDscXp3wh8DaTqdvqGn6H5N1bSCSKT7XO21h0OC5B/Gqx+CXw9JJPh/r/wBPtx/8crvaKn+08cpOXtp3fXmf+YckexwP/CkPh5/0L3/k7cf/AByl/wCFI/Dz/oX/APyduP8A45Xe0VX9rZh/z/n/AOBS/wAw9nDscD/wpD4ef9C9/wCTtx/8co/4Uh8PP+he/wDJ24/+OV31FH9rZj/z/n/4FL/MPZw7HA/8KQ+Hn/Qvf+Ttx/8AHKP+FIfDz/oXv/J24/8Ajld9RR/a2Y/8/wCf/gUv8w9nDscF/wAKR+Hn/Qv/APk7cf8Axyruj/CjwVoGsW+qaTov2e8tmLRS/apm2kgjozkHgnqK7CipnmeOnFxnWm0+jk/8w5I9iH7Hb/8APP8AU0fY7f8A55/qamorh5pdyrIh+x2//PP9TR9jt/8Ann+pqaijml3CyIfsdv8A88/1NH2O3/55/qamoo5pdwshscaRLtjGBnPWnZooqdxhmjNFFABmmEcmn0mKuImMIrmNWkgk1y5t1k8mXyA3mAYyR82054IwtdTiuS1ggeMbGe527BP9jXAwTviz19Bu/E1NTCxxS5W9tfmtUcGLq1KSg4b3t6JnIapp6yEmFFljRhIYyeWxweg64Ofx/CuQWyaO98+OJXSOQIYpGxkMcYJ9OcE9sivVzpy3Xiu609zEgjCSlMY3IRgkfpx6+1UJfD2nvrUumyjbLEync4DIQTlNw7buh9SD6ivj5ZZiqScuR79NdH19L6H0uUcQvCU3h6iutr369V/l+ZW8Lolhb26XR82G7iQz733fNkplT/CBhOO24VpTazLaahK2nwv5hbaVklVBKOgO09/y496yr1LuHUYLmXTDAZpXtWtXAbze/mR7sZyVwBgckHPOa2tM0ezmghuEjWW+t483NmyKSHKnbuVslQCCABwa9WhRq4apdr3V5X9b277L0Pncdh6+KkqvMoyk76dttH5b28xkPjO8uZlRTpaESDCteoDMNuSo5OD15OOg57U9fF9wsln9ovNBQTM6OEvQ209VyQeMDqOckH5hkVfsoAg2r4Vj+Z3mVwYQof5c/Qn1/wBn6VeMuoJCVt/D8akEuoa5jVd3XPGcE+uO/wBa+nhUpTimo7+aM6VKtTjyznd/Mz7XxDcStFHG8MrfNEBKjRyzuDt83aMiOI8nJzkdKtW2qz5tRJKksDEo1w0RRrpznAiUHhenzHjH4mo5b+61NrnTrWC2iuZAPN23Ido06N5hC4z2ABJ5/hxkRGNbPXIYLeOKN7a3ePT7COTBOfvSEjgKR2fPI456jUX0OlXNKTVjBZie4EKCKTbdMJCywd9vAyzcqMAdc/jYhvN891FP5cTQHdjfkiPHDt2XJDcZ6AHjoMpbY6eukWmouIwJPMdo5Ti4umJJULjJXcxbnAHHpircf2izsmuLyKINcTlrj7ROMRRk4C5AwcDACjgk9eSTm0uhorlqEWLw2ggWHYV822UKBgY+8o7cN2/ve9PmsrSe3nglhjaK5J85cY8w4A5x1OAB+FPVDl2lhSIR5WFwQSEwMnp8vPb0AqKyEbxQqqi4i8pZku8LtlZs5YAfxH72QMfNxUDsTfZovtn2rYPP8vy/M77c5x+dMTT7ZIYIkiAS3bfEuT8hwRn8mP502ANA/lh5LrzJpGkkLDEPfb14HQAD3zU1wSY5I1doSY2PnjbiM+vPfnPIxwc0XdwCG2ihuJZY0CvO4eVh/EwUKCfwUD8KDbxm4Wcp+9VCgbPRSQSPzUflS27uZzGyMVREImJGJCc5wB3GP/HhioLhp5GZI2NoI5oiJnCkSruBZQM8ZGV+p4o1uA5NPtoxCEiAEDs8fJ+Vmzk/+PH86bJptm9vcRSQIYrh/MmU9Hbjk/8AfI/KrKNvzlWTDEfN39/pUBikuJY5CxW3aJkktpIwdxOMEn2wRjod1FwH/Zo/thu9n78oIzJ32gkgfmTUKabZRw2kaQIsdmc24/55naV4/AkUSJHGIIomS2MMqpD5oyHG3lVGeflyPUYPFJ5FuLr7L9h+Q/6UHCfIZA4P4NnDe/J7GjXuKwPqMUd60UmFjVCWn3DajDkq3907SG5xkGqw1tQLYz20kXmbvtAZhm0xuALjrtJVgG6cZ6c03aJZlnktZI7bUbcpcwvCMxvjgv8A8BypJyOF/GuoktI7O4khuLie1f7NNOtsrtLDjIb5eSD8p+TOGJ+XqBaSDUmGuO6gJboZFbfLEs25jBztmjAH7wEbTgdMkckYLpNaaK6SA2bPNIWdFjkB8yEdXXIG4j5QU6jPfrWb9imWBoLaKbOnzm5sPIQBZVycqzA7T94jaCpx2NTMmiFHY6PdDcNwMNpJ8rD723aMow78KTgYzV8sexm2xy+KsQwtPo2pq0rOkYSAyLkEhQSOm7Hccd+2Yv8AhNbJJEintbmCbZl0kjICE9Oe468j09eKZDD4XiItopbjT2VRH5RluLYsG9iRuzxz+tUr7TNBTU7aCLV72F4cxLFHfOSG3dPmyeOePeprVKNOHNJNff8Apc5qscVNWoyV/MtrqDavMI2mi3EiSJASvlAfxkHrx/PtzXB+MZJjM13YSSPbB1jKCVtzso3GQ4PAwV/E5rob+1udHsUudVuD5Uz+WxV1Jxg4IZgFXIHYcE8k1nwrHr9jJaPdTRyzbntrdE3nGNu4t90gAAZz69a+QxUnWc6ii7K+u+266fhfqehk/tsHXjXqxurpPvZvd9Vt67JHC2Etw8hUzyIgZigZyx5+9+ff1xXW6Fo7GLzIEY3BXaFzjfxyOceg45q7pfg5hdKHZbmSM/MIznbt656/QA9+vQ1taHp2++njJkgEKrI+4cgdSfUcY+ufavHpUalWrTnFXjLrr0dv+G7n1Oc5/Rqp0MLfm/B91f8AM3fDVq9q11HLL5jBY1ILbihA+7nvW9iuV8ERAR3UsrSNcSNu54XZkhSPXO3rXWYr7jC4WWDpKhLdHxmGxMsVT9tLq2Jin5puKdXRI6UGaKKKgoKKKKACuLsviNbXnxMuPCf2Fkij8yKHUPNys9xGiSSQhccFVkBznnB9K3/E2u2/hnwvqOtXfMVjbvMV/vkDhfqTgfjXiU+meN9H+G+nahL4Wt1vdIvTr89+NTBmldizyhohH3RipG7oB1xQB7zHqNlLfXFnFeW73VqqtPAsql4gwypZc5UEA4z1rNtvEtvfa9bWmnvZ3dhcWEl2t9DfRtkpIqbRGDll+Y5ccAjB5Iryz4nX0PiC/wBOvvBn2ue5l0k3GsNYOFeTSXwxjPX94edgHP3vWtLV28PXuvRfZrv7H4em8C3ircWik+TbmWEblABPC9sdqAPR7TxRoF+Lk2Ouabci0QvcmG7jfyVHUvg/KB6mrT6pp8WnxX0t9bJZzbPLuGmURvvICYbODuJAHrkYryrRC2n+LfCtlqqeHtft7uCa303UdLVoJ0i8kljJCCUaMqoGc4BI4qLw2k93r+j/AA+n3NF4U1Ce6uS3O+CLabLr6+eh/wC2J+tAHqH/AAlGgC8gtDrmm/abhmSGH7XHvlZWKsFXOSQykEDoQR2p9t4j0S8a7FprGnzmyBN0IrpG+zgdS+D8uMHrjpXjt1o+nv8AAnxRcG0i+0Ta3cyPMFw+4X+0EN1BAAFb/jfT7PTfFix6daw2qHwlqkZWFAgKr5W0cdhk4oA9Bj8T6BLdS20Wuaa9xDGZZYlu4y8aYzuYZyBjnJ4qfT9a0vVrFr3StSs720UkNcW06yRjHX5lJHFeWy+HtIXSvhRCNPt9hniLfux8+bN3O71yyhjnqayvHULW03jyKy22tkb/AEh70rDvjSEgeYzICNy4A3DIyAcnFAHraeLvD0+m3l9aa5ptzb2KlriSG8jdYv8AeIOF/GqOgfEDw/rnhW01w6pYWkNwhZ0mvI8wsFDsjHOAyqQSOwNcaukxf8Jxpc114r0a7u1066EdjpWjmL7TbmP+N1lcBFbYy5GCRgdaz/D9tY6hovwfheOGeL940iYBBkSydhkeoZQefSgD0/SvEcOq6jqUcDWb2NmkMkV5BfRyiZXQsWKqcoBjgn7w5HFWtL17R9cWQ6LqtjqIiO2Q2lykuw+h2k4ryPxkkcWqeM0lUppS6hog1FYhgC048zIH8OOvtntXf28nhVPiBZQ6XZxPq7abIRcWWPLhtg6YWTaQPmYjbkH7rYx3ALHijxZLoeoafpOlaXJq+sakJGt7UTLCgSMAu7yNnaBuHYk54FUtP8d3f9oX2leItBbSdWtbB9QihF0s8VzCpwSkgA5BwCCoIyDzVbx5/wAIve6/pGmeJpbzSrtkkm07WYbj7MIpBgNEsu7hyCDtIIIHrisGHVNR03xDf+G4fFJ8U6bLotzcSPKsbT2DKAFDyRgBg+44BGeM9KAPQfDviO11/RdKu90Nvd6hp0OofYvODSRpIoOexKgnG7AGatvrGmR2l1dPqNotvZu0dzMZ1CQMvVXbOFIyMg9M15h4Eu7ez8R+ETeTxwCbwJarGZWChyrISAT1IBzj0rDsL+y1PU7C9uZIpfDU3je+aeSQgxO/kn7Ox7FS+CCeM7aAPaNO17R9XYLpOq2N8xjEoFtcpIdhJUN8pPGQRnpkGoNd15dHn020hg+1Xup3Qt7eDftyAC0jk4OFVAzdOTgd64/w/wD2N/wvnxB/Yf2bP9jW32z7NjHnebJ1x/Fs2fpWhfFn+Oujpcf6mPQLp7bP/PUzQh8e+zFACW/jPxHquua1ZaD4ZsbmHSbw2jzXOrtC0jbFbIUQNgYYd61PC/i3+3W1S11KxOk6lo8wivrZ5hIqbkDq6uAMqVOQSAfUCuI0DRdd1PxF49fw/wCKbnRZV1hlREtYJo2fyY8M29C3oMAjpXO3s0bfCfWo38+21uLWrdPFMl3/AKQ+BKoMjAbN0JQAgKFBXI9TQB7bpev6Prfm/wBi6rY6j5J2y/ZLlJdh9DtJx+NaFeU2+kIfH2kSz+J9F1C9/s+5WPTtL0kwfbLdo8bZJFlcKgbaQSMZyB1rO/4QD/qjXh7/AMHn/wBpoA7LUvHWox6vrFroPh7+07fQwv2+d71YDuKCTZGpU7yFI6lRnjNbEni/So/BUXijfIbCe3jnhUJ+8l8wDYir3diwUD1NeczaNo/inxB46m8WazNo1xBP9kMVvd/Zl+yLEpjmkUYEwbc339wwNo6VL4bHjTXdM8K65PoGmXNpZ6cj21k98bNUnIK+cUETj7mNoGAu5sdsAHVab8Qvt/wysfGj6W0VrNiS6hWfc1tD5hRpM7Ru2gbiMDgH057NWDqGQhlYZBByCK8r+EzTXH7P0MOr2sMNiLGdUkWbeZYiX3Fl2jb3GMt6+1df8N5Jpfhf4Ze6LGU6Xb5LdT+7GCfwxQB01FFFABXO+OfEc/hnwy11p8cU2pXM8VnYQzAlZJ5XCqCAQSBkk4OcA10VeX+LDrXij4sadpnhmWwQeGIPt9y1/G0kP2iYFIlKoyncE3MOR1oA6Xw142h1L4ejxFrS/ZJLNJE1OOKN3+zyxErKAq7mwCpIHJwRWjL4r0jzLGC3vo5LjUrV7qzCI7q8SqG8wlQdq8jk4znA54rzfStZufhr418QQ+PbmwWx1u2bV4pLKJkhMyAJNGqOxJdhsbGTk/Wqfw/s5PB+sXEHiLTlsZPEli82kEuz/ZI1Lv8AYMt90qrB8DAJLD+EUAegWXj7TLfwvot9rt/DJd6laLcKum2txKJRgbnSMIZAnzDlgMZGa1LLxfoOpXGnQ2OoxzvqccstnsVisojIEg3YwCuRlSQfbg15Np8mlWfhPwReXHiC+8Kan/YCRwawIka0kT5SYZN+VLZwwBx9e1aC3N9N8N7XxXNbW6T+HdakvY7m1tPsy39pvKTTCPqu+N3Y+pXPegD0TUvG/h3SLi6h1LU0tntJooJy8b7Y3kQuilsYyVUnrxxnqM0h8TvCZjmI1GYyQNtktvsNx568Z3eTs8zbj+Lbj3rh0sWm8I+F9X1GPN14g8W22qzK4+6JCxiX/gMaxj8K67TI0/4Xf4gk2LvGjWQDY5wZJ8/yH5UAadz4/wDDFrDYyyaqrLqNu1zZiGKSVrhFKg7AqksfmHyj5upxwcVT8UfBwto7j+2QYnOGcW0pEB3FcS/J+55BH7zb0rg/hzGja14FLKpKaPqhXj7p+1IOPwJH41Yuoo0+FPxUZEVS+pakzED7x2LzQB6HrXjXQPD94LXU75luPL81ooLeWdkj5+dhGrFV4PzNgcVk6v8AEjTtP8TeHNOti13a6zG832q3t5Zl2bfkKFFIOW68/KOTgEGuHQwaF448QS+I/FWq+GEv1tbiznt/J8m8jWBU2hpInJdSpGwHPIwD1q1po0vw1N8O7lX1K00ozagEl1lVSVWmUlA2wBV3EkqMDgjjPFAHVa38TNHTQ9Vk0HU7c3tjFKTLd2dy1tC8blWEjInBBB+UHcRggEEGtrXPGugeHLtbXVr5kuWj83yILeSd1j/vssasVXg/McD3rzS6RV/Z18ZFQAWvNSLEdz9qcfyAroY9c0zwb8T/ABVc+KZ10+LVEtJbG7nB2TRxxbGiU4+8rhjtHJ35xQB6BY31rqdhDe6fcR3NrcIHimibcrqehBrzzSPF3jnxTocniTw3aaD/AGbvl8jT7lpjdSqjFdrOp2xudv3dpxkZNdf4VumufBtndQaGujGSJpItN4QRgsSoOFG0sMEjHBYjnFeWXN/8N77z73VUvfBfixt32m2sJZ4bpZsn7oQBZsnkMFOc+5oA7+28ZXVz4i0G1lsGsLbUtInv7iG6iZbi3eMxDYRxjG9s8c4GK2P+Er0b/hHrLXPtn/EuvmhW3n8p/nMrBY/lxuGSwHIGM84rz3RG1u98ReDz4jV/7Xl8NX4nEihGLF4du4dAxGMjsc1g/wDCU6Y/wi8JeHoZXfVba+023vLTy2Elo0c6bvNBHycgAZxnIxmgD1TVviD4Y0TUJ7LU9UEU1sAbgrBJIlvnkeY6qVQnsGIJrb07ULbVtLtdR0+TzbS8hSeCTaV3o6hlOCARkEcHmvKINc0vwvoPjfQvExK6pd319cR2zQln1CKYExtGMHeNpCkD7u3BwBXd/D8MfhX4YEbBXOi2m0kZwfIWgDn/ABB8QdUtfA/iHxJo0Nm1vZX0dlp5uI3YTETpDLI2GGV3MwUDH3MknOBJ4l13xt4N0GfX9Vn0DUrCyKvc29taTW8rRlgDsdpnXdzwCOa42+UN+yPBC25JI/s0MwBwyyLfIrjPruB/Gtnxz4UTwr9h8TCbVdd0bTplfUtL1HUZ7pFjz/x8IruQWQ4OCCCOeMZoA7rV/HHh/Q7hLfUb11naITGGG2lneOM9HdY1YovB5bA4NT3PjHw1ZWlpdX3iHS7WC9j8y2knvI41mXj5lLEbhyOnrXl73djYeP8AxJqGseL9T8PWmrfZrzTru0MPkX0PkqoCs8T5dSD8oOcMMA9a3dC8OagfBOkR+EIrMWf76Xb4tsDLcgPIWBAiZAinJOMdCvSgDsYvGXhy606/vdO1ux1GHT4GnufsFwtw0aAE5KoSeinA74rD8D+O73xbrHiOG70iXTINLaD7PBMhFwySRlwXXJAJG0hRyM4PNafhXS9c06W5OuJ4fVXVRH/ZFk8ByM537nbI6Y6d6wvC9xFafFH4lXNy4jhhksJJHPRVFoCT+VAEN14y8X6X4eg8Vaxp2nWukSTRiXS5I5EvYIpJAikuzbS43AlNg9M5qwvivxTrVxrt34ZtdK/s7RbuWzMN55nnXksQ/eBWUhYhngEq2cdhXI6f8QvC/jrXrfVfFPiGzsdMs7nfpmiNJ88kinCTz46tnlU6DgnJqzrl1oGm614phu7rV9GvZ5mb+xLO4ymtlo12yxr5e7Ln5WEbDlTuNAHUJ451HxNeaXZeCksopLzS01We51FHkWCNztRNiMpZyQ38QAC55yKWPx1qI8G3ur3NjAlzoWoPa61boWYCOMjzJIjx/AyyjIPGV681y3ha1i+GGt6PN4rmFjaXPhuCze6l/wBVFcxuzNEz9BkScZ67SK1tE8pfAPjzxBfQyRWOr3F7eRLMpVnthCI1bacEbtjMPZhQB6ZHIksSyRMHR1DKynIIPQ06sLwPFPb/AA98Ow3gZbiPS7ZJQ3UOIlBz+NbtABRRRQAUUUUAFLikp4HAqoiY3Fc5qRR7m5lTyZGs9SgkcNyUBRFJA9fmP610uKwLpYrxfENlFIv2mRDlUdQ+PJUDkg4GcjJHetab1Zz1ley/rYoap5dv48tNRYW4iig8meV2+ZSzbRj0ILpnPZx2zWjc31veWE0TRskjKyXCoA0kIU7S2MfMAcfgc47VXs47G+ay1iK7LWd6Y5Yd6cyu0ZUhhjAyoX05GPSrCwWN9rV3Jn7NqlmyCRkkyQn3lYDphlJUnHYjnaMayktE+hEYWu11dytpt59lsYrK/gaWS02x2t3cSKyXrbRhkkPRjnHPfIBPNEOty2ktwb1Gnjtog85MYS4gXJ5dBwycH5kP4d6tyS6VZR2enm3txp2oNtt9uCjyMS+Me/JB9c9OMrLqdtpGmJIkrXVpBIYZ5jNvkiOehzy2M4xnPTrUuzd+Xc1UXor7GdNqOo5TUYpDDZ7lkfzruAW5Qjgbyu9Scrxj8ea0YfEVjJZxs1zZxXcqkpayXkeWOSANykjkjqM1oWdnZ26vLY28MK3BEjmOMJvOOpGOuKparDZxrBbHUZNL892CLalIzMxPI5U85PUYOTU80JO1ilFrW5DpviGxubcvPdafEzXHlKltciZWYgEDIA3Mc5wAas2+poBfSXslpBHbSbHZJd2wdg7EAbvYdMgfWfVGtY9Pka9uWtIARvlSQxkcjjcORnpxg81Khi+wqYpSYvLBWQsSduOGyc5OO5qXbdIqzKsGoLPqQiDwBGgE0K5bzip6sykfKvbnnIpkl/He+SlrMhtroMqXUbAkuM48sYOSME7unAxmrOkyWs+lwyWM8lzbkELNKzMz4YgkluTzn+nGKrWV1F9reztLr7XKkzm4+0OQ8YAH3QFwQCVXAwOvJOcml9th2LUUqLbyRwM109sNjAtlmYDOCxwCTxz6nmnWxxGkUjqZlQF0yCVz9AOOCM4HShZVtUjju5VDO4ijZmyZDjIzwBk4PFMjfytUkjkficBog8uS2B8wVMcKOCT3LfSpGMsFL3N5I0jhml2mAyKwiwoxgD7u4ENg5PzD6VJDCHgkS53yeeWLRT7ThTxtwONuOO/vnNRW+bG4uBdeXFFLOoimebLzswHBGBjBwqjJ4FWSgS5aaQfLsJ8xioEYGMj1wep7fLQxC26sHY4ZEHypGQuABnkY9ff06CojEZrqSO4hEkAEckbPtIDgk4AxnIKq2T3PHSpZfN+SS33ScEbAwCnPc5HbHb1PWkgLJbIbttkj43B3B2sT90EAZwTgevFFwIvNLXCG3xNEWaOXa64iIB5PcnOFxnjOaTy5f7VywWSIR7kY7cxN0IHc7hz7bTzyMPhj8hrmWZhFEzltrbQq46tkevXnkc1MYcziRNqnG1/lGXHYZ9sn86AKsyR3VxBIhjnSCYhk2q+x8Y3ZJyrKfTnBIx6OuBHcN9nWeMEYaWJgG3xnIwV6gHnn1HfkU62kEkk020RR7iCflIkI/wCWm4H0456barz28smrxXdsG2x27A7FjK3IPRCx+ZcHBGDj5jTVgH2l59oTZcQfZZyXAgkdWLquBuXB+ZcFfpnBwaSykhhkexhtZLeKE4iY48twT0UgnvkbeCMdMYqCytLaa5t5AI4zbR/JZEIzWrEkEgryOhGM4OPanXuiWtzNGi+TDE0rTTW/koRcNgDdzyGH95eeeetPS9gHwm2s9Qmhhs2gWY+a86AeUz984Pyt05IGeOuKjlis7DWFlj0y48+6H7y4toSVJyB+8x39yOADzTtR0e3uVkaMW0FzOAjyyQK/mgc7WU43dBz1GOKhvPDtrNZolrBbxzxx+VG77yqLzkAKwPc4OcjNNOPVku5b1DVbbSzGt1IyvNu8pAjtvIGT90Gsqw16HULkPeG0jiCsUO2X5COuXZFXjB9KuWfh+GK1hSclXjJLJazSxRMc55Tec9uuaTVdKsbicXut3TPa27pLFBM4WKGRTw/GCxzjhieRwOaLUmuWWonzXuihKulX91NLLA89tO3lPLdF9mSm3EEZHPB5ZQB15POGS21hpTW+l6FDC97CB5pMgEsEBHLF8HbnAHP4dKvT6R9vuvtemy/Z471Cbi6Bf7QBtAURbuIwQDnAHY0260+KS1LaJHHKbUmN7bhEuWB+68hBJCkk8cE5B71X7vmT+RN5qLgtr3JtOstN064e5s5MLqGwopPy4VeNo7DGSfrWH4eeKXw/rmq3FzMPOaUtI67HRAuQcEcZBz0xjbxWmNMmL39vqF79sup4X+zomUMcZ+8MnIGXbH+6FHO01Vitb37BcQ3OYzPLFbyRu21Xd2DTFScZGGKAj+6frWkZJJq/b7l/X4HNKkrppWsn+P8AX4l3wzbx29rDFAWaOOwt0ywOc/M2OfZh+dbuKzrKAx6/qTrK7xyLEWVjwj4OQPw2mtPFY1JXlc6KEeWFhMU2n4plZSN0FFFFSMSiiigCtfafZ6naNa6laQXluxDNDcRCRCQcg4IxwQCPcVO6LJGySKGRhhlYZBHpTqKAKGmaFpGiCQaNpVlp4l2iQWlukW/aMLnaBnAPHpSWeg6PpxQ6fpVjamONoU8i2RNqM25lGBwpYAkdCea0KKAMuw8OaLo801zoujadY3MqkPLb2qRM/wDvFQCRmsrwn4e1Kx1TVtd8RmxOr6o0autjuMUMMa7UQMwDMclmJIHJx0ArqaKAKR0bTDp8lidOtDZyuZJLcwL5bsW3FiuMElvmz680+502xvJvOu7K3nl8p4N8sSs3lvjemSPunAyOhwKtUUAVTptiVtAbK3IsiDajyl/cEKVGzj5flJHGODinLYWaz3My2kAlugBcSCMbpgBgBj/FgcDParFFAGdpfh/RtEaU6NpNjp5mOZDaWyRbz77QM0lp4d0WwkR7HR7C2eOZ7hGhtUQrK67XcYHDFeCepHFaVFAFcafZrNczLaQCW7AW4cRjdMAMAOcfNgcc9qg0vQtJ0RJE0XS7LTllbdItpbpEHPqdoGTV+igCtf6dY6rZtaapZ297bP8AehuIlkRvqrAioNP0HR9Js5LTStKsbG2lz5kNtbJGj54OVUAGtCigDMu/Dmh39jbWd9o2n3NrZgC2gmtUdIABgBFIwuAAOPSs3xD4euZdI+z+GLfSYle4M13Y3lqv2e+UqQyyYUkEnadwBPyjIIrpaKAON8H+D7jR9bvNY1C30yxlmtorO3sNJQi3tokZ36lV3MzOTnaMVqeINCm1HU9G1XTnjjv9KuSy+aSFkhkGyaM4B6rhhx95F7VvUUAV7axtLOSeS0tYYHuZPNnaKMKZXwBuYj7xwAMn0pg0vT1vbi8WxthdXSCOecQrvlQdFZsZYD0NW6KAM7S/D+jaI0p0bSbHTzMcyG0tki3n32gZrRoooAzdQ8O6Jq11Fdaro+n31xD/AKqa5tUkePnPylgSPwrRAwMDgUtFAHPa94a+2eD38O6ClrplncYt5lhTy1it2P70RqoxuKlgOgBbPbB3YII7a3jgt0EcUSBEReiqBgAfhUlFABRRRQAUUUUAFFFFABXP+LvDt54o01dMi1Y2FhPlNQjSAO9zCcZjV8jy8jIJweDXQUUANjRYo1jjUKigKqgcADtTqKKACiiigAooooAKKKKACiiigAooooA4/VPCGvXr6lbWvi6a30rUmcywS2gmmhVxhlhlLDYvXAKttzxXT6dYW+l6Xa6fZJ5dtaQpBCn91FUKo/ICrNFAGRomgrod3qZtZ82l9cm7S22Y8iRh+8wc8hm+bGOCW65416KKACiiigAooooAKKKKACsjxJoQ8SaWmmz3Bis3nje7jCZNxEp3GLOflDEKCecruHfI16KAEAwMDgUtFFABRRRQAUUUUAFTKPlH0qGrCj5B9KaEIRXP30iWmsT6jbpG6xBLW7TaQ2XaMhgcYbCsK6LbWFFPcWfiSWGWAJFfzuY3JyTshjx06A4fr/dHqK0huyJK9jJ/s2MaidD02R4rOMyMREyr5AZt5CLjAMb+URwSBIO2amvrpLu3trtvNttRiDxTeQWLRbTtLbQP3qrJsOD/AAsTjnFaksi2Tat/ZcDS6gFW5eJy2JSV2gqM9wmOO4q5O1p9osZLnKTGQi3LAghihyDj/ZB4PGQO+Kvnd02LlRiXC+TbXenXlmFkuCJYjHK6RSOcZCv/AMs23dBxknPc1JaGSJvt1xA8tu8TR+dIrJMqjPE0fRsYI3AZ/AmtCZ0k0S5/t+CNYgpW4XG6Nl9R32kevNWLaWaS4kBjU2+FaCaNgQ6kDIPvnPtgjvmp5tB8pj6SF0u3lu55Ba2IzmGIiSDczA+ZGR8yqSTkHABJPQZN2DV86qbWZrXypIvOgeKYlpE68KVw3GTlSe3HNVb62/sfRvJt55d3n+ZbBmMaKSciNnRcBScjLg5LDO41YudZkS2drWJTcW203NtKsgKqepUqrFsHuAQcHp1A9dRrsJ/bHm3lk9lJbzWVw5jZh5nmK+DxgLgEHAIbbjn0xUl3qgjSSS3ZSlrKFujLFJlV77ML8x6dMip21FJQEsHV5poPOgZ0bypB/vAY/DqM5xUVlrC3Gn208sUyvNKYWSO3lbY4JBzlAwGQfmZVFT8iiae+G829qA940PmxpIrqhHTJbGB9OtNaO8iiaSArJPKyb0lkbyo8DB2jGfw7mo0v7xbWSSe0VXgm2zLH5r/JjO5P3eZDyOAMdRnirsTytdTRSxqqKAY2Usdykc5+UAHOeATxg8ZqQIp4o1uo715Zl8pGjCK7bDuK8lR1PAwe2T70t0rwJJcwlS4QDEz7UUZyWzg445PrgVYVg0jqFb5CAcqQDxnj169qYmxJyhc75MuFZieBgHHoOnT196LgQzLFLPAwmO4BnjiWQASDHUjuBkc9simXE0UtijS3HkZmjRjGwb5/MCmPOOQW+Q8dz07X9vtUUoRCJpWZFiBYncQAMc5Hf8aLgNgkDSPG2xXT+BXyQpztJHbOD+VRz3VrFBLNNNGIoGxIx52EYPPoeR+lWBJFvRAy7nUso9QMZP6j86hWWMskyzlkmwsa5G0nk8cdcfyo6gJLN/pMdusSy7yfNBcfImD823qRkBfx9qhiuYLW0tozd/a3lG2JmkTfcEDJI6AnAJ47CrVtB5FtHCXkk8tFXfK25mwMZJ7k9zTljKs2WZwzZGcfLx0HHSi4WIbeNFaeNZ/NHmElCQfLyAdvHbnPP970xQ4ltrV/KU3LrkqhKoTzkKOMDA4H6+tOgUSTNcR3DyRuoUR8bAQTkjjOT0POOBUwZGdlDKWXAYA8j60AUmthbXTXawtcSSsqAKkYMKnG75uCRkbjyT6DtTrsWrxiaaOKdrdt8YJUlXAONpbgN+IqFtXV7Oa4tEjuYxIIoGW5QCd84Kgk4BDZXB7ioJo9N86a3utOsRbKPtNzJIYtqSHu6nuR/EfzqgLdzb2OpWoh1K2hlTAkaC4VX2H3HIyM9f1pnl22q6aYbyzKwTfKIJ9vzqDkHAJ4OAcHt1A6VBeR6XLcCNrG1u5tRTy5cLHukhxyzEnLIAB69hT7uTT7S2jvIrNbk27fZ4xbIrNFk7So5AXHQ8jAFC6WEO02WyQTWljaPaQ2rlCDbmKPOTnbwARnJyPXNZV5JFqWrSW2rymK3siZGigZwi4G5XmlwAuAAQAeM8mrOq2Nta6bDZ6dZKZfOV44ViaRQSeXdQQDgBiCxxkAe1Ty6ZNf6hZTz3ols4ITuiX7ty7DG9gOMDGQORz2q00veJeqsZMtzPdST+TdT+VcHYJrqBtjxu3EcEYI3Hb/ABnPY8gnElwW02RLTT51FpZwqkUeG2xS4YlppAcbAozs4OfquNSe3ttaYtEzI9tIYGuFQZZcjzI1bqASoViO4I7UG00yNhpEFrEoYtd+WseUR94YO2O5c5HqQfSnzoXKZl1NJbaU0rPsu9UbdK+Spt4QvzFcjPyJzzg5P0FQRagNaNprM5kg0zS4WupACWWVymVB7kohBPUbmI6ite20610g293eztNfMgtWuGLfvWeTccICQMuc8DgewpIvDsaSXiyzvJb3DIyx9CCHLtk9DuY4PA4AHNNTikLlY7Q7WZGv7u4kkL3d27eU4wIwhKLjPOCqg/jkda18VkaHfxaleX9xE5ZG8powx5VDGCOO3JP61s4rKbfNqVTSUbIbioKs4qtUMsKKKKQxKKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBaKSigBakEzAAccVFRQBN57egpPNJ9KiooAhezifVotRA23EcTQkrj50JBwfoRkfj6mjUbOLVLM290Pl3pIrDGUdWDKwz3BANTUU+ZisRi3Rb+S7BYNLGI5Ez8jYJwSPXkjPcdegxNCVt4UhgjSOONQqIi4CgcAADoKbRS3GS+c3tUQVRcNOM72UKfnbbgZx8ucA89cZNFFAA6rJNFI4O6Ikrh2AyRjkA4P45qUTMPSoqKAJvPb0FHnt6CoaKAJvPb0FJ5pznioqKAJvPb0FIZ2PpUVFAEnmn2pfNb2qKigCbz29BR57egqGigCUTMPSk8z5iQFBPXA61HRQAuE27fLjxncBt6HOc/WlYI2/dFG28YfKg7h7+tNooAaYYjIZVijSby/LWVUG5V9AfTnOOlQpptmsFrHLbQTG1wYneFMq2PvAAAAn2AqxRTuwK39mWRW7V7WFlvH3zr5YHmdOGwBuHHfOckdOKuI/loERVVVGAAMAD0plFF2wIbq0S7ktzI7qkEol8tDhZGHI3euDhvqB1pLmzFxBdIs0kD3KBDNEEDouMYBKn1J5zjcanoo5mKyEWKFI4UWJNsGPKBGdmAVGM+xIzUcFssC3W15GN1IZJGLc5IC4GOgAAA+nrzUtFF2MS1iis7eOG3jVEjQIoA7AYFT+e3tUNFICbz29BUVJRQAtFJRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFcn8QdZ1Hw3pFjrljcbLKxvojqkXlq3mWrNsc8gkFSwbjHCml8da1f2drpOmeH7kQaprN/HbQzBFfyoh880mGBBxGrdR1YUAdXRXHH4m6SF+1/YNTOjed5J1oW6/ZA27ZnO7fs3cb9u33xUFp41Gm3Xi6fxBdO9ppuqR2tpFHCGc74YisahRl2LucZyefSgDuKK5rTPHNjeajJp+o2N/ol4lu10sOpxqnmQrjc6srMpxkZGcjuKq6d8SdM1G608f2bq1tY6pIIrDUri2C29yxGVC/MXXcAcFlUHtQB19FeW6f8QtV+1+DbeG31HWINVF01xdC0ghabYzqFC+ZhdmAWx1XbgkkrXWJ490pvBV74meK6jt7F5Yp7Z0Xz1ljkMZj2hsbiwAAzzuFAHTUVzfjq71q08C32o+G3aDULOMXSxNGrmRUIZ4iCCMlQwyOc9Kq+K/F5tvhv8A214ecSXepxRR6XkZ3zT4WI4PHG7cQfQ0AddRXGP4/ttMhmgks9W1lNKAh1PVbO0QwxSIo8wsNwJI6sI1bbyOMYq7qPjvTrS7tbTTLS+1y7urUXiQaZGrkQH7sjM7KoU9ucnsKAOmorzp/iXLf+MPDVroemahcabqUV0bg+RGjh42RCpDuCvlktvGM8rt3citKT4n6RGst39h1R9GhmMMmtLbg2isG2k53byobguFK+9AHZ0VzT+OLVvFlx4estM1K+u7VoftMlvGhihSUAq7Mzj5eT0yflPGBmuloAKKKKACiiigAooooAKKKKACiiigAooooASiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiq0Wp2M+oz6fDe28l7bqrTWySqZIg3QsucgHtnrQBZooqH7ZbfbvsX2iH7X5fneRvHmbM43beu3PGemaAJqKKKACiiigCrqmnW+r6Td6bepvtryF4JV9VYEH9DXnHgPR9c1PVzL4ptbi3fw9pzaLaS3ERH2iQsRJcoT94MiQgEdctXqNFAHhOleFbSx8IQeG9Y8GeItS1qL/AEWSCPULyOwuF3Y83zQ/lIhX5iuMg8ba2tR8OasbvW76z0y5l/s7xTZ6nFbBSDdwxW8asIy2AxGWxzyyY6164SFBJOAOST2pkM0dxCk0EiyxSKHR0YFWUjIII6igDzHxDZX3xJ1eEadpd9ptnaaVqEDXWp2rW7NLcwiJUVGwxA5YnGOBg1p6F4k1x7DQNEs/DV5Z30Hkw6o15aOltbRIuJDHLkLITgBNpbrkjiu4hvLW4ubi3guYZZrZgs8SSAtESoYBgOVJBBGexzU1AHkOgWOpaNp/w9vLzSNRKWUt/FdJFaO8kBlLBCyAbgp9cYGQTUupaLdP8Xv+EbRC2jandw+I58dFaFSjoR6NKtu35/SvUNQ1Ow0i0N1qt7b2NupwZrmVY0B/3mIFc/4csdAguNT8TWWvnWDdDEl/NeRzR28Kkv5SMoCqi7ieee5JoA6kgMCCMg8EHvXlHhfw5qieMrPw9f2NwmheE7m4u7G4ljPl3Pm/8e6qx4YxLJKD6FVr1SGaK4gjnt5ElikUOkiMGV1IyCCOoI70+gDxWLw3baHJr1lr3hrxJqd3Pf3FxZNpd1drb3scrFlDGOQRxEbtrbgOmfmre0q0m8BeJmvH8PXg0u/0eztkj06OS+axlg3gwkqC7KQ/D4wdvOK9MqK5u7ezjWS7nigRnWMNK4UFmIVVye5JAA7k0AeczXGv3Xijwjruu6NdQKw1G3eOygeR7RJmjEHmhS207U+Zvug+lZVsNXsPhJP8Pf8AhG9Sl1n7JLpscotj9kkV9yifz/uBdrbiCdwPGK9DuvHHhOxu5bW+8UaNbXELFJIZtQiR0YdQVLZB9q1rO9tdRtI7rT7mG6t5BlJoJA6OPZhwaAOR8G6RdaX4z8Si4gkEJh0+KK4aMqk3lwFWKk9cHrjpXa0UUAFFQ3N5bWSxteXEVuskixIZXCh3Y4VRnqSTgDqTUGqa1peiW6z61qVnp0LNtWS7nWJSfQFiBmgC7RVVtU09dL/tJr62Ww2b/tRmXytv97fnGPfNGn6rp+r2Yu9Kv7a+ticCa2mWRP8AvpSRQBaoqhp2vaRrEs0ekarZXzwHEy2twkpjPowUnH41btrmC8t1ntJo54X+7JE4ZW5xwRxQBJRRRQAUUUUAFFFFABmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUARXd3DY2c13dOI4II2kkc9FVRkn8hXgGg+KNIsNa0Pxy2t6e2p65qk8Wq2KXcbTRWs+FhDKDuAi8qIn03NXtPjHw9L4q8K3miRX7WC3gWOaZY97eXuBdQMjG5QVzzjJ4NVtc8B6BrPha80T+zrW1iuLYwJLFbruh4wrD3BwfwoA5vx14v8QeDPEixW7xX9v4gjW10mKYxxizvchfmOAWjIbcSSSCuOMik1G88Q6R4muLayMWs6zbeEzMkklrEj3FwJsdVUEKT0QED8eauj4Ypqi3TeMtV/tuaTTk0+3cW/ki2UAFpFG5v3jOoYt7AdBViPwHfzSfaNT8S3Et82iHSXvbSI28pbzN4nDBztbpx3OTxnFAGD4Y8Tajrepy6XZeM2lvJrGXzbTVdNW0vLOfA2PEnlhXQEnIbdjA5PNXNO8banrmkeDLS0l8jV9SuGGpkRqfKS2yLkYIIXc4VB6b+O1att4T1BNd0/XfFfiGPUjoscrWvk2IttpdNjPIQzbjtzwNo5zjpWN8OtNstR8ceJ/FulStNpV1P5OnOVIViyo1y6Z6q0ijnuVNAGQ3iTxqvw9/4TCPXoneLUzbR6e9nGIZo/tn2ceYwG8Nk5ypUYA4JyTp65rfibwvfa7Yza82okeF7zVbaaS0ija2nhIUbQq4ZfnBw248ck1uf8K//wCLdf8ACK/2n/y+/a/tX2f/AKfPtO3Zu/4DnPv7VY8S+Cf+Ei1K9u/7Q+z/AGrQbrR9nk79vnFT5udwzjb93vnqKAOakvvGkGo+FIm8SRu3iRHS4jNjHssyIfOLQ8biQFYfOWGSDjtVTU/HPiDw3Dq+jT3kmp30Ot2um2t+LESSrHNAJyxhiADsqhwAoGTjIruZvCvnah4XuvtmP7ALnb5X+v3QND1z8v3s9+mPeszVfhxDq17rN3JqUsFxfX9rqFpNDEA9lNBEsasMkh87TnIHDEe9AHNprniG9/tTR2u9euLC40uaUapf6EbOS1lT+DLRLGyupIHy5GOvPEWgTeIrXw38ONF0zxBLDHrGnl5p3toWeCNLaN1SMbMfLyAWBPzEndgV2tl4X1eS8ubnxH4kl1DzbR7RLa1g+y26BurlN7bn7BieBnA5qpongS70xvDH23WUvB4cjlgg22flGSJoljRW+c8qFyT39BQBzk/iHWNE1fxJYWMtvcalPq+maZBeTWsafNLbRFppAgXeQNxAJ44A4GK7bRNN8S6bq0i6rrqazpjwZV57dIriObPQeWoUoRnryD61nal8PINUudenm1CSKXU721vraWGMB7Ka3jRUYEkhuUzyBwSPermjeF7638RHXfEOrrql+lsbW38m1+zxQxlgzYTcxLMQuST2GAKAMrx34c1W98SaNr+maXZ6/Hpscsb6VeyiMEvtxLGzAqHG3HzdjwRXNi40V7rxWy6JqHhjXZ/D032jS5kjW3uY1DYnUpkOwLbc5HB6d67fxF4Qn1PXLbXdC1iTRdYggNqbgQLPHNCW3bHjYjIDcgggjJqjF4BvbqTUL3xH4gbVNTutOl06CZbQQQ2sUg+YrEGOSSFJJbnGBigCt4J1e9bXtN0Zps2EfhOwulh2LxKzOpbdjP3VUYzjisuDxhr+p30GgWuorb3uo6/qlsl6YEY21raueFXG0tgooLA9STmt4+Bb+zvtMv8AQdfFjeWmlxaXcNLZCZLiKM5Vgu8bGBLHOSOcEGuc1LwtZeBtE0w3mv3cF1Dq9xd22utZq8ds0wYstwoIBRh8pI2gnH3aAOg8LXviGD4h65oWu6wNTtbSytp7SQ28cT/O0gYvtABbK44wMAYAyal1Sb+1fi/o+jyt/o+l6dJqzR9nlZ/JjJH+yPNI9yKx/hylzqHjrxHrp1VtZtJ7a1t01FYPJglkXzCywrz8ihl5y3JPJ7bOuwnSPiVoniFv+PS7t30e6ftGzurwMfYuGTPq6+tAHHeG/Ekfh+58dT3PhbVdXt4vEd1LJdWUEMixjZHlSHkVsjGTgEYPXrhtjq994S8DX3iDSreGAeKdaiOnWlov2pLNJQql9kfDuQjMUTPzYHrXo/hjwz/wjcmtv9r+0/2tqsuo48vZ5W9UXZ1O7Gzrx16Vz4+Flumm6rpcOqSwabcXyajpsUUQD6XcK24tGxJBUtzt2jGSO9AFDRfFOvw+IDZvcarfadNZTytqGtaG9iljMgDKXcJGpjYbuOo2/e5qKHx1rDzIp8ffDdwzAFUkfceeg/0jrXWaX4c1ldY+3+I/Ej6mqQNBHZ29t9mtyGxueRN7eY2BgEnA5wOa1hoOkAgjSrEEdCLZP8KAPOvih4fb/hJvDGu3Wp3c4HiTTobWyLbYLcFxuYKPvMSPvHoDgV1niS18O6Nqb+MvEk//AB62f2SJJ8PGgLbj5aYyZHOF45IAGKt+KvDP/CTR6Sn2v7L/AGdqtvqOfL3+Z5TbtnUYz6849DWJ4o8C6zr3jOx16x8R29ounxbbW0udM+0pFIT80o/eKN5GADjgDigDj4/DerQ+HdM1O70Kd9KbxJLq03h+KPfJBbOhEY8rOGKt+8KDoWOBxWT461yWPWPEraJpd5pNnqWgQCfzYDbvO32yOEyGMgMp8uZ1ywBO08YANeoXXhHWNU0WCLV/EUcur2V8Lyx1C3sBEsJC7drRb23gguD8wyG7YzUa/DyLUINafxTqDarfaxbLaS3EUIgWCFclViTLbcMS2STk49KAKXiXTrPQfGXgWfRbKK1f7ZJpxWBAga3aB2KHHUAxqw9MVe8LyHTfH/inQYxttMwapbqOiGfeJR7AvGX+rtUmm+D9S/t3T9T8Ta//AGw+lo62KLZiAKzja0kmGbe+3jI2gZPHNR+EITqXirxH4o+b7Peyx2VkTn5obcMC49mkaTHqAD3oA7LNGaSigBc0ZpKKAFzRSUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf//Z)

Figure 4.3: Axisymmetric taylor bubble rise at different Re

We observe that at low Reynolds Number, bubble breaks at the middle and there are shredding of small bubbles at the tail. At higher Re the bubble shape becomes stable. However, from Figure 4.4, we notice that when the bubble volume fraction becomes low due to shredding, it breaks in the middle. We also notice vortex forming at the tail of the bubble at very high Re.

![A close up of a door

Description generated with high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFRhbmltAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM2NgAAkpIAAgAAAAM2NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAxNzoxMjowNCAyMzo1MDoxNQAyMDE3OjEyOjA0IDIzOjUwOjE1AAAAVABhAG4AaQBtAAAA/+ELGGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMTItMDRUMjM6NTA6MTUuNjYwPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPlRhbmltPC9yZGY6bGk+PC9yZGY6U2VxPg0KCQkJPC9kYzpjcmVhdG9yPjwvcmRmOkRlc2NyaXB0aW9uPjwvcmRmOlJERj48L3g6eG1wbWV0YT4NCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgPD94cGFja2V0IGVuZD0ndyc/Pv/bAEMABwUFBgUEBwYFBggHBwgKEQsKCQkKFQ8QDBEYFRoZGBUYFxseJyEbHSUdFxgiLiIlKCkrLCsaIC8zLyoyJyorKv/bAEMBBwgICgkKFAsLFCocGBwqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKv/AABEIAesC8QMBIgACEQEDEQH/xAAfAAABBQEBAQEBAQAAAAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUEBAAAAX0BAgMABBEFEiExQQYTUWEHInEUMoGRoQgjQrHBFVLR8CQzYnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APaPGnia98OfYvsMUEn2jzN3nKxxt24xgj1Nct/wszWf+fax/wC/b/8AxdaXxR/5hf8A22/9krz/ABX0GDw9KdCMpRu9fzPPrVJxqNJnXf8ACzNZ/wCfax/79v8A/F0f8LM1n/n2sf8Av2//AMXXI4oxXX9Uofyoy9tU7naW/wAR9Ylju2a2sh5NrLMuI35ZVyM/N0ryr/hpfxj/ANA3Q/8AvxN/8drqrQf6PqP/AGD7j/0Wa+dfWvpMhyrBYj2ntaadrfqX7Wdtz2D/AIaX8Y/9A3Q/+/E3/wAdo/4aX8Y/9A3Q/wDvxN/8drx6ivp/7Ayv/nwhe1n3PYf+Gl/GP/QN0P8A78Tf/HaP+Gl/GP8A0DdD/wC/E3/x2vHqKP7Ayv8A58IPaz7nsP8Aw0v4x/6Buh/9+Jv/AI7R/wANL+Mf+gbof/fib/47Xj1FH9gZX/z4Qe1n3PYf+Gl/GP8A0DdD/wC/E3/x2j/hpfxj/wBA3Q/+/E3/AMdrx6ij+wMr/wCfCD2s+57D/wANL+Mf+gbof/fib/47R/w0v4x/6Buh/wDfib/47Xj1FH9gZX/z4Qe1n3PYf+Gl/GP/AEDdD/78Tf8Ax2j/AIaX8Y/9A3Q/+/E3/wAdrx6ik8gyu38BAqs+5774r+PvinQtTtre0sNIdJrGC4YywykhnTJAxIOPSsP/AIaX8Y/9A3Q/+/E3/wAdri/iJ/yHrD/sE2n/AKLFclXJgcjy2phoSlRTbQ5VZ33PYf8Ahpfxj/0DdD/78Tf/AB2j/hpfxj/0DdD/AO/E3/x2vHqK7P7Ayv8A58IXtZ9z2H/hpfxj/wBA3Q/+/E3/AMdo/wCGl/GP/QN0P/vxN/8AHa8eoo/sDK/+fCD2s+57D/w0v4x/6Buh/wDfib/47R/w0v4x/wCgbof/AH4m/wDjtePUUf2Blf8Az4Qe1n3PYf8Ahpfxj/0DdD/78Tf/AB2j/hpfxj/0DdD/AO/E3/x2vHqKP7Ayv/nwg9rPuew/8NL+Mf8AoG6H/wB+Jv8A47R/w0v4x/6Buh/9+Jv/AI7Xj1FH9gZX/wA+EHtZ9z2H/hpfxj/0DdD/AO/E3/x2u28D/GXxD4l0XVLu/s9Mjks5IljEMUgBDZznLn0r5or1f4SDPhbxB/12g/rXi51k+X0MHKdOkk7r80VGpPues/8ACzNZ/wCfax/79v8A/F0f8LM1n/n2sf8Av2//AMXXI4oxXx31Sh/KjP21Tudd/wALM1n/AJ9rH/v2/wD8XR/wszWf+fax/wC/b/8AxdcjijFH1Sh/Kg9tU7nXf8LM1n/n2sf+/b//ABdepV8/4r6Arycxo06XLyK2/wCh1YecpXuzjPGHjDUPD+rxWtlDbPG8AkJlViclmHZh6CsD/hZms/8APtY/9+3/APi6d8S/+Rlt/wDr0X/0N64/Fd2Gw1GVGMpR1MatWam0mdd/wszWf+fax/79v/8AF1z/AI9+NfiPwsNJ/s+y0uT7bbtLJ58UhwQxHGJBxVHFcT8Yv+Zd/wCvJv8A0Ya9jK8vwtXGQhOCad/yZMas3fU1f+Gl/GP/AEDdD/78Tf8Ax2j/AIaX8Y/9A3Q/+/E3/wAdrx6ivu/7Ayv/AJ8IPaz7nsP/AA0v4x/6Buh/9+Jv/jtH/DS/jH/oG6H/AN+Jv/jtePUUf2Blf/PhB7Wfc9h/4aX8Y/8AQN0P/vxN/wDHaP8Ahpfxj/0DdD/78Tf/AB2vHqKP7Ayv/nwg9rPuew/8NL+Mf+gbof8A34m/+O0f8NL+Mf8AoG6H/wB+Jv8A47Xj1FH9gZX/AM+EHtZ9z2H/AIaX8Y/9A3Q/+/E3/wAdo/4aX8Y/9A3Q/wDvxN/8drx6ij+wMr/58IPaz7nsP/DS/jH/AKBuh/8Afib/AOO0f8NL+Mf+gbof/fib/wCO149RS/sDK/8Anwg9rPue+eEPj94p8QeJItPvLDSEieKVy0UMobKxsw6yHuKxD+0v4xH/ADDdD/78Tf8Ax2uK+Gf/ACPMH/Xvcf8Aolq5Q9a46eR5a8VODoqyUfzkP2s7bnsH/DS/jH/oG6H/AN+Jv/jtH/DS/jH/AKBuh/8Afib/AOO149RXb/YGV/8APhC9rPuew/8ADS/jH/oG6H/34m/+O0f8NL+Mf+gbof8A34m/+O149RR/YGV/8+EHtZ9z2H/hpfxj/wBA3Q/+/E3/AMdo/wCGl/GP/QN0P/vxN/8AHa8eoo/sDK/+fCD2s+57D/w0v4x/6Buh/wDfib/47R/w0v4x/wCgbof/AH4m/wDjtePUUf2Blf8Az4Qe1n3PYf8Ahpfxj/0DdD/78Tf/AB2j/hpfxj/0DdD/AO/E3/x2vHqKP7Ayv/nwg9rPuew/8NL+Mf8AoG6H/wB+Jv8A47R/w0v4x/6Buh/9+Jv/AI7Xj1LSeQZX/wA+UHtZ9z6m0L4q65qngzTtXntdPWe6eVXVI3CjacDAL5/WrP8AwszWf+fax/79v/8AF1wPg/8A5Jdon/XW4/8AQhWhivzmtgsPGvOKgrKTX4hKrNPc67/hZms/8+1j/wB+3/8Ai63/AAf4w1DxBq8trew2yRpAZAYlYHIZR3Y+przLFdh8NP8AkZbj/r0b/wBDSuLE4ajGjKUY6jpVZuaTZ6hRRRXzp6Rm67rtt4fsUuryOZ0eQRgRAE5IJ7kelYH/AAs3Rv8An2vv+/af/F0vxM58NW//AF9r/wCgPXl2K9nB4OlWpc0tzjrVpwnZHq1r8Q9JvLgQx296GIJyyJjgZ/ve1cU37S3g5WIOm65kHH+oh/8AjtZ2iD/iap/uP/6Aa+cZP9c/+8a+nybIcFjJVFVT0tbXvcz9vO1z6f8A+Gl/B3/QN1z/AL8Q/wDx2j/hpbwd/wBA3XP/AAHh/wDjtfL4x+Na2leF9X1oqNPtHkDnAJ4Br3a3C+T0I89VuK7uViJ4t01eTSPoo/tLeDh/zDdc/wC/EP8A8do/4aW8Hf8AQN1z/vxD/wDHa8LuPhn4ngUE6ezD2IrJ1LwxrGkR7r+zeJPXriuOjknD9dpUql2+0zOOYQk7KSPon/hpfwd/0Ddc/wC/EP8A8do/4aX8Hf8AQN1z/vxD/wDHa+XzSV6P+qOV22f3m/t5n1lqvx+8LaOLI3NhrDfbbVbqPy4YjhWzgHMg54rO/wCGl/B3/QN1z/vxD/8AHa8J8c/c8Of9gaH+bVyg61yYPhbLa1BTmnfXr5scq80z6i/4aW8Hf9A3XP8AvxD/APHaT/hpfwd/0Ddc/wC/EP8A8dr5ns7O4v5vKtYjI/oK34vh74knKbNOfD/xZFKvw9kWHdqsuV+cjGWNUHaUkme9f8NL+Dv+gbrn/fiH/wCO0f8ADS/g7/oG65/34h/+O14RffDnxHYQebLYttHYHNcxLE8MjRyqVZTggjGKMPw7keKV6EuZeUrhDGqp8Ekz6e/4aX8Hf9A3XP8AvxD/APHa6bR/i3oOt6CurWlpqKQNO0AWWJA24AEnAcjHPrXxxXs/w9GfhfF/2E5f/QFrizjhzAYOgqlJO90tzdV52Z7T/wALN0b/AJ9r7/v2n/xdH/CzdG/59r7/AL9p/wDF15fijFfNf2dQ8zP6xUPUP+Fm6N/z7X3/AH7T/wCLory/FFH9nUPMPrFQ9C+KHP8AZf8A22/9krz/ABXoPxO/5hf/AG1/9krgcVWB/wB3j8/zYq/8RjMUYp+KMV2mJNaj/RtR/wCwfcf+izXzp619G23/AB7aj/2D7j/0Wa+cvWvruGv+Xvy/Uv7KEooor7AkKKKKACiiigAooooAKKKKACiiik9hrc6z4if8h6w/7BNp/wCixXJ11vxE/wCQ9Yf9gm0/9FiuSrhy7/dYeg5bhRRRXeSFFFFABRRRQAUUUUAFFFFAAK9Y+EfPhbxD/wBdoP615OK9Z+EX/Ir+IP8ArtB/WvnuIP8AcJeq/NFxOqxRin4oxXwRmMxRin4oxQAzFe/14Hive68XNPsfP9DswvU8x+JQz4kt/wDr0X/0N64/Fdj8SB/xUcH/AF6L/wChvXI4r0MJ/Aj6HPW/iMZiuJ+MY/5Fz/ryb/0Ya7nFcN8ZOvh3/ryb/wBGGveyb/f6fz/JijszzKiiiv0okKKKKACiiigAooooAKKKKACiiigDrPhn/wAjzB/173H/AKJauUPWur+Gf/I8wf8AXvcf+iWrlD1rgpf75U/wx/ORX2RKKKK7yQooooAKKKKACiiigAooooAKWkpaTA9y8HD/AItbon/XW4/9CFaGKoeDP+SW6L/11uP/AEIVpEV+UYj/AHmp/il+Y5bjMV2Hw1GPElx/16N/6Glcliuu+G4/4qOf/r0b/wBDSvPxX8CXoVR+NHp1FJRXyx6pyHxL/wCRbt/+vtf/AEB68wxXqHxI58OQf9fa/wDoD15livo8v/gfM87EfxC5og/4mif7j/8AoBr5wkGZW/3jX0jowxqa/wDXOT/0A184qjTXXlqCSz4AA5619xw5LllWk9ko/qZaKNzq/BXhRNVSTVdUPl6XbH52J+8fQV1d94wlWFbTRoI7O2iPylQMnHf2qprBXTLG00O14jtUzL8uC0h659e1YlfjPE2c1c4xs3Jv2adorpp1P1nhThfDrDxx2LgpTlqk/srpp3Ng+K9ZbreufrV2x8XTmNrXVo47u2mOJN45ArmqM18xCKhLmho11WjPtcTkuX4mk6VSjGz8kS+LvB0MFgdb0B/PsCf3oHWIk+lcJXp/hy+Ed09jcvi0vFMcgIz16frXnmqWgsdWu7UE4ikZBkdQDX75wTn1bMsNPD4h3nC2vdf5n4ZnuTSybGOgneD1j6dvkdB45+54c/7A0P8ANqxdD0S513U0s7Rcs3U9gK2/HH3PDn/YGg/m1bHhmJ9C8Fyago2XGoSGJGzzsAzkfjxXpZlm7yjJXiYq8rtL1bZwYXB1MdioYWl8Uml6d38jcim0rwVarbaPFFc6iR+/ncbtp9qzP+Eq1fduF0yn/Z4xWQTk5bk+vrSV/POLr1cZVdbEycpPq/08j91yvhvL8uoqnGmm+smrtm7B4x1iGdZHuDKF52vyKl1Sw0vxnpk88MSWerRDcFTpL61ztT2V5JY3kdxCcNGdwrbLsdXyyusRhXZrp0fk0cud8L4LMqD5IKFRbNK3/DnDTRNDM8bjDKcEHsa9k+Hg/wCLYRf9hOX/ANAWuE8f2Cx6vFqMKqkV/GJcKcgN3Fd78Oh/xa+I/wDUSl/9AWv37McdDH5TRxMNpNP8GfhbhKnKVOa1Wj9UbGKXFPxRivmDEZiin4oouB33xNGf7M/7a/8AslcHiu++Jf8AzDP+2v8A7JXCYrhwP+7x+f5s3r/xGMxRin4oxXYYkkAxaakf+ofcf+izXzjX0hD/AMeepf8AYPuP/RZr5v8AWvr+Gf8Al78v1K+yhKKKK+xJCiiigAooooAKBRSgEngUAJRVlLC6dcrC5B9BStp90iktDIAPVaz543tcj2kL2uVaKUjB5pKt7Gi3Ot+In/IesP8AsE2n/osVyVdZ8RP+Q9Yf9gm0/wDRYrk64cu/3WHoOW4UVLDbyznESM/0FTf2Zef8+8h/4DXY5xTs2ZucVo2VKKklhkibbIhU+4qOqTT2KunsFFFFMAooooAKKKKAAV6z8IefDHiH/rrB/WvJhXrXwf8A+RY8Q/8AXWD+tfP8Qf7hL1X5ouJ12KMU/FGK/PyBmKMU/FGKAGYr3mvCcV7tXj5p9j5/odmF6nmfxHGfEcH/AF6L/wChvXJYrr/iKM+IoP8Ar1X/ANDeuTxXfhP4EfQwq/GxmK4X4y/e8O/9eTf+jDXe4rg/jN97w7/15N/6Ga97Jf8AkYU/n+TJjszzA9aKD1or9LICiiigAooqe1tZ7udYrZGdycAAVMmkrsTairsiHIwBmtXTfDmpapIqwWz7T/ERxXovhH4YoFjvNRG6RcM0bcBR711t14g8PaBm3jVp5EGCsYCqD+HWvzDPvELBZfUeHwkfa1F22XzIwdDMM2m6eW0uZLeT2/4J55afCi5k2/abjysjnjP8qtt8IVCnGoHpx8ldJdfEgFdtpaJEMdQtV/8AhYd2SNwBA7Yr8+n4i59OV4Uopdmz6OHh/wAQTjzSrqL7WOF1r4dahpsW+3BuAOuBXIPC8UhjlUq69QRXvdr8QtPuQItRtNm48yxjkVz3j3wbDe6cda0zDKVyCo4cf0NfacM8f/Xq6wmYQ5Jy2fRni47Ks1ySSjj43g9prv5nHfDX/keLf/r3uP8A0S9cma6z4bAjx1AD1Fvcf+iWrmrS2e8uo7eFSXkbAA71+lxko4upJvTlj+ciJNKHN0C1s5r2dYraNnZj0AruNO+Fl7dwpJcTCHd264rtvD3hzTfBuhLdakSZJBljj5ifQen1p138RYVQx6fbBF7MycmvyfP/ABGqUsQ8PldPn5dHLpfyN8BkOc52vaYNclPpJ9Tmf+FQrj/kIH67aytS+F2oWkLSWriYKDkCuvHxEuwuCBj021eg+JFu0e2+skfPUqmD+dfN0fEbPKcr1aKkvJnqVOAeIaK5oVlN9rHiVzpN7aFvPtpEC9SVqpivoi3l0TxZZtaxth2BBjlXn8DXm/iv4aT6Sjz6aJJo15ZNuSK/TOH+OsvzeXsZ/u6n8rPnK6xeX1fYZjT9m+j6P5nn2KSnOpRirDBHUYptfoUdjb0CiiimAUtJS0mB7p4LH/FrdF/663H/AKEK0yOazvBI/wCLW6L/ANdbj/0IVqYr8nxH+81P8UvzKluMxXW/DgY8Rz/9ejf+hpXK4rrPh0MeIp/+vVv/AENK8/FfwJehVH40elUUUV8ueocl8R+fDsH/AF9r/wCgPXmeK9N+Iv8AyLsH/X0v/oD15rivosv/AIHzPOxHxlvRh/xM1/65yf8AoBrwrwdaveeNLKONVOJ9x3dMV7vpA/4mK/8AXOT/ANANeJ+BpHt9dvbiJNzRW0hB/unPWvosLXWHy/GVb7RX/txEY87jDu0vxNTVLh7vVLiaQ5ZnOTVWlZizFj1JyaSvwrU/p+jTVKlGC6JIKKKKDYsWD+VqNu/UrKp5+orK+IkaxeM7orj94FkOOmSM1owc3EWO7AfrWf8AEVSni2UMORDH/wCgiv0jw8bWZ1EtuT9T8k8QkvaYZ/4v0H+OOV8Of9gaD+bVs3dvJaeH9FidmKNab1BPT5jWP434/wCEb/7A8H82rpdfZW0bw/tIP+gDp2+Y16nG8mspwyWznL9TxOD4RlnUHLpF2+4wqKKK/Iz91sFAooFAPYteIkhufh/bysoE9rcFQe7Bv/1V1Xw6H/FsI/bUpf8A0Ba5uW3juPAOrbgTJFLG647DBzXS/Djn4YR+2pSj/wAcWv1rIqznw7GH8tRr9f1P564joKjm+Iiurv8AfY3cUYp2KXFdB84MxRT8UUAd58Sf+Yb/ANtf/ZK4XFd38SP+Yb/21/8AZK4bFcOCf+zx+f5m9b+IxuKMU7FGK7LmJJEP9D1M/wDUPuP/AEWa+bTX0pH/AMeOp/8AYPuP/RZr5rNfYcMf8vfl+pT+FCUUUV9kQFAoooAWjFORWdlCKSScACvTvBfw1F3Gt3q6spGGCHgAeprx81zfCZVh3iMVKyMK1eNKys3J7Jbs5Pw54Mv9clDeU8dv3kI4r0nSPhNY2pS4uN0o7mQ7VrT1DxVpnh8GzsIvOljGFkAwq/SuJ1HxHqWo3DSSXMgB/hBr8Jzfj3NMwm44D91T7vdn1eVcC5pmi9tjZ+yg9orf5s9Ig0nRdNXyWmtlH+6GxTn0zRdQHlLNbtnrhQv615Ob24PWZ/zoF7cLys7j6Gvj3mGcufO8XK59N/xCvKuX4pX73dza8XfC1LaCW70ssZMFxHnIcexryySN4XaOVCrA4II6V674a8WzWk32bUmae3k4+Y52+9c38TfDo03VlvrUAw3IDZUcA1+wcE8WYjG1Xl+YO87XjLvY+FzbIsXkGJVGrLnpS+GXbyZnfEX/AJDth/2CbT/0WKr+FPClz4iu87GFspw8g7Vf8cQG68U6XCv8el2aj/v2K9HM9r4G8Nw2sCAXssecf3c9817Gf8R/2JlNP2SvVnpFfr8jkp4TFZhio4LCfHLr2XVljSvAul+H4keXZGep805b8q1vK0MjAuLfn0iAryq51a9upmkmuXYtz1/Softlx/z1b86/C6+aZ3iajq1MU0322P0Oj4W5dKN8TOU5d7npGo+A9H1pMqI5CRn90+GH4VwfiL4WyWETSaWZZGAJMbjBFVo9TvY2zHdSKfUNXWaL4+NvbC21aI3SD+JjyPevYy7i/PssknKftY9nv955eYeG+KwsOfLazdvsy2PHLuyubJtl3C0TZ/iGKrV77q3hnS/GOmi4tWy2M/KPmX6+teN+IfD91oV+8M0bCMH5XPQ1+48O8U4LPaf7p2mt4vdHwnPWo1nhsXDkqLo9n6dzGooor7E3CiiigAr1r4Pf8iz4h/66wf1ryWvW/g5/yLfiD/rrB/WvnuIf+RfL1X5ouO52WKMU7FGK/PrkjcUYp2KMUXAbivdK8NxXuVePmX2Pn+h2Ybqeb/ET/kYYP+vVf/Q3rk8V1vxDH/FQQf8AXqv/AKG9cpiu/Cv9xE56vxsbiuB+NH3/AA9/15N/6MNegYrz/wCNH+t8Pf8AXk3/AKMNe/kv/Iwp/P8AJiWzPMD1ooNFfphmFFFKAc0APhhe4lWOJSzscADvXtHg7whZ+HtNOqasdrbcknqPYVi/DXwvCkMms6oNsSDKZFS+J/EkmrXjR25aO0U4RB396/E+OeKantHleAlZ/bkunl6nr5BkFTiHFNT0oQ+L+8+y/Us+IvGVxqU3laa72toowEXv7muWdi7FmOSepJpKDX5NTpQpq0T+g8HgaGCpRo4eKUUFFFFWd4V1vgzV285tJu2aS3nBCxnufT8a5KrWmymDVLaVSVKSqcg+9TLmXvR0a1Xqjys3wNLMMFUw9VXUkyzouk/2N8YHtdoVRDcFce8L1V+FWkRXmtS6hdfLDaj73ZWPT+VdpqWnLbfFHTrgD5p7OdmbOc5hY1heB4ZdP+Hup3W0KLhSoJ7kV+1Zlnk/9XpYyDtOdOmvnJtH8z4WhLEulg5bykoP5Oz/AARB4k1uXVtTkO7EKnaiL0AHpWMaKK/FoxUY2R/UeEw9PDUY0aStGKsgooopnUSwXMts++GRo29VrtvDnjMSRLYa4zOpO1JP7tcJSg4ORwaynSU7NaNbNbo8jNMpwmaUJUMTC6Zs/EHwIUZ9V0tCyMNzKnII9RXmJyOMY+vava/CPiFZl/srVJt0Mg2oz/wmuE+IHhU6DqJmgGYJWPTopr9w4H4qqY5f2djX+9itH/Mv8z+ec0ymvkOL+qVneEvgl+j80ccTSUuaSv1aOxxhS0lLQwPdvBAz8LdF/wCutx/6EK1sVl+Bv+SW6N/12uP/AEIVrY4FfkuJf+01f8T/ADLluNxXWfDv/kYZ/wDr1b/0NK5XFdX8PB/xUE//AF6t/wChpXn4p/uZFUvjR6PRRRXzJ6ZyfxE/5F6D/r6X/wBAevN8V6T8Q/8AkXoP+vpf/QHrzjFfQ4B/uDz6/wAZb0kf8TEf9c5P/QDXkXw8hRotfmkGdtq6g+5NevaUP+JgP+ucn/oBrx7wa3laDrr5OS6rx6ZNehiX/wAI2NXeMV+LOnLo8+MoR7zS/FEXaloor8dP6XWwUUUUDLmlRGbVbVQpb96CVX0zzWr8QfC8N5a3etRzKLiPDNHvyRH0HHbtU3geBTqk127iP7LGZMkjkdCPriommGtf8JC7uXX7G5jDcZwRivVyHNsRgMzg6DsrxT803t+J+U8Y4CtmNeU02oUIc3rJvb7kVJtAi17VvD0N0WW2h0KKSRl7AFq0fFGiDS9K09opfNhRTChz26/1pZLo2eiW7Jw7aJbJn0BZs1cs5Y9X8CzxSBXntFCKufmwDndXscY5tXlXhhW704207Nt6nz3DWBq08TTzaDbUZ8jXk0tfxOKoo+tFfJH7sncKKKKBmnZTBfDmtxMM77YkcfSuj+G/Pwvj/wCwlL/6Atczp8Zl0vWVBwFsHbH0IrqPhoP+LYJ/2Epf/QFr9J4bqN5RVi+lRf8ApJ+E8YU3HOJy7xj+RvYpcU7FGK9e58aNxRTsUUXA7r4j/wDMN/7a/wDslcRiu4+Iv/MO/wC2v/slcTiuLBfwI/P8zat/EY3FGKdijFdZiPQf6Bqf/YPuP/RZr5pPevpdeLDU/wDsH3H/AKLNfNB719lwxtV+X6lP4RKKKK+yICgUoGa6Dwf4ffX9cih/5ZqQWaubFYmlhaE69V2jFNsipUVODnLodb8OfBaXC/2rqQCxocqH6ADvW14n8YCdTY6PvhhX5WfPL4qTxfq8enwroml/uhEMSlT19vwric1/Lme5xWz7GvEVX+7Xwx6evzP1XgzhWNGCzHHRvVlsn9ldvUc7tIxZySfem0UV5J+qpW2CiiigoAcdK67Wrc658KBOzDzLM4HPJOf8K5Gut8M5vfDOrWTZKRwtLj8K9DK8RLDZjQrx0tJfc9GfBce4VVslnUS1g1JfJlUab9v+JGlOY/MWDSrSRl/7Ziq3iy++3a/cEH93G2xAT0ArotHc2vjJboL93RLVST2/dVw9xIZbmRz1ZiTXvcX4l1sfTpX0hBfe9T5nw9wyq4nE4p9LRX3Xf5kdFFFfIn7EgooooBl/S9XutKukmtZWXB5UHgiu6vYNO8f6HIEiVLlE5UdQfX6V5tV7SdVn0i+S4tnK4PzAfxDuKuhWr4PERxeEly1I/j5M+Q4m4aw+dYZxty1FrGXZnF6vpc+kX72tymGU8E/xe9UK9g8d6NB4j0FNd09DvVcsoHT1ryAghiD2r+m+Hc6p5zgI4mGktmuz6o/A4xq0pSoV1apB2a/X5jTRRRX0hYV678HP+Rb8Qf8AXWD+teRV678GufDfiD/rrB/WvnuIf+RfL1j+aLjudrijFOxRivzwkbijFOxRigBuK9vrxLFe215GZfZ+f6HZhup5z8QR/wAVBB/16r/6G1crius+IA/4n8H/AF6r/wChNXLYruwv8GJhV+NjMV598af9d4e/68m/9GGvRMV558ah++8Pf9eTf+hmvoMk/wCRhT+f5MlbM8uNFB60V+mmYuK2fC+jPrmvQWijKbsuT0xWN2zXrXw2sU0Xw3ea7cAbyv7rPRuMYr5riTNo5TltTE9dl6vYmVOrWlHD0fjm1FfP/I0/GOoxabZxaDpuESNcThf0X8K4eprq5ku7qSeZsu7Ek1DX8wpzk3Oo7yk7t+Z/SOS5XRyrBQwtJbb+b6sKKKKZ7QUUUUAFOjbZIrdcEHFNooFLVHoTlrnXtDvGHyvbzgfhA9Y+nypb/B2KNv8AWPOMY9DXR2kBOl+GmHB8u5bnv+5euYuoDbfDvTlxt3lWI/CvrcVX5uGaFPu4r7pT/wAj+dcpw8VxPCj/AC1Zv7k2czRRRXyR/RSCiiigYUUUUAKjtG4ZDhgcgiu72xeN/Bc1tKo+22y7VJ6t6GuDrZ8L6sdH1qKVmIif5JMeh61pRr1cJWhiqHxwd15918z5XinJoZvl86VvfWsX2aPNrq2e0uJIJQVeNypB9qhru/ijoa6fri3kAxFdAOAO2Rxn3xXCV/VmV4+nmGCp4qntJXP58pyco+9utH6rcKWkpa9A0PefAo/4tbo3/Xa4/wDQhWuBxWV4E/5JZo3/AF2uP/QhWvivyTFf7zV/xP8AM0luNxXVfD4f8VBP/wBerf8Aoa1zGK6n4fj/AIn8/wD16t/6Etefiv4Mh0vjR6JRRRXzZ6ZyvxC58Pwf9fS/+gNXnOK9H+IH/Ivwf9fS/wDoLV51ivfwP8E8+v8AGWtKH/EwH/XN/wD0A14v4TyNA1jPRpF5/OvatL4vh/1zf/0E14x4cUjwpqjDoLlB/Ot8xm45NikuvIvxZ3ZTFyzHDL++vzG0UGivyg/pMKOv50Va07TrnVLxbayjMkrAkKO+KG0ldmc5xhFyk7I7AW0Wi/DmbdgS36hlOBnOegPXoKxPCSCW8u4D0ktWX69Kybue5Zhb3Ts3kZQKT93nBrT8KOV1dwP4omFPAU3SrRk3duSf4o+SzLByoZRi5SnzOSlK/bTT5Iv6paf8UtZ3G3/mF2oz/wACaq/gq5jh1zZMyhZkKEOODkdK2NSUn4e2xHbT7UH/AL7auFRmRgyEhgcgjtXp58vbY+tF9/0R43B+F+sZJUp3tzSlr52RpeIdO/srXJ7XAUbt6jPQHkCsytC4t9Qv7N9UuA8sYIQytnJNZ5ryafw2b1R99hbqmoSldx0b8woooqjrexu+F0En9qxkD57CRefqK3vhuMfDUDrjU5f/AEFaw/CHzatKgGfMgZa3/hyuPhyR6apN/wCgrX6Bw1/yLqy/vx/Jn4lxvpm1v7i/Nm7ijFOxRivePhRuKKdiigDuPiJ/zDv+2v8A7JXFYrt/iEM/2d/21/8AZK4rbXHg3+4j8/zN638RjcUYp22jbXVcyFA/4l+pf9g+4/8ARZr5mr6bx/xL9T/7B9x/6LNfMpr7Phfar8v1B/CJRRQOtfZkDh0r17wZZr4a8DyavKuJ7gFY+epP+c15Xpdmb/VLe2QZMkgX9a9Y8ZTfYrWx0eNBH5EY81R03f8A6q/KvEbMZUcHTwdN2dR6+i3PXyHL1meb0cPL4Y+9L5bL7zlJpXnlaSVizMckmmGiivxJWSsf0fGKjogooooLCiiigArr/A06raa1CfvSWmP1rkK6bwQN9/dR/wB+HB/PNLm5XGS6Nfmj5riuHPkmJX91nXizWK41CfZgxaTagZHOPLx1rytuWP1r2LWWNmup7CMPpsCgH/drxw/eP1r1c5q+1zGb8or8D5Dw0V8BWqd5/kgoooryz9UCiiigAozRRTEzr/A+pK8sukXZBguFO0P91W9a8z8U6V/ZHiK6tAMIHLJxjg9K6O0uGtbuKZDgowNaPxXtEuIdP1iMgtPGN+0dMjgV+geH+YPC5nLCN+7VV15SX+aPxPj3LY4bG0sdBWVT3Zeu6f6HmRopT1pK/oE+DCvXvgz/AMi54g/66wf1ryGvX/gwM+HfEH/XWD+tfPcQ/wDIvl6x/NFw3O3xRinbaNtfnVwG4oxTttG2i4DcV7XXi22vaa8rMfs/P9Dqw/U888f/APIfg/69l/8AQmrlsV1Xj4Z16H/r2X/0Jq5jFduGf7mJjV+NjcV538a/9f4e/wCvJv8A0M16NivOfjZ/x8eHv+vNv/QzX0GSf8jGn8/yZC2Z5bRRRX6cZli1tzc3cMCDl2C/nXr/AImI0jwzp2kW+Y8oGlU9yB1rgvh7paap4ttkmOI0O5j6eldT4xvDdeI5/n3LGBGMHjivxLxJxzlWoYFPRXk/yR9bwVgli859rJaUlf5vRGFRRRX5UfvgUUUUAFFFFABRRRQJ7Hqmjt5um6Bxny7e4xj/AK5tWD4lj8nwNoyA53IDz24FbngsNLpunkHIignz7fI1Y/jCVD4O0VB94Kf6V6lSrfJaMP77/wDb/wDM/A8pg/8AXSce0pv8EcLRRRXls/fAooooGFFFFABR/SiimiZK51/iGA+Ivhms6hN9kMEn7zHn+leN4wcGvYvBssc9rqOnyqWEsRZFHc9P615NqNubXUriAjBjkK/rX7T4bY5zwVXByf8ADlp6PU/nLiLBLAZ1XpR0UrTXz3/Eq0tBNFfqx4x754C/5JZo3/Xaf/0IVs4rH8A/8ks0f/rtP/6EK2sV+SYv/eav+J/maS3GYrqfAH/Ifn/69m/9CWuZxXT+ARjXpv8Ar2b/ANCWvOxL/cyHS+NHoVFFFfOHpHL+P/8AkAwf9fK/+gtXnmK9E8e/8gGH/r5X/wBBavPcV72Bf7k4K/xlnTB/pv8A2zf/ANBNeQeG4h/wgOqSgcm8QZ/OvYNOGLz/ALZv/wCgmvJvDQY/DfVVCnm9jOfzp5tK2TYj1p/mz1chV80w6f8AMHh+1tbvVkh1CQRwlGJY9jjiqFyiJdSrEdyK5Cn1GaYCd2QSD9aM9c9a/LVFqTdz+glB+1cr79BK3vCV/bWGpM91L5Kspw+CccdOKwaKc4qScTHHYSnjcNPD1dpKz9C1qNwt1qM0yDCs/H+NX/DBxqxP/TJqxq6Hwtp91JPJdpCzQIhDPxgVdJqE437r8zy89VPD5LXp3slBpfcbuoow+Gtu5+61haD/AMfeuBr0i6tbi8+G9nBaxmRzp9uxA68M3avOHRo2ZXG1gcEEV6ObyTzKsvP9EeJwJUi8q5b6qTOwtNftU+H82myECcBlVcdcnOf0rju1FFeTCmoXa6s+twuCpYR1HTv78uZ+rCt2CxsX8I3F08g+1rIAoJ7elYVKGYLtBIHpnrTnFySSZvWpupZKVrO//ANrwnIY9cQ5xlSK6T4c8/Dtv+wrN/6CtcloJI1iFtpIyc47cV1/w4H/ABbtv+wrN/6Ctfe8Nz/2KvG/2o/kz8c44Vs2i/7i/Nm+BRinYoxX0Vz4UbiinYoouB23xA5/s/8A7af+y1xmK7Tx9/zD/wDtp/7LXG4riwf8CPz/ADN63xsbijFOxRiuu5kB/wCQbqf/AGD7j/0Wa+YzX06wxpmqf9g+4/8ARZr5hr7Phbar8v1CWwUUUV9oZnY/DGwjvvGEPnHCICcmt7xXdPdeI7ppH37G2A/TiofhLbRltWuJRzHbEqfQjms+aQzTPIxyWJJzX88cfYl1s69n0hFL7z9G8PMMpYnE4l9OWK/NjKKKK+EP2MKKKKACiiigArqfh8N3iQDIGUPXvwa5auo+Hm0+LrdW6FX/APQTWdT4bni5/DnyuvH+6/yO18Zs0Ul4wHyPZxAH8K8iPU1618RMjTpCMgGCLn14ryWu3GNyxc5Py/I+M8NYcuTyfebCiiiuY/TQooooAKKKKACun1KMat8KmjCbpLZy7N3AA4rmK63wxK03hfWrLAO9AR69DXflmJeEzChXT+Ga+56fqfC8d4f22S1J9YNSXyZ46eppKkuIzFcSI3BViP1qOv6yi7pM/EE7q4V6/wDBbnw74g/66wf1ryCvYPgr/wAi94g/66wf1r57iL/kXy9Y/mi4bnd4oxTsUYr86uMbijFOxRii4DcV7NXjeK9jrysw+z8/0OrD9TgPHn/Idh/69l/9CauZxXT+Ov8AkOQ/9ey/+hNXNYrtw38GJjU+NjcV5v8AG3/j58P/APXm3/oZr0rFea/G7/j68P8A/Xk3/oZr6DI/+RhT+f5Mjozyyiiiv08yPSfhHBH9o1G4nGFEBCsexAzVC5kM1xJITncxNbvgjyrD4b6ncFP30hGwj8q56v5n4wxDxGfV30jaP3LX8z9V8OsOlh8RiX9qdvlFWCiiivlT9UCiiigAooooAKKKKAZ6z8OoxJo0T7v9WkoK+vymuX8Ysf7G0xMAKqkD9K6r4ZrnQCR6SDH/AAA1x3ixibGzUnoDgGuibf1ClH+/L9T8PyuFuOK3/b35ROVooorA/bwooopDCiiigAooooA3fBl39k8VWjkAgsQQfpXJ+PtOk0/xZciZdplbf+dbGnXDWmpW869UkB/Wp/i9E76raag/JukJGPQV9/4e4l0s5lS6Tj+T/wCCfjPiHQ5MZhsQvtJx/U85NLSUtf0Cfnp798P+fhZo/wD12n/9CFbmKxfh6P8Ai1mj/wDXaf8A9CFbmK/IsX/vNX/E/wAzWQ3FdN4D/wCQ7N/17N/6Etc3iul8C/8AIcm/69m/9CWvPxP8GQ6Xxo7+ikor509E5nx5zoUP/Xyv/oLV5/ivQfHXOhw/9fK/+gtXA4r3cD/BOGv8ZY04f6Z/2zk/9ANebeBL20Pw/wBXsiA9w4chO+exr0rTx/pf/bN//QTXi3g+xe0tV1iKXEn2oR+UrYyO9enPL45ll2IwzlZvlt6q7RyVMX9TlTxCdnGSf/AITwf6UnvXp+r6Jo11pMsi2fk3gGQ0fAPGelef3ui31hbxzXMJWOQZVq/GvaNScKkeVrTX9D9+yHijL88o8+HlZ7NPe5QoorotK8M/6P8A2jrjC009RuO84ZvTA9DW0YylJQirt7Jbs9rMMxw2XUHXxMuWK/H0Kmh6VFeu9xqEogsYBukc/wAX+yK2fD3iiLVtXu9N0uHydPhtn24/iNWbe60nW9IliktVs9Ejbb5h5aRvYetLY+H9L0W+e90VmaC4iKEtxtYj+76V9llOEy/Dznh8YubEtaRtpHra+3NY/nfjDPMbnVCdeMJRw60j2v3eu/5Fi/1O707wPpU+luEuYNNjd8jgruasYmw8b6a+paSoi1OMbri3H8eBywFal9Gtz4S0e2hz5txp8MMmP7rM1RWXh/QdIfZodxJHqca7l8xCCSByM+9d2a0crlSnTxPuVpTfI7enxf3b6Hl5FjswwGLq4jBRlLlacktVy2V7/ocQQVYhhhhwRSV17Rab4vd/sapY6shImt2bAYjvzXL3dncWU5huomjcdiMZr4XEYetharo148svz813R/ReS5/g84pc9B+8t4vdEFA96kgtpbqZYoI2d2OAAK7Twt4Wt1uLltetZHMJC+WrYxkZzXJKfLold9ludmZ5thcsw8q+JlZR1fexD4GhtUs9Tur0LtRAisxxtJHWtL4coE+H0iq24DVZef8AgK1X8T6dbXFza6RawxWVrPuZjGOSR0zVj4bwfZ/h88Wc7NUlGf8AgK1+k5Flf1TLZYqo2p1XF27JXt8+5/PePz6lnuZVMTS0jZJLy7/fc6DFGKdilxXqnIMxRT8UUDOz8e/8uH/bT/2WuOxXZeOxn7B/20/9lrkMVxYR/uY/11Na3xsZijFPxRiuq5kNcY0vVP8AsH3H/oBr5fr6jlH/ABK9U/7B9x/6Aa+XK+14W2q/L9QlsgoooHWvtTM9W+HsKWvgnU9Q3ccxn6kY/rXP9vwrqfC1l9l+Et+r5zcMso9uQP6Vy1fy/wAUVVVzzEyT2aX3I/XfDqEVl9Won8U3+AUUUV86fpgUUUUAFFFFABXUfD6Pf4qjcdY42P1+U1y9dd8Nz/xVABOP3Tc/ga58VJxoSaPHzv8A5Ftb/C/yO28fRfaPDr54EdtG344rxuvZfHOU8M3OOot4V/SvGquNV1as5Pv+iPkPDmDhlDT/AJ5BRRRWp+jhRRRQAUUUUAFdh8O5U/tK8glwVe1dhn1A/wDr1x9dF4LVjrTFDjMbIfxqJvlSl2af4ngcSQjUyjExl/I/yPMtVGNWuf8Aro386qVueMdPOm+KLy3LbsOTn1rDr+u8HU9ph4T7pfkfzfQkpUoyXZBXsPwU/wCRf8Qf9dYP6149XsXwT/5F/wAQf9dYP/Zq8fiL/kXT9Y/mjphud7ijFPxRivze4xmKMU/FGKLgMxXsNeQ4r16vMzD7Pz/Q6sP1OC8c/wDIch/69l/9CaubxXTeNxnW4f8Ar3X/ANCaucxXZh3+6iY1PjYzFeZ/G/8A4+/D/wD15N/6Ga9PxXmPxw/4/PD/AP15N/6Ga+hyL/kY0/n+TI+yeV0CilA5H1r9PbsjI9eto4bT4SWkkRJa5k2E+4J/wrlq6rWtPfS/A+kW4dvKPz7T2JGf61ytfyfmtZV8xxFVdZy/B2/Q/b+BKUaeSU5L7Tb+9hRRRXnH3QUUUUAFFFFABRRRQJnrnwvXbowxyXd8f98GuQ8dwiKWyYZyyHI+mK7D4ZEjRrfH/PV//QDXL/EZdtxY57qx/lUKrehCH9+X5H4tld1xxW9JflE4o0UGitGftPUKKKKQwooooAKKKKABTtYEdRzWv8UZRd6NokqJgLbgE+9ZFdL4vsAfhPp9x96XzSSfQV9LwnX9hnuHfdtfev8AgH5n4iUk8DRq/wAs1+KseSfSloNFf02fkZ9A/Dz/AJJZpH/Xaf8A9CFbuKw/h2P+LV6R/wBdp/8A0IVv4r8gxn+9Vf8AE/zNZDMV0ngb/kOTf9ezf+hLXPYro/BAxrc3/Xu3/oS15+Jf7qRVP40d3RRRXz56BzXjn/kBw/8AXyv/AKC1cHiu98cc6JD/ANfC/wDoLVwmK9vBfwjhrfGT6f8A8fTf9cn/APQTXzJFqN1asVilZVEhbbnjNfTtgP8AST/1zf8A9BNfOK2th/wjdzPIx+1+cAgz25r7fhuUVKrzK/w/qctdxUEpK92WtB8ZXmm6pHNeO91ByHjZjyDXQwfE+NtWnF/ZedpknAhxlgOwB7V51n60gPGK9zGcOZZjZupXoptq1zKNGMJc1NuL8nbXv6nqi+NPBcP7+PRG3ryqeYcg9u9cR4l8V3/iS+aW4cpCOEhU/KB2GKwt3OaM1hlXCuWZVVdbD0/e7t3t6XOqtWxGJkpYipKdtuZ3t6Hq+ieIPDll4LtZtQYzzW+dtqDgFueTXQ+H/FMPirTLu48gJJbLtChQB04/lXhAI7k49K9F+HTX9npd20VuZYLjpj1ANeDj+FMBhlUxkFeq5XTb2u9Ujwc49tLAeylUbimrK9lv26noGmPnRdGKptaHToZN+PRm4rnLXx3o2t64keuRtbT28mI50AXODWlNd6hF4U0tbGHcX0uJVbHQlmzXiN2siXsonz5gY7vrmuWhw3gs5VT60tVdJp6rXUeXTxFLG1pUqjjtaz8uq6/M3vFesxz+NLvUdHJhXeCChxk+tdJYfELTNRtUXxVYfaZ0GFlViv8AKvN92c560mea+txvDeAx+FhhsRC6ikk9mreZ7FJ1KElUozcZrqnZnp83xG0PTbcnw7pX2e6wQJGO4H86ztU+JlzfeHVtog8WoOcTzDADLz07+lcCT6UZzXNhOEMnwnL7OlrF3Terv6ire0xE+evUlNve7e3b08i//bGoFlZruVih3Lls4Ne0fC6Rpfhrvflm1KUk+vyrXkfhW20+71kJqz7ICh5Pr2r174YIE+HTqhBVdTlAI9Nq1lxE4Rw3JFWs1006k0XBVHCKs7HS4oxTsUYr4nobjcUU7FFAHY+Ov+XH/tp/7LXJYrrvHAz9h/7af+y1yeK48L/BX9dTar8bG4oxTsUYrpMhkw/4lWqf9g+4/wDRZr5br6lnGNJ1T/sH3H/os18tV9twq9Kvy/UJbIKB1FFKv3h9a+26GR7To16F+FsvmJt3xKE3Dr83auLru75QvwnsSFx0HTtXCV/J2bTU81xUl/O/wP2Pw6pqGSqXeUn+IUUUV5x+jBRRRQAUUUUAFdT8Pv8AkZR/uN/I1y1dV8O/+RoX/cP8jXLi/wCBP0PKzhXy+t/hZ3njwH/hG7s9hDD/AOg14zXtvxBXb4Xvj6pD/KvEqxwTu6j8/wBEfLcBw5cra/vMKKKK9A++CiiigAooooAK6bwI+PEKxBctINq/WuZrf8E5Hiu0KttIbOaxxFvZSueXm9NVcBWg+sX+Ry3xJP8AxW10MH5cDnvXJ123xRQjxXvIxujzn15riq/rDJaqq5dQmusV+R/L+Bt9WhbsJXsXwR/5AHiD/rrB/wCzV47XsfwQ50HxB/11g/rXLxF/yLp+sfzR3Q3PQsUYp2KMV+alDcUYp2KMUANxXrdeTYr1mvNx/wBn5/odWH6nDeNh/wATqH/r3X/0Jq5zFdJ40H/E6i/69x/6E1c7iuvD/wAKJjU+NjcV5h8ch/pmgf8AXk3/AKGa9RxXl/xz/wCP3QP+vNv/AEM19FkX/Ixp/P8AJmf2TyrFWNPi87UII/70gH61X7Vc0kldXtSvJ81cD15r9LrO1OXoc9TSEmux6/46bZpekQ558kN/SuJruvHsf/Ep0qRvvGPj6VwtfyG23UqN/wA0vzZ+88E2/sDDW7BRRRQfZhRRRQAUUUUAFFFFAmev/DQ48PW/r58n/oBrl/iR/r9P/wCubf0rqPhqCfDtv7Tv/wCgGuY+JAAm03HeHP8AKvMpz9+Mf70vyPx/L4/8ZtWfk/yicPRRRXpn7AFFFFAwooooAKKKKACu01T978JFR/4Edh/30K4vsa7a/wBp+Eh2Z3+VJn/voV6OTtrNsI1/Oj838R/+RNf+/H8zxM0tIaWv6vPx4+g/h1/ySvSP+u0//oQroMVgfDgf8Wr0j/rtP/6EK6HFfj+M/wB6q/4n+Zs+g3FdH4JH/E6m/wCvdv8A0Ja57FdF4LH/ABOpf+vc/wDoS15+I/hSLp/GjuKKKK8A7znPG3/IFh/6+F/9BauGxXdeNf8AkCxf9fC/+gtXD4r2sH/COKt8ZNYj/SG/65P/AOgmvlp8bpNzkYY4HrX1PZD9+3/XN/8A0E1823nhnUrfRV1eWIC1kfAbPr0r7jhmrCE6qk9+W34nLVqQgoqTtd6GIaSlxSGvvkxBRRRTAK9U+Gd88mgXtoHBeMEordBkcmvLB0rU0jW7vSRMLIAiVNrZrx80wX13Dulfqn9zPPzHCvFYd01voe3WlxJZeH7GWZgY4dJhbaD0OWzXgt9Mbi/nl/vSMefrXdeJ9dvdPsNIgtwGS50SESZ7ctXnx5yT17mvNyHA+wdSu38X6NiwuDdHEVaj+1b8htFFFfVHohQKKKGBJGwBYnjjj617p8KOfhmPfUZP/QVrxXStLuNX1COztMGWTgZr3T4b6fPpfgOWyu12zQ6nIrD0Oxa+Q4lqQ+rKF/eutPvCnUh7Rwv71tjosUYp2KMV8HfQ1G4op2KKQHX+Nxn7D/20/wDZa5PFdZ415+xf9tP/AGWuVxXLhf4K/rqbVfjY3FGKdijFdJkR3H/IJ1T/ALB8/wD6Aa+WK+qrj/kEap/14T/+gGvlXtX23Cu1X5fqKeyCpIFDzxhuhYCo6VPvr9a+2lsYvY921CPy/hlaIDkKew6159Xf37A/C20MR25I6muAr+Rsdf8AtHE3/nkfs/h3f+wad+7/ADCiiiuc/QwooooAKKKKACur+Hf/ACNCf7h7+xrlK6XwFcG38TRMATu+Xj3rlxavh5+h5uaxcsDVUd7M9K+Ijo3ha7CdfLiPXtivEK9v+J6LZ+HJBEv+vjQHP8IArxCsMCtJ+v6I+b4Kpzp5a1P+ZhRRRXon2wUUUUAFFFFABW/4LIHiq1ye9YHat/wSN3iu0H+1WGJ/gT9Dz8x/3Or/AIX+RjfFP/kOw5/uf1rhK7z4qjGvRD/Y/rXB96/qjhtNZRh7/wAq/I/ljL/92j8/zEr2T4Hf8gLxB/10g/8AZq8br2X4Hf8AID8Qf9dIf61PEX/Iul6x/NHpU9z0TFGKdijFfmpQ3FGKdijFADcV6vXlWK9Vrzcd9n5/odNDqcR4zGdZi/69x/6E1c/iui8Zf8hiL/rgP/Qmrn8V14f+FEyqfGxuK8s+Of8Ax/aB/wBebf8AoZr1XFeV/HT/AJCGgf8AXk3/AKGa+iyH/kY0/n+TM38J5T1rS8PxGbxBZIO8q/zrMrX8Mvs8RWjHnEg49ea/SMTpRl6M467tRk12Z638Q/8AkG6Pj/nkR+prg67z4hf8gzR/Tyj/AOhGuD7V/INGTfM3/NL82f0Fwav+EHDf4UFFFFbH1oUUUUAFFFFABRRRQJnsHwzYf8I1GuefNc/+OGuX+JP+t0z/AK4f0FdT8LIvN0UAdVLn/wAdrl/ichi1GxjycLABj8K8Sm/9pS/vS/JH5VgKUv8AXCrPpZ/kjhqKO1Fe2z9VCiiigYUUUUAFFFFABXeQW/2n4cyqzYCxPiuDr0CxIX4cTsxwFic/rXXlzazLDNfzo/OPEj/kRS/xR/NHhcgxIw96Sll/1rf7xpK/rRbH46tj6F+G4/4tXpP/AF2n/wDQhXR4rnvhr/ySrSf+u0//AKEK6PFfj2N/3qr/AIn+Zu+g3FdB4MGNZl/69z/6EtYOK6Dwb/yGJf8Argf/AEJa4MR/CkXT+NHa0UUV4J3HPeM/+QNF/wBfA/8AQWriMV3HjL/kDxf9fA/9BauJxXs4P+Ecdb4yazH75v8Ark//AKCa+ZJ9W1G/t49MkuGNur4SPsOeK+nbQfvn/wCuT/8AoJr5T8wxXRdeCr5H519zwzBSdZ2u1a3rqctaClFNrVbHXa18PLjRfC0erzz5LYymOBnpXGV1viHx/qOv6PDpsyqkEYAIHfHSuSr6PKI5jHDv+0GnO7tba3Q5sP7XlftNxDRS4pMV7dzcWvS/hZpdld6fqt1dW6TSxALGXGQBjPSvNMcV2fgrxfa+HNOv4LqN2afBUr346V85xFQxOJy6dLCt87tto90cOYxqSw7VNXZ6pqum6Pf+CElkt445k0lCrkfdXLYr57ddrsqnjJr1jV/FtvpegWVndB913ocWwqM5JLce1eSsckn1NeTwthsXQniJVm+RyXLfy0dvmVhqc4TkpLt8xtFFFfc3OwK1vDeht4h1qKxSXyt55Y9qyscVoaLq8+ianHe2330PfvXLjPbPDzWHaU7O19r9DOpz8j5NzY8ReH77wJrcXlTkt96OQd69Y+GN5PqPw/e5u5DJNJqUhZj3+Ra8c8U+KLrxRfJcXWQI12queleu/CP/AJJn/wBxGT/0Ba+NzSniVlVKWNs6unM189gwsJW5qi97udbijFOxRivjzqG4op2KKAOs8aDP2L/tp/7LXLYrq/GX/Ln/AMD/APZa5jFcuFf7lf11NavxsjxRipMUYrouZkNyMaNqn/XhP/6Aa+Va+rLsf8SbVP8Arwn/APQDXyl2r7fhX4avy/UmeyClX74+tJTo1LSqBySa+3exi9j26/2p8LbFj1YgAVwtd3q6+T8MLCMjd+825PbgGuEr+SMfJSzDEtfzyP2rw9XLkNP1f5hRRRXKfoAUUUUAFFFFABXVfD6aGDxKGmKqShCM3Y4NcrXT+ArNLzxIgl+5Gu8j1xmubFW9hK/Y8vN+T6hV9o7Lldz0H4hgw+HZluzuMkEewk9TjrXi9e0fEVI9Q0OR1URmGBGUk8YI6V4vUYZNOae9/wBD5jgb6v8A2Y/YSbXM9+4UUUV2H3YUUUUAFFFFABW94KYJ4ssmJxiQY96wa2fCcix+JrJmUkeYOnasa6vRl6HBmCvhKq/uv8jI+KIf/hJhnG1lyOenNcQetd58VbVrfXoWP3ZE3D864M1/U/DkubKMO/7q/I/ljA/7vH5/mJXsvwNH/Ej8Qf8AXSH+teNV7P8AAvnRPEH/AF0h/rU8R/8AIun6x/NHo0/iPRsUYqTFGK/M7lkeKMVJijFFwI8V6lXmOK9Orzsd9n5/odFDqcZ4w/5C8X/XAf8AoTVgYrofFwzq0X/XAf8AoTVg4rroP91EyqfExmK8p+O3/IQ0H/ryb/0M16zivJ/jv/yENB/68m/9DNfQ5D/yMafz/JkP4Tyetfwvj/hJbHd/z1XH51k962vCaF/FFiq9TKAPzr9JxX8CfozhxOlCfoz1f4htnTtI9fKP/oRrg67Tx/hbfTUI+cI35bjXF1/IND4X6v8ANn9CcHq2Q4X/AAoKKKK3PrAooooAKKKKACj6UUUCex7D8LyP7Aj8n/Wb33+w2muX+JpzfWG85k8j5vyFdJ8JrZbezN5LIQH3KqKevBNcl8R4QmtRTIWaOVNy7u2a8akl9ZXrL8kfm2BpUlxRVmql3Z6fccfRRRXsn6SgooooGFFFFABRRRQAleg2OD8NblwN4EbKVrz+u90g+Z8Ob3aDnaRtrpwOmYYZ/wB+J+d+I0b5DN+cfzR4dJ/rG+ppKWXiVs+ppK/rZbI/GlsfRHw0GfhXpP8A12n/APQhXSYrnPhl/wAkr0n/AK7T/wDoQrpgK/Hcb/vVX/E/zOjsMxW/4P8A+QvL/wBcD/6EtYeK3vCIxq0v/XA/+hLXn4h/upFU/jR2NFFFeGdxgeMBnSIv+u4/9BauM212ni7/AJBEX/Xcf+gtXG4r2MI/3Rx1fiJbUYlf/rk//oJr5Ol/1z/7x/nX1lbD94//AFyf/wBBNfJsv+uf/eP86+/4U+Kr/wBu/qYz2Qg6UBSegJ/CrWm2EupXQt4Nu9gfvHFdJpvimLw3A1m+j2l3Mhw7yjd+XFfWYivOnG1KPNLtexxVq0oK1OPM+2xybxPHjfG67umRjNIY2VtrIwJ7V21r4ustX8S2kuqWNva20fyhVXKg+p4rudfs/DX9rw3Gqae9usYRoJLZflkXrk9q+Vzfiynk1SnDGUpe8m7rVJ9jbA0cbjZ+ypUrySva6v8ALv5ni81jdW/lm5gkiEn3S64yK0ta8M3ejWdtdzFXguUDKyn9K9C168j8W6LqaR2qqLRBJBITgooOMYry241G7uLVLaedmji4VD0Fb8P57LPcP7enHk5W1Jb+aszXG4LGYLFLD17KStdb6PY6jxZZy39z4Ytbdd0kukQKo98tWDrWg3Wi6kLCYrLPgfLHzg+lbfjC5ltJPDU1uxR10aHBHblq0/hwo1PX77VNTLTTW9uZEZhuyw6ZzW1THPLsuli56wgpNrq3fQwqKs66ULWelvN6HBT2lxbPtuYJYW9JEKk/nUYifj5Tz04r2C61HQPEht7vXoJnvI+CkKABvyqDx1qGiWPh+yhgsYYNRVg6oig4X/arwcp45pZnXp4anRlzyvftG3md+Y5dj8tX+0U7a2Wu/p5dzyd4JI/9ZGy/UYph6d67gfEYSQrHc6BYyYGGfHJ/SucvLGS8t5tVhiSKBpCBGrdK+3w+Iryb9vT5ddNU7nk0q1Vu1aHL873Mqve/hD/yTT/uIyf+gLXgle+fCD/kmn/cRk/9AWvG4n/3Jf4l+p30+p2G2jbTsUYr87uUN20U7FFO4HVeMP8Alz/4H/7LXM4rp/F//Ln/AMD/APZa5rFcmGf7pGtRe+xuKMU7FGK6LmdiC8H/ABJtV/68J/8A0A18o19X3o/4kuq/9eE//oBr5Qr7jhT4avy/UmeyCpbcE3MYXglhioqfFJ5cyOOqkGvt5XcXYweqPb/ErfZ/AtlbMGz53U/7org6762A8WeA4FtpVa4X94yk9+mK4a5tpbO4eG4Qo6nBBr+R8bSnQx+IpVVaXPJ/ez9k8PcVRqZLToRl78LqS6rUiooornP0YKKKKACiiigAroPBklzH4gjayGZMYIx275rn66r4fTRQ+IW82RYy0RCsT35rDEfwZHl5vN08BVnGPM0np3O8+J32lNBTyQgjaFBLs+nevGa9r8cOLTSLgzsuw2kaohOSxx1rxSooRUZTindX3PmuCK862XNzpclpPTv5hRRRXUfchRRRQAUUUUAAFaXh2TyfEFmx6eaAfzrNFdV4Q8P3E97FqFwPKtYjuDv0bHpWVZr2bXV6ep5eaYqhhsJUqV5JRs/yMf4xR41y2K/d8oAc15xXcfE/WodU15I4CrLCu3cvQ1w5r+peGqVSjlGHp1VZqK/I/l/BfwE+9/uuJXtHwK/5AviH/rpD/WvF69o+BH/IH8Qf9dIf60uI/wDkWz9Y/mjvp7npeKMU7FGK/MbmlhuKMU7FGKLhYbivTK81xXpVefjPs/M6KPU4/wAWjOrRf9cB/wChNWFit7xYM6rF/wBcB/6E1YeK6qD/AHaMqi95jcV5L8eP+QjoP/Xk3/oZr1zFeSfHn/kJaF/15N/6Ga+iyD/kY0/n+TM38J5P3ra8IF18V2Hl/eMyjPpzWKO9bfhCUw+K7AqAWMoAz65r9Kxn+7z9GcOJ1oT9H+R6X4+bBsEJ3N5bEn0+Y1x1dp8Qk2y2Rb7zRkkenNcXX8hUPhfq/wA2f0PwmuXI8Kv7qCiiitj6kKKKKACiiigAo/xooFAnseo/Ce51BZDEsQe1w5y3QHaa5fx5cX8+tr/aMPlMq/IF+7j2rrvhXqUElr/Z8hMbqXkBX+L5TkGuU8f6hHe6nBHBlkgj2Bm6mvNp39vt1l+SPhcI6v8ArBVvSSVvi6/0/wBDkz1ooxiivSPukFFFFAwooooAKKKKAAV3mjPI3w6vinDhSBgVwdeg6E6J8OdQdRzjHP0rowTtj8P/AI4/mfn3iHrkNT1j+aPCpP8AWtnrk5pKfOQZ3x03GmV/W62R+LrY+ivhiP8Ai1Wlf9dp/wD0IV0+K5r4YDPwq0r/AK7T/wDoQrpwK/HMc/8Aaqv+J/mdPRDcVu+EhjVpf+uB/wDQlrExW54TGNVl/wCuB/8AQlrzq7/dsqC95HX0UUV4p2mF4t/5BMX/AF3H/oLVx+K7HxZ/yCYv+u4/9BauQxXrYV/uzkq/EPth+8f/AK5P/wCgmvkuX/XP/vH+dfW1uDvf18p8f98mvnLW/C1rpvhi31NL5JZ5mBaL2P8AhX3HDOIhSqTjLeXKl+JxYitCk4xlvJ2Q/wAFeHoNekl8+b7LHbDzJps4JX0HvWt/wiOi6vFfDSPPimt0aQPK+Qygdx61jeDPENlpf2iy1RWFtcrgyJ1U+tdromoaAbe7s9J1R1ubiMq8rrjCdxzXk5/iOIKWbp4ZNUFZ3Wqt9q/+R0xqZdRy/ETxHN7b7Fr29Tyy10q/vVdrS0llVDyyKTium0nx/faXarp2rWkV/bRghYp+qk984rqPDmuW+g+IX8PrqVuli0e4Xm0cMeSK4rx5fafqHiqeXSkCxDCkj+I9zxX0LqxznFSwONw16XKpRk9n+qZ5tCvKUozWj3Vrprs7+Ze1fx6l5o02nabpkVmJseZKnLEenSs2TwTrMXhga5JBi0PPX5setY2n232vUILYf8tZFXgZ6mveo7e0uYLvQzdGS0trQBgeOcDIrzM2zHD8KLD4XA00lUlqvLa/rqdkoYmv7StFtuK5pN6tpWVjznXdEutfvvDdpYBTJ/YsJO44AALVi6fqOo+BvEMqOgLL8ksRPyuvpXqtsLWz0a3uoiGl/sOJFY9VGWrhPiTbrdGw1qGLy47qEKSOhI7/AKVjgc8p4zMpZJXgnTcXv1d27fcL2U54f619jn5PRpXvcfJ8SreKOQ6doVtFPIMiQ4Ow+3Fctevq/iK5l1GWGW4ZvvMq8LWUp5Hpnp617JpXi7R9G8BpLaywvOYQhtsAANjqw6n8K9TEYShw4oPK8JzSqSs7dF3b7GeJxFST56snJ20bbfy+Zwfhbw5Z30d3eavLLHb2gwY4x8zE9PpWynhbSr/RbiXTPtEU9upeW3Lbtw9a3LJ9Js7K61a8uLVoL8Dz4I85Qnj5R6is4eLNA8O2V9Jok7311cKYVSRcKqHnP14r5vHYzP6+bwng03Tulb7OnxJ/5nVg6+WYjLa3tXJV0/d0dn5fnueZOAJGwMD0r3z4P/8AJND/ANhGT/0Ba8W0ezi1jxBBb3D+Uk8mGK9gfSvfvAOlJo3hG5soXLxx6lJtJ642L1r6zibEw9hHDv4tH8vU5adaKq+yfxWub+KMU7FGK+DudVhuKKdiii4zp/Fv/Lp/wP8A9lrm8V0vizn7J/wP/wBlrnMVzYf+EjSp8TG4oxTsUYrczIL7/kB6r/14T/8AoBr5Nr6zv/8AkB6t/wBeE/8A6Aa+TK+54T+Gr8v1IqbIXHHNamheH7zX737PYpuwMs3YCswmvYPhPaRQ6Pf3QQeZ5JcE+or1uJM3lk+WVcZFXcVovNnLU524UqfxTair+ZR0/wAG+JPDl9E2mTPcRbgXVRx1rd8f28JtLOaQIl5t/eAfePPesNfGOuwMyJfybd3AJzisq/1G61O6NxfTGWVupNfzrm+c4vOp06mJhGLj1ju/U/WuG+C8VlOYLGVK/MrWsla/r6FWiiivLP1MKKKKACiiigArc8JaQdZ12OAuUVRuYg84rDq5pWqT6RfLdWrYdazqxnKm1Dc5cXGpOhKNJ2k1oen/ABJ0KBtLW7trqQ/Z4YwUbuMcGvJK7/4geLLu8Fvp7IqJLaQzOQPvErmuAqaVOpTclPuePw7RxNLApYl3d3a3YKKKK2PogooooAKKKKAJ7FI5L+BJvuNIA2fTNegeNrPW7qzhsfDh/wBGwVJjHVfb6815wK27LxdrWn2/k2t66IOgz0roweKq4HFwxdOMZON9Jba9T4bi3hutn1OnGjV5eR3s9U/UxdY+G2qWFj9sjkW44LOqjketcUw2nB69x6V734P1G81zTdQh1Kdp+V2s5yVyefzrxHWYBba1dxLyqysB+dfu3BfEuIzunVhiUlOm0tNrM/Fcdga+VZhPAV5qbik00rblCvafgP8A8gfxB/10h/rXi3c17T8BhnR/EH/XSH/2avoOI/8AkWT9Y/miafxHp2KMU7FGK/MDUbijFOxRigBuK9IrznFei1wYz7PzOij1OT8Vf8hWP/riP/QmrDxW74p/5Ckf/XEf+hNWLiuqj/DRlP4mNryH49f8hLQv+vJv/QzXsGK8g+Pf/IU0L/ryb/0M19Fw/wD8jGn8/wAmZy+E8m9a3PBqhvF2n5xhZVY59jWHWr4ado/EFsyHad3av0vFq9Ca8mcGJT9hO3ZnqnxBTcdPmznMTL1/2q4uu58fx7dM0cg/eiJP5muGr+QqF+Vrzf5s/oXg93yLDf4UFFFFbH1YUUUUAFFFFABQKKKBPY9a+FNrb/YRcQxrJdl2ByM4Xaf61y3xFtYrfVrd0VUmlj3SoBjafpW/8KtMZXF9K/lwybkB9TtNcv46sXstXQtIZUmUsjnuK8yml9ZXvdZfkj4HBqH+sVRqtd2+H+u36nL0UfWivTPvkFFFFAwooooAKKKKACu/0SDPw+vUz95Sa4CvRLIiH4ZTOxABicnHbBrpwKvmGGj/AH4n514jT5cimu7ivxR4RMMTP/vGm0shzI31NJX9bLZH42tj6N+F3/JKtK/67T/+hCupxXL/AAtGfhVpX/Xaf/0IV1WK/Gsd/vdX/E/zOnohmK3PCv8AyFZP+uJ/9CWsbFbXhb/kKSf9cT/6EtefX/hsuHxI6yikorxjsMXxX/yCo/8ArsP/AEFq5HFdd4p50uP/AK7D/wBBauTxXqYV/uzlq/ETWaLJOUc4VkYMfQbTXzP4v0yw0u5hi0/U2vUIO4E/dNfS9uhaRlUElo3Ax3O018m31lc2N00d3C8Lkk4cYNfccLxvWqNSttp33OCtByqRlzWtfTuVxkH/AA7V1nh7wHqes6U+pxTpbQqpYFyQSKo6T4R1LVdJm1KBAYIOSO7AeldFqvxGC6BDpmjW32V0i8qWQDBI7ivazTG4ury0cr5ZS5rTbd1Fdbo5atRzfJT3/re5heD/AA7H4g8UHTrmQoFVmODy2O3NXPHfhew8PzW7WEjATLkwseU+tctbXs9ndi5t5GjmU7g4PQ0/UNTu9Tn829naV/VjmuuWCxzzGGIVW1JKzhbd9zT2c+dPp/XQ6b4ZxRSeLA0iFzFEzpx0IHBrtfC0xlvNalmOWa3kOT65Fct8KpRHrGobWRZms2Ee48k+1bvhyQx6fq/mcExMGzX5DxvKU+IaUXt7lvnI+wyuMVkmY1Otkvw/zNAPv0OOMEgrocBJH+81ZFwFvPhfeJOoka3lHlE9VHHStuyi8zRycZ2+H4D/AOPPWJZER+B9UkugVgxhW9W44rzsVKdLiSlKP80dvViw0Yy4XxfeNRNfdH8TzCBBJcxxscBmCk+nNej+KvAelaX4b+2WjyxSxqDmUgiX6Yrzbdg7lPQ5FXrrXNQvrJLO5upHgQ/KhPFfuGYYTG18RRqYeryRi7yX8y7HyVSE3JOP9f5m14c8F6l4k0me4tplSCHoGP3m9AK5y7tJbG6e3uEMckZwQR0rf8HeL5vC98xMfn2suPMjPb3HvW3eaTcfEfVrvUtGTYsajeZOMnA49zXJ9bxuEzCp9aSWHtpLaz7P1MXUdGV57Py0OChYpMjBiuG4YcEe9fTPguxs7LwRGthctcq92zu7Nk7ii5FfNNzbS2l09vcIUkjYqykdDXv/AMJLS4tfhsFuoniZr6RlDDqNq81ycUJSw0KilpfbudMYqVSM1Lo9O51+KMU7FGK+Budg3FFOxRRcR0vioZ+y/wDA/wD2WuexXReKP+XX/gf/ALLXP4rmw/8ACRrU+JjcUYp2KMV0GZW1H/kBar/14T/+gGvkqvrfUh/xIdVP/ThN/wCgGvkivuuEvhq/L9TOpshewr2X4VKy+GdQL5ObeQj8q8aHJFe5+DohZfDqWXAEnlFSR71weI9RU8hnD+ZpfiY0U54/C011nH8NTg5P9a31ptK3+sP1pDX4Mj+popWQUUUUFhRRRQAUUUUAFFFFAnsdD4zP/E3s/wDsHW//AKBXPV0PjP8A5C9p/wBg63/9Arnq1rfxGcWX/wC6w9AooorI7gooooAKKKKACiiigDuPhw/zahHzyEIH4815J4hVl1+9yCP3zfzr1X4cSBNRvFY4BgJ/ECvPPHVr9l8SzKRjd8w981+neGdZLF4ql1fK/wAD+e+No+z4jd/tQX4P/gnNV7X8BedI8Qf9dIf614pXtfwE/wCQT4g/34f61+o8Sf8AItn6x/NHz1P4j1HFGKdijFflxsNxRinYoxQA3FehV5/ivQK4MX9k3o9TlfE4zqcf/XEfzNY2K2/Eo/4mUf8A1xH8zWPiumj/AA0Zz+JjMV498fP+QroX/Xk3/oZr2TFeOfH3/kLaF/15N/6Ga+j4f/5GMPn+TM5fCeSGr2jy+Tq9s/pIM/nVGrNi2y/hY9A4P61+o1lenJeRx1FeDXkeyePWLaZo+f8Anjx+dcRXb+OgG0bSHB5EQFcRX8gqPLOce0pfmz974Ld8hw3+EKKKKo+xCiiigAooooAKKKKBM9Q+FWozs/2B7bzYcO6Mf4TtP/6q5fx1fT3erRxzxeSIF2Ig7AV2fwsuoDYCCCRI7lWYvnqy7T3rlviLLDJqVuI2DyrHiRh3NeZTt9YWnV/kj4DB1IPiOrFULO3xf13/AEONooor1D79BRRRSGFFFFABRRRQAV273hj+E0xCgny5F/UVxFdnqQWH4Rq5/wCWiSDA/wB4V35SubNsIv76/U/OfEZr+xbf34fmeLtzRQaK/rBbH44fR/wr/wCSU6X/ANdp/wD0IV1eK5X4VDPwp0v/AK7z/wDoQrrcV+M4/wD3ur/if5nV0QzFbPhgY1OT/rif5isnFbHhof8AEyk/64n+Yrzq38Nlw+JHUUUUV5B1mN4n/wCQZH/12H8jXK4rqvE3/INj/wCuw/ka5fFephv4ZzVF7xJbP5UpkHVEZv8Ax018zapPrHjS7mvBbK/2cYbylxx/jX01CjOzqgyWjcAf8BNeZeDLCXRfCkVpdwiGe6uzvYgHKHPWvTo5xRyWhUxjipTvGKTfRt3scVWkqtSEYW59bX7JXZW+HGpQax4fi012EM2mpJvTZnfuXAJx6GvINVia31i6jbqsrY9+a6jSr680Lxte2eijzGmcxcnt6/rVrx14Xt9J02LUZZyby4kw69s+1fUZXRpZbmtSbl7uKtKMet7a/I8v64o14UZrdad++pwJoJpDRX6DY9M0/D+pSaVrtpdwyeWUkGW7AZ5/SvXNTsVs9M1i+Dq1vPGJUkHAII5x+deJojSMFRC7HgAVqXWuawNMGlXc8q26dI3BGPaviOIeGoZvjKGIU+WVNq/mk7lxxFanTqUKb0qK0vk73PWdHmBt47UMPNuPDkQjUDJYgtwB3rlPH1yum+H9N0VMLNt8yfB6n3HrVPxJql3o954Zu7CVopo9Gh2sPTLcVympXF9fXLXmoCVpJTuLupANcGB4bjPNoZpOSsk0l5pvUuWIqxovB6cjkp+d7Wt+pSNApKK/ReXQxH5/AV7B8MdLa18I3eoXEojt5JPMHzYJCgivMPD1pa32u29tfvshkbBNd/4qhvvCOgSWWnyltPm4U55Qnkj+dfEcU0oZlCGUxnyym0/WKetn3POxOLdKtClD4ntfY5HUbe88TaxfahptszRI5YnFe3fDLVp9X+HiPdhfMhvHiyBjICr/AI1yvw7tyPBtulqgMl3dbHfH3hzxXX/DzR7nRPB9xbXSbCdRkZcHIIKjmvmMfm9DFVKuWqNvq7iou+rVmmdlGlyuEp2s0+Xvo7M6PFGKdijFeWd43FFOxRQFjovE/wDy6/8AA/6Vg4rf8S/8u3/A/wClYWK5sP8Aw0XU+IbijFOxRityCrqY/wCKf1X/AK8J/wD0A18jV9dap/yL+rf9eE//AKAa+Re1fd8I/DV+X6mdXZDh94fWvd7WQWfwxJPDtFGV985rwhOZFHvXt2ouYPhlYjOGdEGMV4fic/8AhMpQ7zRtk9L22e4OP95v8DhSckn1ooor8UP6cCiiigAooooAKKKKACiiigT2Oh8Z/wDIXtP+wdb/APoFc9XQ+M/+Qvaf9g63/wDQK56ta38RnFl/+6w9AooorI7gooooAKKKKACiiigDp/Akxj1xk7SIVNct8Uht8XODx8gA/Kt3we5TxVYjPDyBSB35rJ+LAx4r6Y+Uj9a++8OpKGdVY/zQ/Jn4X4hUeXOMPV7xkvuscJXtnwD/AOQT4g/34f614nXtvwB/5BXiH/fh/rX7BxJ/yLZ+q/NHx1P4j1TFGKdijFflpuNxRinYoxQA3Fd7XCYru64cV0N6XU5jxJ/yEo/+uQ/mayMVs+I/+QjH/wBch/M1kYrpo/w0Zz+JjcV418fv+QtoX/Xk3/oZr2fFeM/H/wD5C+h/9eTf+hmvo+Hv+RlD5/kzKXwnkdS2v/H1F/vCoqltv+PqP/eFfqk/gZyy+FntHjb/AJAOk/8AXMfyriK7fxt/yAdJ/wCuY/lXEV/IlT+PV/xS/wDSmfu3A/8AyT+H9P1CiiioPtAooooAKKKKACjNFFAnseofC7SYo9uoXDcSb0UAf7Jrl/HWmrYapG0Tl4ZlJTPUVvfDLXxDdR6bNC0seHdSAflwprmPF2tf2xqKFIzFHCu1VIwRXHCFX2qfS7/JHw2Fp5kuIKsqjXsrad/L9TAooorsPuUFFFFAwooooAKKKKACu111dnwhhTOTtc/ma4qu01w5+EMDHrhx+tenkv8AyOMJ/jX5M/NvEe/9kRt/PH8zxWlpKWv6tPx8+kvhRz8KdL/67z/+hCutxXJ/CcZ+FOl/9d5//QhXXYr8Wx/+91v8T/M6+iG4rX8N/wDISk/65H+YrKxWv4c/5CMn/XI/zFefW/hsuPxI6WiiivJOox/En/INj/66j+RrmMV1HiP/AJB0f/XUfyNc1ivSw38M5qnxDoGMbtImMrG5GfXaa+fYPixqcVpPBeW0NxIzYV8bdvUZ4r6CT7kv/XJ//QTXx9L/AK1/94/zr6/IMrweY+0WKpqVuW1+m5xV6MJuMmtVfXqbOgC+vfEKXNoSJVfzGbritDxvJqN1epPqH+rIxGd1c1a3k9mzNbSFCww2O4omup7hQs8rOF6AnOK+++rfv41ElaKsu5wvDt4hVdLJW8yDHpRil6mkr0eh2l3Sr86ZqUN2qq5jYEq3Q+1a3i3xJB4huIpYbRYGRcMR/F9a5yiuWeEpTrKu17y2MJUKcqqqtao6/wAZuEbw0zjeBo8BK+vLVH4m8YrrulWljDZR26W46r1PHTpS+Of9X4c/7A0P82rk687BYWlVpUqs1rFu3zbLrUKc6inJarYKAKKWvbexZNaRSz3kcdvnzWYbcHvXbeK5NYvfD9ul3gx2uA4Dc59T61wqMUYOjbWU5BHarLapeMkitO7K/wB4E9a4K+HdSpCppoclehKpVhONvd7nSeGfHlx4d0uSxECzJu8yNi2CjV7L8Mdbu9f8Am5vypkW+kQbVA42j8+tfNfevoT4K/8AJNX/AOwhJ/6CtfI8R5Xg6FKWLp00qkpK76s7KdKPPzdvwvvb1O7xSYp+KMV8MdYzFFPxRQI3/EfP2b/gX9Kw8Vu+Iv8Al3/4F/SsTFc9B/u0aT+IbijFOxRitrkFPVf+Re1b/rwn/wDQDXyJX17q3/Iu6t/14T/+gGvkKvvuEfhq/L9TKrsh8XMqf7wr2zxDmP4faYmBnOGrxmwG7UIM/wB8V7X4q/5EHS/+ujf0r5nxQlbD4aP9/wDRnpcM+9xDhl25n+BwNFFFfjx/SAUUUUAFFFFABRRRQAUUUUCex0PjP/kL2n/YOt//AECuerofGf8AyF7T/sHW/wD6BXPVrW/iM4sv/wB1h6BRRRWR3BRRRQAUUUUAFFFFAGt4XJHiaxK8ETKc/jVT4txuNet3Zcbkbk9/mq14Y/5GWx/67L/OnfGYf8TWy/65t/6Ea+04BlbiC39x/mj8U8R9Mfg3/i/I8y9a9t+AH/IK8Qf9dIf614lXt37P/wDyC/EH+/D/AFr9q4k/5Fs/Vfmj4al8R6vijFOxRivyq5uNxRinYoxRcBuK7iuJxXa1x4robUupzniHnUE/65D+ZrKxWv4gH/EwT/rkP5msrFdFJ+4jOfxMbivGPj+P+Jxof/Xk3/oZr2nFeLftAf8AIZ0P/ryb/wBDNfScO/8AIyh8/wAmZz+E8j9asWKBtQgU9C4B/Oq9afh63+069ax4z844/Gv1GvLkpyk+iOGrJRpyb7HrfjlduhaR7xj+VcNXc+PwF03SADz5RyPTBrhq/kOM+eU595S/Nn77wXHkyDDL+6FFFFUfYBRRRQAUUUUAFFFFApXtoev/AAyt4odIhnijUyys6lyoJGFPFcr8Q4IkmsZjEsU8qHeqDr0wfxrU+FK6mLwtCStrtfknjO04rl/GI1Eav/xNQ28jKsTwRXDCP7xLTeWt9dlofnuDwNSPEdWv7e6t8N+/+VvxOeoooruP0JBRRRQMKKKKACiiigArtNVxL8IkQcFEkb/x4VxdegQxpdfCuZdociJ1/Emu7K6ns81wk30mj848Rr/2LzLpKP5nhJpadKuyRlIwQabX9YrY/HT6V+Ev/JKdL/67z/8AoQrrsVyXwk/5JTpn/Xeb/wBCFdfivxfMH/tlX/E/zOvohuK1fD3GoP8A9cj/ADFZmK1fD4/4mD/9cj/MV5tZ+4zSPxHRUUlFeWdJleIf+Qen/XUfyNc5iuk8Qf8AIPT/AK6j+RrncV6OHfuHPU+IQD93L/1yf/0E18eyD98/+8f519iAfu5v+uL/APoJr47l/wBc/wDvH+dfoPCL1rf9u/qc9TZHXeAvB0XiS7kl1K4+y2MWAZCp+Zj2FZni/RItA8Qz2NvI0iIfvEdRXoXgfT3Pg6xls5S8f2vzrpCcKqrjr+VcB431JNV8Y391CR5bPhcHjAqMpzTG47iDFUW/3NNJWtpfvcwlTjGNOrGd5S5rrsk0l83qSeF/Ca+I4LqQ30Vr9nHSQ/ern54vKnkj3BtjEZHQ0sVxNArCKRkDfeCnrURP69a+2pwqxqylKV4vZdjGMaiqSbldPZdjX8O+HbrxHqH2W0ZI8DLSSH5VFQ65od3oGoNaXygMOVYHIYeorsvCYWy8C3z/AGdjc3soiilx0AwcCnfFN7eaTR4IcPdJaKJAvUHHQj1r42jxNWrcRTyyMf3cU9eqatf5anbLCzhhYYxy0lJxS9Fv95i+OBlfDgHfRoP5tTJvAOrw+H/7VKAoqhmiH3lX1PtV7xjbtDceFzdRssY0qAMSOPvNxXoFu0j68llIXS1vrLYCxyCuDXn5zxJXyWhhvYxTjOTu/K/5lUMNPGzqRpS1jFy9bdDwkLk10mheFV1nSbi7a+ihMQPyE88d6xtUgFpq11bjkRSsgPsDioI55YVZI5GUMMMFOM19/W9rXop0Z8rdnfc8+qp1Ka9lKz0Gsu2QjOdpxkd69DX4eW9x4Rhu7S43XrxGbYTjIHUV50eTXtPgC3k1PRdJuInW4Nm7LNDnJVDk8j06V8lxlmGNyzCUsThXa0lzaXujop0YVaijUny6N380ro8YdCkjK3VTg19B/BQf8W1f/sISf+grXiXiu3S38UXyREFfNJAXoOele3fBLn4bP/2EJP8A0Fa6OIqvtsrhU7tP8B4eXMlLujvcUYp2KMV+d3OkbiinYoouBu+IBn7P/wAC/pWNitrXxn7P/wAC/pWPiuaj/DRc/iG4oxTsUYrYkpavx4c1b/rwn/8AQDXyCa+wNZ48N6t/14Tf+gGvj819/wAH/BW9V+plV2RY0/8A5CEP++K9r8Vf8iBpf/XRv6V4tpiltTgAGSXFe2eMCB4MsUAxtlY49uK+V8UJL2WFX99/kz0eF/8AkpMOvKR59RRRX5Gf0gFFFFABRRRQAUUUUAFFFXtO0e81WQJZxM5zg4pSkoK8nYyq1IU4uU3ZGn4y/wCQtaf9g+3/APQK56u98beE9SW5t7pYSUjsoI2x2IXmuDZSrFWGCOtXOpCc3ys4MqxFKrhY8kr2EoooqT1AooooAKKKKACiiigDV8M8eJbH/rqv86d8ZedUsv8Armf/AEI1X0Nymu2W3g+co/Wr3xihAurV1/hj5yfevsuA3y8Qx84P80fi3iQksZg5f4vyPLK9v/Z+/wCQZ4g/34f614h3r3D9nz/kG+IP9+H+tftnEv8AyLJ+sfzR8JT+M9axRinYoxX5QdA3FGKdijFADcV2VcfiuwrkxPQ1p9Tn9eGb9P8ArkP5mszFauu/8fyf9cx/M1m4rel8CIl8QzFeKftA/wDIa0T/AK8m/wDQzXt2K8S/aC/5Deif9eR/9DNfScOf8jKHz/JmU/hPIRXQeCXWPxdZtIQF3jr9a5+nwzvBMskZIZTwRX6niKftaUodzhrU/aU5Q7qx7b8RFY29hIAPKKnaQOnNcJ2r0LwxfR+MPB/kXqhmVSN3dWA6/TArgrmMRXMiKcqpwDX8k4jB1MuxdXA1l70G/mnqmftfAWaQxmUxoWtKl7r9URUUUVmfoQUUUUAFFFWIbC6uD/o8Ekg/2VobUdyJzjBXk7FerVlpt3qMmyyt3mPfaK1rLwXrF79232rjncQMCuse6g8C+FnHmqbo8yEHGT6A08PCrja8cNg1zTk7LsvNnx3EHFmDynDOUZKc+kU9zd8EWM2nWdnaXA2TBXLIOxIPWsDxjpN1q2lWbWkLXFzCWWQKOQO3H0rmPB/xA1XV/GkUTsAhhnPA64jYj+VY+j/FHVoLyNLlw0ZIG4cHrX3U/D/MFhlTpyi6sPefZ3vp+B+HYbOMzwubPOHBPmcrxv0aX+RBPby20hSeNkb0YYqOvTdf0SPxda217pkieftG9Rj5x61xd54U1eyYiS0dsHHy818BKfspulXXLNaNM/fcl4kwGa4aNeE0m903qn2MaipZ7aa2bbPE8Z/2hioq0umro+mi09UwooooKCiiigAFei6GPs3w2uDckIGYsoI7Vx3hyyj1DXLeCY4Vm5960vij4gfT7aPRrNfLiZMcDHFetkGAqZnm9HD09OVqTfkj8q8R8wjHBwy2KvOq/uS3Z5XfkG+lKnI3GoKD9c0V/VEVaKR+VRVkkfS/wjH/ABanTP8ArvN/6FXY4rj/AIRf8ko03/rvN/6EK7PFfiuYf75V/wAT/M7OiGYrT0EYv3/65H+YrPxWloX/AB/P/wBcz/MV51X4GaR+I3qKKK806TM17mwT/rqP5GuexXRa7/x4p/10H8jWBiu+h8Bz1PiGkfuZv+uL/wDoJr45l/1z/wC8f519kEfuZv8Ari//AKCa+N5f9c/+8f51+h8Ib1v+3f1Oersi5aa3qVlZyWlpdyxQS53xq3DVROTSrjI3dM81ta1LojafaDSI3W4VcTFu5r7NqNOouWPxbtfqcTcYTSUd+q/UxM0ZpDxSgZrosrGx7n4BvLC78GWqrGJJbRmbB6I/PPucVzHjd4dF8V2PiCAreCYB3DLjkcYqv8K9Yktr650pmPlXEbFVXGS+MCugfS7bV/B11aa0Ra/YJGMcrHDZ5OPevwerzZHxdN1LunW7au0v8mVDAutl9XEVKl/ZOyjt7kt/Vt/kUviPrqeIU8PadbWjCS7tIplJI43EgDp7V2un2FraWcMcy7xZHyyhPKNt5yfTmuc0zQbHULzRLq5JkmtdHgaCNDglstzUcmuz6Z4V1i/uJVMtzO0KRv1z6j8K4+Jn9eq4XJsImrSu/m+/khUcvi8HXxVGbg6dlHXeUuluqsea+L57e48VXslonlxeYQBnuOtYlPlZ5HMj8sxyT60yv3zC0lRoxpLXlSRlTjywUWLnNXrDWtR0kONPu5bcSDDeW2MiobE2y30P20E24ceZj0q94kfSZNULaCrLbbRgN60T5JzVKUbp/cTOSlNU5RunrfoZUkrSuzuSzMclieTX0L8Ef+SbP/2EJP8A0Fa+dxX0T8D/APkm0n/YQk/9BWvneKUll6t/Mjrpbnf4oxT8UYr8zNxmKKfiikBta7/yw/4F/SsjFbGt/wDLD/gX9KysVhR+BFz+IZijFPxRitiShrQ/4prV/wDrwn/9ANfH3avsPWx/xTWr/wDXhN/6Aa+PO1ff8H/BW9V+pjW2RoaCM67aY5/eDivZ/H8oGh2cQByXJ6V5B4VTf4ltCf4XBr1r4hsfslipxjZur43xQknVwkPNv8D1OEY8/EtLyi2cFRRRX5Yf0aFFFFABRRRQAUUYoAJIAGSegFAm0OVS7BRyScCu+lvD4L+H6zBENxMNzjGCTngH8KztA8JOqx6lq7CC2jbdtY4Ld65f4k+LE1q9Frat+5i67ehr6PhbJ3nWYwvG9GGsn0utkfjXHmeU8RGOV4ad23eduiXT5noTeNZ5vGdlp9yFEc+mW8gH+0yAnNct4x0xdO112hQpDOPMQEcYNc742u3svFel3ERw8emWZ/8AIYr0SKWy8e+H4vLuFW8iX5c+uPumvc4vyBYWlRzLDQ921p2X3M+a4Xzankea8taVqNTTyUv+Cee/Siruo6Vd6VcGK7iKEHAPY1SxX5+pKSutT+hqVSFSCnB3TCiiimahRRRQAUUUUAW9Kbbq1q3pKp/Wtz4xx4WB+h2KMfhmsDT22albse0i/wA66v4vYuNKEwBG3Zz/AMBFfT8G1OTiOj5qX6H414mJKWEn/et96Z4tXuH7Pf8AyD/EH+9D/WvD69x/Z6H/ABL/ABB/vw/1r924l/5Fk/Vfmj4Cl8R67ijFPxRivyg6RmKMU/FGKAGYrrq5TFdVXJiOhrT6mHrf/H6n/XMfzNZ2K0tZGbxP+uY/maz8VvT+BES+IbivEP2g/wDkOaL/ANeR/wDQzXuOK8O/aE/5Dmi/9eZ/9DNfS8N/8jKHz/JmU/hPIafFGZplRBlmOBUZrqPh/pg1TxRCjqGVAXKnviv0/GYiOGw868topv7jz69RUqTqdkel6ZaReEvh++5v304AA6EOR1+mDiuDb5mJPUmuv8faikl9Fp9uQYbZRyPUjP8AWuPr+Tq+LqY/E1MbU3m7/Lp+B+7cFZS8uyqDn8dT3perCiirmn6Vd6nMIrOB5GPoOPzrFyUVdn2lSpCnHmm7Ip1o6boeoarKEtIGbP8AERgfXNdRaeELDR4hdeI7mPcvzeSHAGP61S8QfFK1tLVrLRowSpwhjAVU+leplmT5lnEuXBU/d/mekf8Agn5rnfH+Fwk3QwEfbT8vhXqzSs/C+kaJA1xr1wjuozjeAv51Q1P4p6do48jw/COP4oxt49/WvLtT8QalrEjNfXTyAnO3tWbiv1rKfDnAYdKeYP2s/wDyX7j8tx2ZZpmsubG1nb+WLsv82d7d/FfVLlSEhjRuz9xXJatrl9q9wZL24kkB6AnOKziaDX3+DynA4H/dqSj6I82nhKFKXNGOv3nV/DT/AJHm3/697j/0S9cr0+tdV8M/+R5g/wCve4/9EtXKk1rT/wB8n/hj+cjs6G5oni7U9DXZbTMYieUJ4NdTbfF3UYZEzbqoH3inBNec0Vy4zI8txzbxNGMn5o4Z4OhOfO1r5aHt1h468P8AiVQmsQohYYPmMNxP+9Sah4Fiu1Nx4euFmQjPlk8n6eteJDj+lb2ieL9V0OZDb3LtGOsZPavzzN/DfD1L1Msn7OXbeL+R7mW53m2UO+Gqc8f5Za/czfvLC5sJjFdRNGwODuFVz6V3Nh4+0TxPbpZasoV2XB3gDB9mqDUvAxMLT6JMLpB1XcMj/GvyfH5fjcqqezx9Nx8/sv5n6rknHWAzFqjiP3VTtLr6PY42ipJ4JLeRop0ZHU4IYVHXHe+p+gxkpK6LWmXbWOpwXK9Y3Brf+KWlpq2kw63aDcFXLY7k9R+FcsK73wxLHrXhO70if5pI1LBj2Tv+uK9PJcwlleaUcYtr8svRn5r4h5a6+AWNpr3qTv8A9u9UeGUtW9VtfsWqXFvjHluVqpX9VQkpRUl1PyGMlJKS6n0z8IR/xafTf+u8/wD6FXaYrjfg+M/CfTf+u8//AKFXaYr8WzH/AHyr/if5natkNxWjon/H6/8A1zP8xVDFaGjDF4//AFzP8xXm1fhZpHc3KKSivOOgz9b5sk/66D+RrBxW9rX/AB5p/wBdB/I1h4ruofAYT+Iaw/cT/wDXF/8A0E18ayf65/8AeP8AOvsxx/o8/wD1xf8A9BNfGcn+uf8A3j/Ov0Pg/et/27+pzVdkMozRRX39jnFqazmW3u4pZEDqjBmU9CM9KgorOcVKLi+oNXVme/6Rd+Eb/S49VtkitmgAZ1jjAMbgdN1cb4s1E6j4UvJQWCfbNyn1BzXM+DvE0fh++cXsfn2U67ZYiMj64q/4p8TJ4jEWm6BZiK3XLMEXBc+tfjUOE8ww3EUK6k5UU+ZOTvyrqu+50wxGFo4GphlTftJNe99m0Xf7zptJwfGnhMOx2jRImKg43YLVu6Aukaz5tvqaRvLZyySJHIOAMcn3xXDeIpr7RbjwzqdujL9n0mDc2OPvNxVnW/iJp11o839mWEdvfXKbZHVMbc9fzoz3IMxzHFYetgXZapyTs4+87/ga0sXhqdCtQrU3Nz5bW2TXfyMn4garo99fRW2iRRiOAYaVIwgY/QVxp6Uu7Lc80nav1nL8GsFhoYeLbUVu3dnn06apx5UJmlzmkor0bFAK+ivgd/yTaT/sISf+grXzqK+i/gb/AMk2l/7CEn/oK18jxV/yL1/iRtT3Z6FijFPxSYr8xNxuKKdiigZsa1/yx/4F/SsvFausf8sf+Bf0rMxWFJ+4i5/ENxRinYoxWlyTP1wf8Uzq/wD14Tf+gGvjvtX2Nro/4pjV/wDrwm/9ANfHHav0Lg/4K3qv1MK2yOg8EAHxXaZGRu6V6n8RSPJsF/6YqTXl/gNPM8YWSZxufrXpHxFlLzacOm23A+vWvhfE53x2Fj5SPc4JjzcR+lP9TiqKKK/ND+hQooooFcKBV/TdFv8AVZRHZQM5PfGBXW2PhPTdGtjd+IbhCyc7A/y59CalSc5+zpxcpPoldng5txBl+U0+fE1Euy6v0Ry+keH7/WZQLSFin8TkcCuuFpoPgm2S71GRbi5X+FgCAfYd/wAcVz/iL4pQwwGz8PQoq9CyLgfX3rzPUNVvNTumnvZmkdjnk9K/SMj8P8XjWq2aPkh/It36s/Hc44xzHNb0sL+6pd/tP/I6jxZ8Qb7XZHhtmMNrk4GMEj/D2rjSc0maSv2zB4DD4CiqGGgoxXY+To0YUlaJ1nxE/wCQ9Yf9gm0/9FisTStavdGuhNZSlCOq9iPStv4if8h6w/7BNp/6LFcpurPB041cFCM1dNGlWEal4zV0ezaB440vxParY63EqTHjc2P0P9Kj1rwTNbx/adKb7VCeWVeSlePK5VgyEqQeCD0rrfDPxA1LRGWKV/Pt88huSPpX5pn3h5TqSliMrfJLfl+y/wDI9LKc9zLI5Ww8uel/I+no/wBCy8bxuVkUqw4II6Uyu/t77wx4zjHmOttdMOCowR7Y71jav4I1LT981sv2q2XnzI+cfX0r8ixeHxOBqeyxlNwl57fJn7LkvGGW5r7kZck+sXo/+Cc1RSsrIxVgQw6g0lYn2KknsFFFFAyaz/4/Yf8AfH866/4pHd4RV+7Ov/oIrjoP9chHGGBrrviWQ3gi3cHIbaentX0HCmnEOGfr+R+Q+J0L0MLLtNfkzxevcv2eOdP8Qf78P9a8Nr3P9ncZsPEH+/D/AFr994m/5Fk/WP5o/OaXxHsGKMU7FGK/JbnUNxRinYoxRcBuK6iuZxXTVzV+hpTMXWBm8T/rmP5mqGK0dXGbtf8AcH8zVDFbU37iJluNxXhv7Qv/ACHdF/68z/6Ga90xXhn7Q3GvaJ/15H/0M19Lw3/yM4fP8mY1PhPHq9A+EChvFvI7VwFegfB4H/hLM44wOa+44pdslxP+B/keVjP4L+X5oteJG3+Irw9P3mKzoYJLiQJChdz0Ciugu9Eu9Y8W3dvbIf8AWncxHCj1raub7RvAFmQ224vSOGxzn2r+ZMDh8RjZQw2EhzzaWnb1fY/fMy4mwWSYOmqnvTaVord6fkVNK8ErAgufEMwtkA3CMEZI9/SotX+JGnaFbvZaHCodOAVUdfUtXn3iPxlqPiG4fzpWWEnhAcVzxOc5/nX7Jkfh3Qo8tfM37Sf8v2V/mfjuaZzmWdSf1qbjT/kjt831NXWfEmo65KXvpywzkL0ArIoor9Vo0adGChTjZLojzYQjCPLFWCiiitygooooA6z4Z/8AI8wf9e9x/wCiWrlD1rq/hn/yPMH/AF73H/olq5Q9a4KX++VP8MfzkV9kSiiiu8kKKKKAFUkMCP510ugeONW0GZBHOZIBwUbnj2NczS1y4rC0MXB0q8FKL6MzqUadWNpq57fpvifw14whMGoxCCcjrgKw+nrWbrXg24sovtGnsbu2z94DkV5IjtHIGRirDoQa7fwv8SNQ0mSO2vG8216HI5FfkGeeHfLevlLs9+R7P07HuZTxHmmTNKMnVpdYt6r0YxgRwRg113w/cpe323vbMCPxFaE2j6X4ssGvdHdI7k87F/iP07VT8F2c9nq+oW88RSRYGBUj3FfkGMjVo81GvFwmraP1P07GZ9gs6yDE1cO/sSunutDzDxeNvizUAOnnGsatvxlG8fi/UA6lT5p61iV/XeCd8LT9F+R+JYX+BD0X5H058HR/xajTf+u8/wD6FXa4ri/g4M/CfTv+u8//AKFXbYr8czH/AH2t/if5nqLZDcVf0cYvH/65n+Yqlir+kDF23+4f5ivNqP3GaR3NiiiiuA3KGsf8eaf9dB/I1i4ra1f/AI9F/wCug/kax8V20fgMZ7jHH+jz/wDXF/8A0E18Yy/65/8AeP8AOvtCQf6Ncf8AXF//AEE18Xy/65/94/zr9E4P3rf9u/qctbZDKKKK/QDnCjNFFAC5PatzwprMWhav9qnQONhXkdKw6DWFanGrBwlsyKtONWDhPZnp/jzxHC/hfSrHylElxpsEoOO2WrzDrXV+Of8AV+HP+wNB/Nq5Q8V5uU0Y08MuXq3+bCFGFFtQ6iUZoor2LJFhRRRTABX0Z8Cxn4by/wDYQk/9BWvnMV9HfAoZ+G8v/YQk/wDQVr5Hir/kXr/Ejel8R6JijFOxRivy86BuKKdiimBq6v8A8sf+Bf0rNxWnqgz5X4/0rPxWFL4EVLcZijFPxRitCTO13/kV9X/68Jv/AEA18b19k6+MeFtXP/ThN/6Aa+Na/QuDvgreq/UxrbI6b4ff8jtYf9dK73x/xqNquckQAH261wXw+OPG1h/10ruvHv8AyFoh/wBMx/WvhfEv/kY4b/DL9D6LgSN+IZvtT/U5WgUVd0vSrjVrxYLVSefmbHCivzSTUVeWx+81KsKUHOo7JbkFtaz3k6w20TSOxwAozXZaf4PtbC3+1+IJkRRyY84I+tSXuoaR4A0/5JFl1Ajgnk15Tr/inUNdumknmdUJ4QHivsuHuD8Zndq1Z+zo/i/Tsfi+e8c4jFTlh8p0itHN/wDtp6BrvxLsNPtWs/DsSrt+XKDA+v1rzjVPEeqas7G9u3dWP3SeKy80ma/b8p4cy7KKfLhaaT6vq/mfnvsVKo6tZuc31lqx2aQnPSjNJX0KVjcKKKKHsC3Ot+In/IesP+wTaf8AosVyVdZ8RP8AkPWH/YJtP/RYrk64cu/3WHoOW4UUUV3NXJJYp5YHDxSMjDoQa7Hw18SNU0aRVvJnuoegDAfKP8+tcTnFLu4xXn4zLcLj6TpYmClF9zKpRp1PiWvfr957jDfeG/G8I8kJa3fcgYwfU+v4VzuueF77RJP3q+bD2lTkGvNLe5mtZRJBK8bDoVODXpfhP4j7o003W0EkbfKHY5z9a/G8+8P6mETxGVO8Vq4P9H+h9RlHFuZZO1Gu3Wo+fxR+fUxSMUV13iLwqiW51HR/3lsfmYKfu1yJr8wjLmbTVmt12P3TLczw2ZYaOIw0rxY+H/XJ9RXY/ENc/D6DI6AYrjUbawI6g5rsfHjFvhnZk9Smf1r3eGm1n2Ffm/yPzvxKjfBUJf30eLd690/Z2/48PEH+/D/WvC690/Z1/wCPHxB/vQ/1r+guJv8AkWT9Y/mj8xpfEex4oxT8UYr8kOoZijFPxRigBmK6SuexXQVzV+hrTMnVv+Ppf9wfzNUcVf1QZul/3B/M1TxW1P4URLcZivCv2h/+Q/ov/Xkf/QzXvGK8I/aI/wCRg0X/AK8m/wDQzX0vDX/Izh8/yZlU+E8er0b4WSC2uZLhhxnAbGTXnJr1T4TWnmQSyuuVDHGe9foWeKnPAVIVNno/mfN51U9ngpS9DU8U/EOy0uGaHSo1N1Jw7KpGfc5ryC/v7jUrh7i7lMjsc8npXQ+Pvs6+IpVtwAVJDYrleMVx8P5Jgcrwy+qU+Xm69TpwSdSnGvUblJpavf0Eooor6g7wooooAKKKKACiiigDrPhn/wAjzB/173H/AKJauUPWur+Gf/I8wf8AXvcf+iWrlD1rgpf75U/wx/ORX2RKKKK7yQooooAKKKKAAUtJSg0mBr6D4ivNC1BLi3kbaD8yZ4Ir2XQvGum63blkQRXJGGkK/Mw9MivA816b8KPs7yTLLgvtOAa+M4lyDLsfR9viKd5R2a0Z42auVDDzrUm4tqzt1Xmcv45Ak8QzXO9mMzZOe1c1XY/EizWz19kTO0kkE1x2K+kwDTw0OXayOvL5KeFg12Pp74ND/i0+nf8AXef/ANCrt8VxXwZ/5JPp3/Xef/0Ku4xX49mX++1v8T/M91bIZir2k/8AH03+4f5iqmKuaWMXTf7h/mK82p8DKjua1FJRXCblLVebVf8AfH8jWTitfU+bVf8AfH8jWViuyj8JjPcim4tbj/ri/wD6Ca+LpP8AXP8A7x/nX2rJGXt5lXktE4A9flNfG+saVdaPqDW16gWUjdj0Br9A4PnFTqxb1dv1OOtOKajfUoqpZgEGT7ClK4OGGMdc16D4E0FNPs38TatFvtohiKMkAux4HXr1rM+IMFj/AGnbX2nRmJL2LzGTtnODj8a9unxJhKuavK4O8kt+l+3qT7Gv7L26j+7btzeZyFIK7HVfClvp/wAPrPWGJ+0zyAHDAjB9u1cdyCa9zC4ylioylSd7Np+qOajWjWTlHo7CUUHrRXb0NTq/HP3PDn/YGh/m1cpXV+OfueHP+wND/Nq5SvOy7/do+r/Nlz3Ciit3who0Gu+I7exun2RSck7gP1NdeIrww9KVWeyV2ZTmqcXJ9DExTvLYLkqQD0JFbOtaJHY+MJNJtiTH5wjQk5POP8a9KudH0u+0+Tw1HsinihDJM6/ek7gV8zmfE+Dy2NCdS7jV2a6LuzSjCtiYueHhzJLmfkjxrb6HNfRvwIH/ABbiX/sIP/6CtfPV7ZTWGoS2kylZI32kHivpH4K6bPp/w4H2kBTNeNIoz2KqP6VhxRUhLL4uL3at5lUZx5lrud2BS4pwHFGK/NDsG4op2KKQjS1P/ll+P9KoYrQ1L/ln+P8ASqOKxpv3UXLcbijFOxRitLkmb4gH/FK6v/14zf8AoBr4zr7O8Q/8irrH/XjN/wCgGvjKv0Pg34K3qv1MK3Q6TwB/yOtgP+mldx48yPECqe0S8fnXEfD8f8VtYf8AXSu08df8jRJn+6K+F8Sf+Rnh/wDC/wA0fUcBRvnlWX/Ttfmc9DG00yRoCWc4AAzmu5v7q18B+GN4XN/KvIz3NUfAelpc3s99P8sVqm4Mezdq4Tx3r761r0uHzFCSqqOnXrXgcI5Is6zL96v3VKzfm+iPT4+zipUqxymi7J6z9O3zMLUNSudUvXuryQvI5zz2qoelJmiv6UhTjTioxVkj86jFRjypBRRRWgwooooAKKKKT2GtzrfiJ/yHrD/sE2n/AKLFclXWfET/AJD1h/2CbT/0WK5OuHLv91h6DluFFFFd5IUUUUAAp2cYwTkHtTaM1LV2M9H+H/jdre4XS9U/ewSDapb09K0fFug/2ReLPAM21x8ykdF/2frXlUcjRSK6MVZTkEdq9w8N3Efi7wK1rOwe4gjzk9iB/M1+J+IWQ08Olm2HVuk0uq7/ACPb4XzaeTZlGF/3NV2a7S6NepwXf3rsvHP/ACTOyH/TMfzrj5F2Oyf3SRXXeNiW+FenE9fKP/oZr4Xh1/8AC7hP8X6H3niOubLaMv8Ap5E8ZFe6/s6f8eXiD/eh/rXhVe7fs5c2fiHP96H+tf0FxN/yK6nqvzR+WUfjPZsUYp2KMV+R3OsbijFOxRii4DcVvVh4rcrCt0NIGZqQ/wBJX/cH8zVTFXNR/wCPhf8Ac/qaq4rWHwomW43FeC/tE/8AIw6L/wBebf8AoZr3zFeB/tFf8jFov/Xm3/oZr6Xhr/kZw+f5GVT4Dx7qK9v+G8Qs/C8OVw8rkkkdq8SQZkUepFfQehW0dloNkp4xEHJr6HjjE1aGAhGlvKcUfFcSVLYeNPu/yPEfFDl/E16W5PmHmsg1p+I5Fl8QXjpyDIcVmYr7TCq1GHovyPosMrUILyX5CUUYpcV03RsJRRiimAUUUUAFFFFAHWfDP/keYP8Ar3uP/RLVyh611fwz/wCR5g/697j/ANEtXKHrXBS/3yp/hj+civsiUUUV3khRRRigAooxRii6AKKMUYpXQAK774UAnXZ8HAWItj1rgsV2vwwn8rxMY9wHmxFR+leNnnM8trcm/Kzzc1hz4KovI1fixB5jWl0qgA5UnPWvNa9j+I9qsnhmJ2XPlOckj1ArxzpXlcIYqeJyalOp8X/BOTIanPgortdH1D8GP+ST6f8A9d5v/Qq7rFcL8FufhNp//Xeb/wBCrvMV+eZl/v1b/E/zPrY7Ibiremj/AElv9w/zFVsVa07/AI+G/wBz+orzZ/Cyo7mlRRRXEbFTUubZf98fyNZeK1NR/wCPdf8Af/oazcV10vhMpbibxCkkjchY2YgdwAa+YUuLPxr8QPtMsflWkMe51kPUKfb619N3A/0K4/64v/6Ca+ZfA6iy0rWdQeLdvxboxHA3HJ/lXt4WvHA5fisdH+JGKUX5yujleCWLxNOGt5Pl087HTeNbWOyXTrOxVo7YwhkiySMnIzisHXPD7avr2m6TZvvNrADcNjhAxzXpGomyks11Ke3+0PBHvibd1wOOPrmvP/h7qt5qHjDVLm4jDrcROHZjjZwdoz+Qr5jhejjMNh8TnE2nKnF2be8n1O/MM7oY3C0cqwkeRUpWlfo72+emvqHifw7dR6ho/h6K68ywuOUK8/Nxn8v61wev6SdE1q4sGYsYmwGIwTXrumRyHxnZG4gMdvp1kCzf3XKgk/XivK/GGqDWPFl/eq5dJJTtLDBIr9N4YzPG4qtClUtyqmpSdvtSen4HzdKNOnXnSpSuot/nu/NmHRRRX6J0Ow6vxz9zw5/2Bof5tXKV1fjn7nhz/sDQ/wA2rlK83Lv91j8/zZc9xfpXZnwzNougafr1vcDznkUhQfu7vu/1rjK9a0/7H4i+FcgA2X1rtAVTksE6HH415HEGMxGEhRlSV4ymoy9Hp+Zw4uShG8nZfn5fdcoeKvCt5ayWviK2k8912vc/7DDmrWs+Y2t2d/ENi3Kxujg9TgZ/WtnU2kTwHc31kHlkuoFMqk5C8beT68Vl/Da9TWdGbT9RthMtm2YpDwR3xn+lfk2YfXc6yaVepZyoTcbLTTb+vI9vJs3ocO4h1ar5qXKk9NdVf8HoT/E/w5A2lnVoos3kWwysuAGUj0r0X4SauNZ+HcMgj2PDcGF/QsAP8a5DxQDqF9daYs2yaWzYgEcM3GBW58CUKfDydW5K6jIDj/dWtcoxdTFcP+zxMuadKaSfk0Z1MLCFaFaMXFTjzpPopfoejgUYp2KMVBqNxRTsUUCNDUOfL/H+lU8Vdvv+Wf4/0qpisafwly3G4oxTsUYq7iMzxEP+KU1j/rxm/wDQDXxhX2h4jGPCWsf9eE3/AKAa+LzX6Lwb8Fb1X6nNW6HU/DtA3jOyJONrZFdh46/5GiX/AHRXIfDn/kcrX612Pj4BfFkwHAwK+B8SJf8ACtQj/cf5o+q4Bv8A21Wf9xfmzfsYxpHw6e5UDzJlYNz2xxXhNwd1xKx6liTXt+vgp8K1MX3vIBP514YTkZPevp/DKio5XOst5Td/lofLZpVlXzrF1JP7VvuEorW0fw3qWtybbC3ZwOrHpSan4e1LSWze2zKMZ3AZFfpn1uh7T2XMubtfU8/29Ln9nzK/YyqKd7Ujda6b6mwlFFFMAooopPYa3Ot+In/IesP+wTaf+ixXJV1nxE/5D1h/2CbT/wBFiuTrhy7/AHWHoOW4UUUV3khRQKcOlK4DaKligluJlihQu7HACit8+BtcFl9pFr8nf1/KuetiqNFpVJJX8zGpXpUmlOSVzmxXpvwf1Dy9RuLV+UOJME9cdv1rzV43ikKSKVYHBBFdf8NmZfEq7f7vNeLxJQhicoxFOWzi/wAjDHf7u5LpZ/czc8U2I0/xBcQhdozux9ea2PGn/JKdO/65H/0OoPiH/wAjhPj+6v8AKrfjAA/CWzyBxBx7fPX848LSbzfBN/zfoz9Z42qSqcP4Wct3KB4rXu/7OH/Hn4h/3of614Qete8fs4f8efiH6w/1r+i+Jv8AkVz9V+aPzmj8Z7TijFOxRivyG52DcUYp2KMUXAbitnNZGK1qxq9C4lC/5nX/AHf6mquKt3v+uH+7/Wq2K0h8KJluNxXgX7Rf/Ix6L/15n/0M17/ivAf2jP8AkZNG/wCvI/8AoZr6Xhn/AJGcPn+RjU+A8fjGWXHXcK9+szJF4HVufMMBx34xXgVvJ5VxG+M7WBxX0BFOZfB6yxgq3kbSCPavsuJLpUVa/vI+F4ku/Yrpc8Ev9x1CbzDlt5qsKt6n/wAhKbPUNVnw5pv9r69a2ZGVkfBHtX03tI06PPLZI+n9ooUed7JEFppN9fDdaW0koP8AdWkuNLvbXP2i1ljx6rXut1eaT4Otbe1S2Du0YbKnBA96hj8VeG79Al9aNGT1dhv/AENfkc/E6gq7isPJ007XXW3Wx6mHyPPsTh1iqNBOEtUr62PBf50n8Ne3zaD4J1ONhbyxh2OAX+THvXM+I/hU9nZm80eb7REATgHIP0NfUZXx1k+Y1VRUnCb6SVv+AefiI4rB/wC+UZU/NrT7zzWinyRPFIySKVZTgg9qaRX3iknsV5iUUUUwOs+Gf/I8wf8AXvcf+iWrlD1rq/hn/wAjzB/173H/AKJauUPWuCl/vlT/AAx/ORX2RKKKK7yQo70VYsrKbULtLe1QvI5wABUSlGKvJ6CclFXexBSqCxwBkmvVtM+GNpZ2UV1rd0kZbornANbsFn4K0ohn8tnUZAWMPk/WvzzMPELJ8HOVODc5L+VX/HYrD0cdjEnhMPKafXZfezxyHQdTuE3Q2crj2Umq11Y3Fk5S6iaNh2YV7g/jXRLX5bKxYepDYH5U3VbTSfF3hee5t7fZNGpLbhyp+teRgPEmjicXGhVoOEZOyfmzox2UZ3ltD61jKKVPrZ3aPCTW/wCC2kTxLA0Rww5rDmj8qZkP8JxW94I3DxND5Yy3biv0/FO+Hn6M8zGNfVZtdmem/EoMfDZKHKE5IHrXiPavb/iLdC28OPFt3NJ1PYV4hXh8MN/UbNW1f5nicNX+pv1Z9R/BUf8AFptP/wCu83/oVd5iuE+Cf/JJtP8A+u83/oVd7ivzXMv9+rf4n+Z9tH4UNxVqw4nb/d/qKr4qzZf64/7v9a82fwspbl/NGaSiuQ1K1/zbr/vf0NZ2K0b7/UD/AHv6GqOK6afwmUtyC5H+hXP/AFxf/wBBNfNHgbxBpMWn3ei63uEMsnmKV/vDP+NfTN1/x4XP/XF//QTXxRkC557P/Wvr8kyuhm2ExGEr35Xy7eV2ctaVSDjUpScZJ3TXRn0RFqNglrbZYfYpIisAbrketZnhuytvCegapq0k4LTStIIyny47A+1eaeJPFSXR060swPs9moPHGW71m6n4t1PUbNrNrlhak/6utY8FueGVCEuSEmuZd4xe3z6nymEwuNjUdZy1ndtvfff1Oz8XeNYF0OOHSnUXV6ga4Zeq+3615exLMSeSeaCc0V+g4DL6OBp+zpI9fCYSGFg4x1u7t9RKKKK9LodZ1fjn7nhz/sDQ/wA2rlK6vxz9zw5/2Bof5tXKV52Xf7rH1f5sue4o7V0vgzxRL4e1ZckNbTELKh6YrmaXPvXRiMPCvTdOorpnPWowr03Tmrpn0Lpet6drN5daVD9naFYhgFht+brx681n+HLCLw5Fd2LmNLh5yYyWyGHOOPpXi2nareaTdfaLCcwyeoGc1qXPi28vZrW4uXZrmFgxkz96vz+fBzp1avspv2c+Vtf3o9X69TxMRl1d0Y4WMvcXV6v/AIa56nrmt+HtPM11dK39owrtG3gMe1dH8C5fP8A3MmMb9SkbA/3Vrw3xnrNtrmpxXdspUtEodfQivb/gD/yTmb/r/f8A9BWuDE5Dh8oyqUqUWpTkm9dt9F5HvYGeJqwg8VNuSikr9Euh6XijFOxS4r5Q9MZiin4opgXb3+D8aq4q3djOz8arYrGD90uW43FGKdijFXcRl+Jf+RR1j/rwm/8AQDXxae9fanibjwhrP/XhN/6Aa+KzX6NwZ8Fb1X6nNX6HU/DkqPGdoGOMtge9dh46OfFEmf7ori/h/wD8jtp//XSu18dpjxEXxw8YI/WvhfEmP/CpQf8Acf5o+o4CaWd1l3pr8zfgCat8Nfs4bMiBgwx6CvErW0+0avHadN0u39a9c8AX0Xm3Ol3DYS6X5R6t1x+Ncfe6G3h7x4BcqVikmzGx6Elq6/DvMo0qOJwLfvK8ku6f/BPC4twc8uzmvK2lRc0fXqeiXV9beCNGtoLGBHmcEAMvHHU0mma3aeMYpdP1K1hjnZfk2AAN+GKo/EdS0thKPu7WXjsQa4/T7ySwvoriL7yMCK/LZYjE1MRLG879rzN3v57H3OScKZXmHDlO8Fzzjfm683e5z3ivQpNA1qSAqRGTlD2xWGegr2b4lWA1jwxFqttGrNtVmIHQdMV4ywxx6V/TPC+cLOMsp4p/FtL1W5+V0lUpynQrfHBuL+QlFFFfUGwUUUUnsNbnW/ET/kPWH/YJtP8A0WK5Kut+In/IesP+wTaf+ixXJVw5d/usPQctwooorvJCnIhdwqjJY4GKQda3vB2lnVfEltGy5iRgznHAHvXNiq8MPRlVntFXfyM6tRUqbm+h6N4K8N2egaD/AG1qq/vQu4Aj9BV61+ITT3ywT2EK20jBflHzKM9c96reO9QMTQaTD8scSbnAPBb1/LFcjagtdwhepcAfnX8o5tmVbOcVPF15O1/d12XQ/U+F+EsJLK3icfTU6lVX16J7JF34raDBYXMV9bJs848hRxjsaPhDp4udVmlccY2gjtW/8Vyp0m0tzjc0cYGfUDBqx4R01PCfgua8uGUSzR7sHg5PT8q/TZ59OHBUamIf7ya5V3fQ/IKeFeJrf2dS15qjiv8ACn+iMLxjdi98TXEg6A7euelaXjQkfCnTsHH7o59/nNcnLIZZndiSWJOTXXeNwV+F1gp/hi/9mNfnvDMOTOsHDtL9GfsXH9OOHybD0V0nBfceMHrXvH7N/wDx6+IPrD/WvB695/Zu/wCPXxB/vQ/1r+huJ/8AkV1PVfmj8zpfGe2YoxTsUYr8fudo3FGKdijFFwG4rUrNxWlWVToVEpXg/fD/AHar4qzd/wCuH+7UGK0j8KE9xuK+f/2jP+Rk0b/ryP8A6Ga+gsV8/ftG8eJNG/68z/6Ga+l4Y/5GcPn+RjU+BnkumokmowLL9wuAc/WvoG9uLfTPD8ksoCxRRAK3bkcV4NoFm1/rVtAmQWcZx2Few+KtGlu/C0tvaPI8saghM/fFe/xXTw2IxmEo16rh717LrY+GzxxliKUJuy6+VzxS/mFxqE0qjCu5Irc8ASrD4zsGc4w9NuPBGuW1sJpLRipGcLycVl2Us+kapDcyRujwvnDDFfXTnRxeGnRozT0a0Z7s5U8RQlTpST0t+B6r8QLZo9TtpzyJIFJ5+tcjjPWvQ0e28deF4jC6rex/d55J9PpXIXnh3U7CUx3Fo6kHGccH6V/KdahUwFaWExK5ZRb36ruu5++cHZ1hsZlVKlzLngkmuqsZmTXZeBtXlW5NhdSM1tJgYY5C+9YFn4c1S+kVYLSQgnrjpXd+G/DI8OfaLrUvLMu3Eak7se/FcdeopWp0tZ3Vrb3OnijMMroZfUhjJJpp6aXfocD8RPA8ljdzajYoWjY7nUdvevOSMV7D4i+IWmSWl1b4klmkUqQ+MfhXkEnLFh3JOK/qDhWeZPL4RzKNprS/dH855bVqzhJTi1FP3b72GUUUV9aeqdZ8M/8AkeYP+ve4/wDRLVyh611fwz/5HmD/AK97j/0S1coetcFL/fKn+GP5yK+yJSikpc13kjo42lkVIwSzHAAr2f4e+Cf7Hszq+pL+9CbypH3R6fWvI9Ku0sdTguZF3rG4Yj1r2zQ/iDpupXqW1r5paY4eM4w1fnvHUs3ll0qWWx3+J+XWx5eMrOnXpqpFule8rf1scp4k1i51XWJnlcqithEB4ArGye9d94g8Dy3eoT3ekBWgb5gu4Ag+mK5CfRNRt2IltJF5x0r+dcPWouCitLdOp/T+UZhl+Iw0Pqk1y2WitoUK77wrGYfBt+xX/XIxBPfArnNN8J6pqEwH2do4sZMjcCtzxr4gtfDfhdNJs2V5mUjK/wAJIwTXs5Rg6uZZjRoYdc1pJvySPivEHN8PHLngKck6lR2t+rPGbsEXku7n5z/OtzwTqMWmeKbaecfKTt57ZrKtNOvNSm220LyuxycCtpPAuuK6P9nYDI5zyK/p7F1cOqTo1ZqN1bc/HMTUoeydGrNK6seq+NY4rjwjcsygjy9273rwOvdda0WSfwfLYiZ2eKLJOeuK8MlQxyMjdVODXzHBaw9PB1KWHqc6jJnj8PSi6U0u59SfBP8A5JLYf9d5v/Qq73FcH8Ef+SS2H/Xeb/0Ku/Ir4bM/9+rf4n+Z9tH4UMxVizH74/7tQ4qe0/1x/wB2vMl8Ja3LlFFFcxoV7wZhH+9VLbV67/1Q/wB6qmK6Kfwmctyvdj/QLn/ri/8A6Ca+J0hae6McYyzMcfnX21eD/iX3P/XF/wD0E18Y6TqK6Vq/2l494Univ0Lg9tRruKu9P1OLFOSjeO5nOu1yD1B5ptPmfzJnf+8xNMr9FjflVzBbBRRRVAFFFFD2A6vxz9zw5/2Bof5tXKV1fjn7nhz/ALA0P82rlK83Lf8Ado+r/Nlz3CiiivSICgHFFAoAl+zy+QZgjeXnG7HGa+kPgAP+Lcz/APX+/wD6CtfPqapjQJNPKdZA4b6V9B/s/wD/ACTif/r/AHx/3ytfGcUyk8v95faRph3Jydz07FG2nYpcV+WHeM20U/FFMC1cjO38agxVicZ21FisofCU9xmKMU/FGKsRk+Jx/wAUhrP/AF4Tf+gGvik19r+KBjwfrP8A14zf+gGvig1+jcF/w63qv1OWv0Ok8AME8aWLN0D5NegfECLbfWkp/wCWkIbH4mvL/Dl0bHX7ScNjbIASa9a+IzrNHpkiEMBFt/KvjvEylJYzC1lt7y/U9zgmXs+ItftQa+5nF208lrcJNC214zkGu61uzh8YeGYNSgGbu3ZWIXqrA8j6cVwFbnhjXpNG1BdzZt5DtlXtj1r83wuLrYDFQxlD4o/iuqP03i/h/wDtrAtUtKsNYv8AT5nTX0X/AAkXgwyhcXNrkhByTjrXnzAqcHgjtXq9jbpb6qZ7AB9PuULHb0JPXPvXBeKNGfSNUYFg0cx3xsO4NXmHsI4p1cO/3dX3o+T+0vkz5Xw3zaXsamT4jSpSeifb/gHT+HZRq3gy5s5v3gtwcj69K8NvE8u8mT+7Iw/WvYvAMjFdRgzhWRSfbmvItWGNYu+/75/51+peGFWShiaHRSTXzR8nxVhY4biGvy/ajGXz1RUooor9lPCCiiik9hrc634if8h6w/7BNp/6LFclXW/ET/kPWH/YJtP/AEWK5KuHLv8AdYeg5bhRRRXeSAr1H4P2UfnXV7MMhCFb6d68uFet/CghfDesMc4WFm4r4njqvKjkOIlHtb72ZTo/WJ06PSU4r72ZmvX/APaOsTzc43EDPpWj4L0sahravMP3NviRiRxkHgVzzAu5xzk/zr03QNHl03w04QgXUyh8HqVPb8OtfzfGjzuGGg7c2nour+SP3jinNaeRZNKUXaVuWK8zOvLP/hKfF8ZMebazcnBHAPeszxrrYu74WFm3+i24xkfxGtbWtXHhzS2062IN9MCZJAPuA1wDsXYuxyW5Jr1szxyxk6dKl/BpLlj5vrI+Q8O+GqtCH9p4xe9L4U+ierfqxYl3zIuM5YAiuw+IeIPh/bxYIIAUD071ydl/x/Q/74roPi5dfZtPt7ENlZAjgf8AAa9DhOk6vEGHiul39yOnxLm3QwtJdZ3+5HkVe9fs2f8AHv4g+sP9a8Fr3v8AZr/49/EH1h/rX71xP/yK6ny/NH5xR+M9vxRin4oxX48dwzFGKfijFADMVeqpirdZVOhUStcjMg+lQ4qef/WD6VHirjsJ7jMV89/tH/8AIy6P/wBeZ/8AQzX0Pivnn9pD/kZtH/68z/6Ga+m4Y/5GkPn+RjV+A8n0m9uNP1OGa15kVhgDvX0Folxc6lbQvPbGBpAPqPX6V4BobRJrlq05xH5gyfSvd9e1S60/w/DdaSyiJ12yOgyScdfpWniRjJYWhSjTpJyndKT+yeCslhneZ0cI2o31u+qT2M++8dmx1ae2azjeBX2nA+Y+vNG/wx4tVont0t526CTHHvurgJZXmlaSQksxySaaGIbIJB9RX47hKmIwbU8NVlCXdPf1XU/e8XwJk+KoKn7PlklZSjo/XQ377wfrfhe6+16FNJLER/q1XJxWlYeP73ylj1jTJ3dRgyFc4qroHizULeeCykdZbd2ClZBnFekX+mRMj7E8zd8ijZkjjqPavsaPE+FzFxw2eUIydtJ/59j8S4o4ex3Dso1E+eMtpK6l87bnP2HjOxvrSTyHMDKOUxjNeaeJPHuoveXNpaSgQn5SVGMVr6n8Pddjublre5VYWOcHg/lXnmraVeaVetDeoQ/XJ71+lcO5Tw8qjq4Hkk3Z6as+dwmHo1azlWqOb6KTbt95Tdi7FmOWPJNNNFIa/RErH0gUUUVQjrPhn/yPMH/Xvcf+iWrlD1rq/hn/AMjzB/173H/olq5Q9a4KX++VP8MfzkV9kSiiiu8kWrFjfTWF4lzasVkQ5BHaq2aWs5xUlZicVJNM9T8G+PLm/wBS8nVJVUdQQMHP1rrdS8c2VlOIfLa6fBOAoPNeO+HPDWpa1Nuscxhekh4Fej+GvAWqWeqC71V/tCKvCxjdk+9fmGf5Xw1SquvjFBNLbRHzGJp08LWc8PUa0+GLa1+RFf8AjbWdS/0XSNNnjEg2429Ki0X4dzXsrX/iK63j7zJKcAfU1307LZaXeXggQeSuUDrxn3rzDVvEWo6u5+1TYQdETgAV+e1uLIUIywuRUo0o7OXX5H2nCfCmK4gpfWqk/Z03vu5u3m9jqn1/w94dcwabZCd1GN6/KAfr3rR8PeKT4huZrSSGOIrGWi2KAxP1ry/rVvTb6fT79Li1JEqnjFfHYr22IbqzqOU97tvc/XKnAmURwM8NSprmatzPV+p2fjPUtQ0/SbnybciMgqX9K8OkcyOXY5JNfQOu3Ym8EyXGtEfaJomODwWGOD7mvn18b2x07V+/+H+L+t5Y6rpKDvZ2+1bqfguEy9ZbWrYS6bg7XXU+p/geM/CWw/67zf8AoVegYrgPgd/ySWw/67zf+hV6Fjmvj8zf+3Vv8T/M+kivdQzFTWwxIfpTMVJB/rD9K82XwlrcsUUUVzlkNz/qx9arYq1cf6sfWq+K3hsQ9yve/wDIOuv+uL/+gmvh+X/Wv/vH+dfcN8P+Jbdf9cX/APQTXw7L/rX/AN4/zr9G4L/5ff8Abv6nJiOg00UUY4r9DTOUKKXAo2/nRzIBKKKKOgHV+OfueHP+wND/ADauUrq/HP3PDn/YGh/m1cpXnZb/ALtH1f5sue4UUUuK9G6IEoFLj0pOlFwFFfS37Pv/ACTm4/6/3/8AQVr5oFfTH7Pn/JObj/r/AH/9BWvkOLf+Rcv8SOih8R6jijFOxRivyg7BuKKdiigCxN2qPFSyc4pmKzjsN7jcUYp2KMVVwMfxSP8AijtZ/wCvGb/0A18TmvtrxUP+KO1n/rxm/wDQDXxL2r9I4L/h1vVfqcmI6Do22yKc9CDXsmsmPVPAel3sXzSRE+aR714yPevWvhvex6v4audDuGBI5Re5PauTxDwM8RlSxEFd0nf5dfwNMrx0cuzTD4uXwqVn5KWlzmqO9WtQspbC8kgnQqVYgZ71Vr8JTUldH9LQlGpFSi7pnWeDdcaG4Gm3UhFvLxHk/cb1rovEugyatpflpzeWhJQf3l9K80hLiZPLyGyMYr2RJDb21k00u2YQx/vCcYYjua5Y4WdbFwhS+KV7Lz/4J+M8dxjkWNoZ9hdJ35ZL+ZHIeFtOm07RdTvbxGg+TCbuMkda8Yvn8y+mfrucn9a9c+I3jRDorWFrMplkO0+WMADvXjz9fxr+gPD3J8Tl+DqVsWuWdR3t2S2PiMbm0s7xtTMHHlTSSXkhtFFFfphgFFFFJ7DW51nxE/5D1h/2CbT/ANFiuTrrfiJ/yHrD/sE2n/osVyVcOXf7rD0HLcKKKK7yQFepfCaYS6bq9gGzNcxbET1zXltdB4O1/wD4R/xFFduT5bfI+PQ189xJl0szyuthY7taevQzqSnTSqwV3FqS+Tud7oHhi6k1XzL+B47a3f8AeZHXB4FdlrWqtpWnzag5UTP8sCZ6ehxTofEdtqyosD7g4yNiYxx1Ncx8R0kXUrdtx8hoxtA6V/K2Oy3F4atTjjI8spX69Fv959Vl+Zx42z+EMSuWjRXMoPrI5G6uZru5ee5cySucsxPU1DRmlALHA5NdK91aH7+oqKstjQ0C1N5rlrCrBcyD5j0HNVfizfG58TRwMwJto9hxXX+D7BdOsbnWb5QqIhVA4+8O+K8j1u9Ooavc3J/5aSEjJ6DNfpPhzgnWx1XG9IrlXq9z8M44zCGLzWGGg7qktfV/8Az697/Zq/1HiD6w/wBa8Er3v9mn/UeIPrF/Wv1Hif8A5FdT5fmj5Oj8Z7pijFOxRivx253jcUYp2KMUXAbirNQYqbNZzGiKYfOPpUeKlkGW/CmYq4vQT3G4r53/AGkf+Ro0f/ryP/oZr6KxXzt+0l/yNOj/APXkf/QzX03C7/4VIfP8jGr8B40OOh5r1f4Ya2dRsbjQ7vdKWXEannr/AIV5PXXfDXUTp3i+CQdWBFfdcVYCGOyivTmtVFteTR5dWcqXLXhpKDTXyLt3F5N3NGRjZIy4/Goa1fEsfleIrpfV93HuM1lV/MtN80Uz+pcLV9rQhU7pP7xUYxyB0OGU5BrpR491wWYt1n2qowGxzXM0VNSlTqW543sKvhaNe3tYp27o37fxlrEDhjc+aQcneM5p3xIaLVvCtpqyoBJuUSMBj5j1rnwMnA9a3vGu6x+HNnZSAgySLKM98ivp+EEqOfUPZaXbTt1Vj8v8QMDhaWEo1YRUZc6209TyukpaSv6ePzAKKKKYHWfDP/keYP8Ar3uP/RLVyh611fwz/wCR5g/697j/ANEtXKHrXBS/3yp/hj+civsiUUUV3khTvTFNpV4YfWpkB7Xp2pN4Y8AafcWSRm4uiY3DD7uBnNY7eMtaMgYXTJj+FeBV7ULbzfhvpN2jcBjle/TFcnX8lZvBV8yxE66vLna19T9h4Fy7ByyaFbkTk27u2t7m9qHjHVdT077FcygxegHWsGiiuGFOFNWgrH6BQw9KhHlpRSXkArc8IWkN34kt1ugfJQ73I7AVhjrXYfD22jmu755OClucH3pzi5rkXWy+92PLz/EywmV168d4xdvuOU+JniO41DxBLYbtsVq2w7ehNcKav65O1xrl3KxJLSE5qhX9X5Vg6WCwVKhSVkkj+bMPHlpLu9X6s+q/gYM/CWw/6+Jv/Qq9CxXn3wLGfhLY/wDXxN/6FXoeK/G80dsdW/xP8z2IfChuKkhHzn6U3FPjGG/CvNk9C1uS0UmaM1iWMm+4PrUGKnl5X8aixW0NiHuVr4f8S26/64v/AOgmvhuX/Wv/ALx/nX3Nfj/iWXf/AFwf/wBBNfDUo/fP/vH+dfo3Be1b/t39TlxHQbU32Sf7Mbjy28rON2OKfJYzRWMd06kRSMVU+pHNerQaVaRfDMWVyEDtZ/aRJjB3bsBa+hznO6WVRpOSvzzUfS/X5HF7803Ts7Xb9FucH4R8LSeJryRTJ5MES/PLjgHtWbrekXGh6vNY3Q+eM8Edx613UFv/AMI74PtbQAJeXjC4lYZDKv8ACD9a57x5M9xqdjLK255LNCT+dfOZbxPVx3EFTAxt7JJpeq3Z6VbK69DBUsfOXu1G0l5LZ/M5Sig0V+jdDzzq/HP3PDn/AGBof5tXKV1fjn7nhz/sDQ/zauUHWvOy7/dY+r/Nlz3HAZIFdpD4Akm8INqnngXIUyCAjkp61x9uBJdRK3QuB+tesz6gun+JLWN8raRwpCyjspABr5Pi/PsRk8aEqP2pa+i7Hfl+VVc0qypUZWcYuXrboeUQWs11P5FujSSc4UDmoXRo3KuMMOCD2r1bw1pS+GvF2pySWQvVRRJBu5JRj97iuO8YaeknjW4ttOjwJirInuwzXpYHiOhjMe8JBaKCkn3ueX+8S55r3dV81ucwK+mf2ev+Sc3H/X+//oK182XNu9pcyQTDDxnaw9DX0p+zyP8Ai3Vx/wBf7/8AoK1lxY08tTXdHTQacro9TxRinYoxX5Odo3FFOxRTuBM3am4p5pMVlHYpjcUYp2KMU7iMjxX/AMibrP8A14zf+gGviLtX294s48Gaz/14zf8AoBr4h7V+lcFfw63qv1OTEdBM1s+GNcfQdaiu1zszhwO4rGozX3lajTrU3SmrpqzOKpCNSDhLZn0LLaaV430+C4W4EMgX/WDox9DWRcfDe7imKxyrIvYrz/KvLtG8V6norKlpPiIHmMjIr0Gx+KFsLZRck+Z3KsR/KvwDOfDrMaFZzyyacH9l9PI9XAcX51k1JYfl9rBbd16m/ongVdNuxdanICqDKRjqTWjr1xGNMu5nZMFDtAPAPavPdb+KEk8Lx6b8hI27jyfzriLjxHqlzA0M1yzI3JWvW4d8P8TQrLGY2d6ieiWyR4Ge4/NeJqsKmKtCEdolO8nkmuZDI5bDEDnpVY0ucnJpK/bIRUVY7EklZBRRRVjCiiik9hrc6z4if8h6w/7BNp/6LFcnXW/ET/kPWH/YJtP/AEWK5KuHLv8AdYeg5bhRRRXeSFLSUo4pWA9K+FVyXvJoJXzhPkyelelX2k22vWa2V3IqyR/6pwR+Rr51sNRudOmMtnIY3xjIro9C8d6hp92Wu5TKjdc1+Z8WcGPOpOvSnyzS931PJpQx+W5j/aWCkr9u53svw4vUlKiQMAeCOQfxq/ZfD2CymSXVLoMo58uIgk1kw/FSy8kFtynHI8wj9K5vxB8S727DR6aViR/4urD8a/N8J4e57XrKFeoow6tdT7Kt4gZ7ioexo0VBvds2fiR4wiS1Gjaa/wAgXDgDhQP615OeaknnkuJWkmcu7dSair97yXKMPlGDjhaC0X4vuz52jTlG8qj5pS1b7sK99/Zn/wBT4h+sX9a8Cr379mYfu/EP1i/rXFxR/wAiup8vzR2UfjPdcUYp2KMV+NXO8bijFOxRii4DcVJTcU6pkUhjjJpuKew5pMVSegmNxXzp+0n/AMjVo/8A15H/ANDNfRuK+c/2k/8AkatH/wCvM/8AoZr6bhf/AJGkPn+RjW+A8Yrc8HPs8U2fGdzhfzNYfrWl4fnFvr9lMeAk6E/nX6vmFN1cLUgusWvvR5VZc1KS8j0HxqmzxbdqF28Lx/wEVg11Pju3lOsR6g6ELeRhx+AA/pXLV/JVOLjHle60+4/pLI8RCvllCpDVOK/IKKKUAlsKCT7CrPabSWpa0y0e+1KC3T+Nxn2HerHxc1Tdf22lRyK8VvGNpA7dq6vw7pcXh/RpNcv2Ky7P3aY+6PWvHvEGqtrOtXF43AdjtHoPSv0Xw6y54nHzx7Xu01yr1e/3H4Txvm0MwzKGEpO8aN3L/E9l8jNpKKK/fD44KKKKAOs+Gf8AyPMH/Xvcf+iWrlD1rq/hn/yPMH/Xvcf+iWrlD1rgpf75U/wx/ORX2RKKKK7yQpelJS5qZDPXPBcg174f3en8y3MH+rH90DBJ/HpXMspRirdRwai+HPiL+xNeWOU/uLg7HHauy8ZeHfss/wDadgC9rcHJx/AfSv5v42y95fnEqtrQq6p+fVH6HwBm0KE6mW1XbXmj5p7r7zkaKCCDzxRXx5+x3QV1vgyZbex1N26bP6VyQrr9LgWx+H+qXc4KNNzET3xwa6MLSdbF0aUd3OP5o+N43rRp5FXTfxJJfNnkN6+++mYdC5qGlc5cn1NJX9bR0ikfhMVZJH1b8CR/xaWx/wCvib/0KvRMV558CB/xaWx/6+Jv/Qq9FxX4Tmv+/wBb/E/zPUh8KG4pyDBoxSqOa81vQtDqKKKyKGvyKZipDSYrSL0JZU1Af8Su7/64P/6Ca+GJP9c3+8a+6dQGdNuh6wv/AOgmvhy9g+z3bJuD98iv0bgtr98v8P6nHiGrpFmfVnuNGttPZQFgkLq31GK9z020sL/wPaTTyKv7tWbJGSi9vzFfPY4r0zwrcv4g8GvpdsP9NssuAG5kj9MVhx9ha/8AZ9PEYbR05cz9HpcMvw2HrYmOHry5YT0b9Wn+LVivql8dU1d5+QGYKi5+6ucAVk/EaGO18QQ2qMC0NuiNjsf8mtjSLB7rWIYXRlQPlyRjaB61yPii6W+8TX1xE29GlIUn0FfJ+HeGdTMp1+kI/i/+Bc+944qUoLDYOltFN2+VkYx60UUV+89D84Or8c/c8Of9gaH+bVyldX45+54c/wCwND/Nq5SvOy7/AHWPq/zZc9x8TbJUb+6wNemeIZ1uprG5jQqslnGcnucV5kATnB6CvRrNptV8BWVyVDNaSNExXk7ei/1r8/8AEbDOeBpV/wCWVvvR9Rwjio4fN4KTspJx+b1X5HWeE2bWI4WVv9JtEaKUggF4iOOvXmvO/GNxJpfxClmj+9AyEfkK6fwrG9rePqk7tDa2iF3c/wARHIFec65qMmq61c3kzbmlckH27V874fYaviMbUxE9YQjyr59PkY8V4HC4bM5xoSup+849E3/mQaheNf6jPduMNM5civpL9ngf8W6uf+v9/wD0Fa+ZRX0/+z3D5fw3kO4Hfeu30+Va/QeLEoZaor+ZHgYe0ZJI9RxRinYpcV+T3O8Ziin4oouA4c0uKasiiQRlgHZSwXuQOp/DI/OpMVCehQ3FGKfijFO4GL4t48F61/14zf8AoBr4er7i8X/8iXrX/XjL/wCgGvh09a/SuCf4db1Rx4jdBRRRX6GcgZ4oooosgDNFFFKyAM0UUUwCiiigAooopPYa3Os+In/IesP+wTaf+ixXJ11vxE/5D1h/2CbT/wBFiuSrhy7/AHWHoOW4UUUV3khRRRQAA4pc0lFKyAM0ZpCQqkntTRNGWAB5IrnnWpU5csna5STY+im+ag6nH1pfMUkDPXpR9Yot25kFmLXv37MvMfiD6xf1rwGvf/2ZP9X4g+sX9a8Hij/kV1Pl+aNaHxnvOKMU/FGK/GbnoDMUYp+KMUXAZim5qXFRVLAOtGKco4pcU1sAzFfOX7Sn/I16R/15n/0M19IYr5w/aV/5GzSP+vM/+hmvp+Fv+RrD5/kY1vgPFjSqxVgQcYppor9mauece5eF57Xxl4PSzuJAtzEMK7nO0isbUfBeo2LnCF0B+8BXn/h7xHd+H74S27HyyfnQ9DXr+i/Ee0u7MC4uPJBHKvyK/AOKuC8xpYyWLyxKUJu7j2fkepk/FuN4dg8PODqUb3Vt4+Ry9r4W1G6fCRHr6V2OieDrfQz9s1dkeReVhb+H3NS3PxB06C3ZorxMgfdjGM15p4o+It1qgltrT5ImOGbPLV4mVcEZzmVZRxa9nT6935HdmPiFmGZ03QwFJwT3k9LFz4j+NP7RmOn6fJtiXhynQ+1ecntTmYsSSck9TTDX9D5XltDLMLHDYdWjE+Xo0VRjZu7erfVsKKKK9Q2CiiigDrPhn/yPMH/Xvcf+iWrlD1rq/hn/AMjzB/173H/olq5Q9a4KX++VP8MfzkV9kSiiiu8kKKKKTVwHIxjkVkOGU5B9K9m+H/jK31PTP7N1d1d8YKv0Ye3vXi461NbXElrOs0DbXQ5BrwM9yPDZ1hHhsQvR9n5HPWpzk1UpS5Zx1TX9bHtuq/D555ZLnSZhLETkofvLXMS+HNQhlKGI5Bx0qfwp8T5IisOqHayjCyJwTXb/APCc6U2Ga+jJPcpyK/nzHcH5/gKzp04qpDo/8z7HB+JeMwMFRzCi5SXWPU5zR/h/eXckcl2whgByxbjiqPxR16C20630HT/kjX72OwH+NaXij4mxW8GzT5RPKBxnp+VeP6jfz6neyXVy26SQ5NfbcGcG4yhilmGZWvG/LHs+54ma8R4ziOcXUjyUou6XVvpcqmikxRX7Ur2OI+sfgPz8JLL/AK+Jv/Qq9FxXnfwFH/FpbL/r4m/9Cr0fFfg+bf7/AFv8T/M9OHwoZijpT8UjDivMexY3NGaKKgYdaXFC8mnYq1sIqalxpV3j/ng//oJr4q0DQ5/EOvCxgYKWYlmY9BX2xfxtJp1yifeaJ1BPqQa+afDvh3/hC9XmvNTKSL5BYAPjP96vqclzGWCwmJ9jrVa9xd2rnlZjiIUIrn69vkUdd+Fy2ukzXNhdQtJApZk3glhXC6LrN3oOqR3ti5SRDyD0PtXrepaloj6Fd3+mAyytE26MMf3eRivFGbe5ZuCea+k4TrZrmGDq085h1tqt1baxhfCTnKGGm5wVviVnfqj0nV/ikt3ozx2VqIr2ddsrkYwPavNWYsxYnJJyaQ9eaSvqstyfBZXBwwkFFPVlxi46yk2+7d/kFFFFet0KOr8c/c8Of9gaH+bVyldX45+54c/7A0P82rlK87Lv91j6v82XPccDzXUeC/Fx8NXrLMPNs5+JYzXK0VrjMDQxtGVDER5oy3RnJcy0dn3W53HjHx62uW/2DTU8iyyCVAwT7VneDvCM3im9dVcQwQ8vI33R7E9q5r3r0P4Y61DbRahpd2n+jXKB5HB5GK+czDCzyfJ6kMoppSS91ef6mMuSlG9STSb96W7835lTxh4B/sHT01G0nSaAttdUcPg++K9k/Z15+HNwc/8AL+4/8dWuP1LVNEuvC+r6TpLJI4UNvJ5JzxivS/g14efw74KktZJPMMlyZc4xjKj/AAr4aWa47E5L7HNFy1ubqrNre9vK5th8RhniZUqEnJdG1Z/M77FGKdijFfNnrjcUU7FFAEBhQ3CTlf3qIyK3orEEj/x0flUu8+tNzRmsyh29vWje3rTc0ZoAjvLaK/sp7S7TzIJ4zHImSNykYIyORXDf8KR+Hv8A0L//AJO3H/xyu9zRmuqhjMTh01RqSjfs2vyJcYvdHBf8KR+Hv/Qv/wDk7cf/AByj/hSPw9/6F/8A8nbj/wCOV3uaM10f2tmP/P8An/4FL/MXs4djgv8AhSPw9/6F/wD8nbj/AOOUf8KR+Hv/AEL/AP5O3H/xyu9zRmj+1sx/5/z/APApf5h7OHY4L/hSPw9/6F//AMnbj/45R/wpH4e/9C//AOTtx/8AHK73NGaP7WzH/n/P/wACl/mHs4djgv8AhSPw9/6F/wD8nbj/AOOUf8KR+Hv/AEL/AP5O3H/xyu9zRmj+1sx/5/z/APApf5h7OHY4L/hSPw9/6F//AMnbj/45R/wpH4e/9C//AOTtx/8AHK73NGaP7WzH/n/P/wACl/mHs4djgv8AhSPw9/6F/wD8nbj/AOOUf8KR+Hv/AEL/AP5O3H/xyu9zRmj+1sx/5/z/APApf5h7OHY43UfhL4J1a4jm1DRfNkjiSFW+1zLhEGFHDjoKqf8ACkfh7/0L/wD5O3H/AMcrvc0ZqY5pj4LljXml/if+YckOxwX/AApH4e/9C/8A+Ttx/wDHKP8AhSPw9/6F/wD8nbj/AOOV3uaM1X9rZj/z/n/4FL/MPZw7HBf8KR+Hv/Qv/wDk7cf/AByj/hSPw9/6F/8A8nbj/wCOV3uaM0f2tmP/AD/n/wCBS/zD2cOxwX/Ckfh7/wBC/wD+Ttx/8co/4Uj8Pf8AoX//ACduP/jld7mjNH9rZj/z/n/4FL/MPZw7HBH4IfD0gg+H+D1/024/+OUwfAv4cggjw70/6frj/wCOV6BmjNZTzDGVHedWTfnJ/wCY+WK6Hn7fAr4cv97w7nnP/H9cf/HKUfAz4dKQR4e6dP8ATrj/AOOV3+aM1msXiU+ZVJX9WHKuxwX/AApH4e/9C/8A+Ttx/wDHK6Dwx4K8P+DRcDw3p/2P7Tjzf30km7HT77HH4Vu5ozWlXMMZWhyVaspLs5Nr8WChFapDt7etG9vWm5ozXEUO3t60b29abmjNADt7etJSZozQA9CAOaduX1qLNGaAJdy+teJfHDwB4l8YeItOufDmm/bIYbYpI3nxx7W3E4w7A17RmjNd+X4+rl+IWIpJNrvt+DREoKSsz5I/4Uj8Qv8AoX//ACdt/wD45Sf8KR+IX/Qv/wDk7b//AByvrjNGa+n/ANdcx/kh90v/AJIx+rQPkj/hSPxC/wChf/8AJ23/APjlKPgn8Qx00Aj/ALfbf/45X1tmjNJ8aZg94Q+6X/yQfV4HyUPgp8Q++gf+T1v/APHKafgl8Qif+Rf/APJ23/8AjlfW+aM0f655h/JD7pf/ACQfVoHyR/wpH4hf9C//AOTtv/8AHKP+FI/ELH/Iv/8Ak7b/APxyvrfNGaf+uuYfyQ+6X/yQfVoHyP8A8KR+IX/Qv/8Ak7b/APxyj/hSPxC/6F//AMnbf/45X1xmjNH+uuY/yQ+6X/yQfVoHyP8A8KR+IX/Qv/8Ak7b/APxyj/hSPxC/6F//AMnbf/45X1xmjNH+uuY/yQ+6X/yQfVoHzR4G+EvjbR/FcN5qWi+TbrDMpf7XC2C0bKOA5PUiufPwR+IWf+Rf/wDJ23/+OV9b5ozWUeMMfGq6qhC7SWz6X/veY/q8LWPkf/hSPxC/6F//AMnbf/45R/wpH4hf9C//AOTtv/8AHK+uM0ZrX/XXMf5IfdL/AOSF9WgfI/8AwpH4hf8AQv8A/k7b/wDxyj/hSPxC/wChf/8AJ23/APjlfXGaM0f665j/ACQ+6X/yQfVoHyP/AMKR+IX/AEL/AP5O2/8A8cp3/CkviFj/AJAGf+323/8AjlfW2aM0f665j/JD7pf/ACQ/q8e58kD4JfEL/oX/APydt/8A45TZfgl8RiBs0E5zyPt1v/8AHK+uc0ZrGrxfj6sHBxjr2T/+SBYeCPkJPgj8SOd/h/PHGb234P8A38pP+FJ/EoEbfDoxjGTe2/8A8cr6+zRmuN8S5hyqKaVvX/Mr2MbnyKnwS+IpJ3+HsDqB9tt+P/IlP/4Uj8Qv+hf/APJ23/8AjlfW+aM120uMMwpx5eWL9U//AJIl4eDZx3wj0HUvDHw7tdM122+y3kc0jNFvV8AnjlSR+tdtuX1qLNGa+WxGIliK0q095O+hulZWJdy+tNcgjimZozXOMWikzRmgBQcGnb/b9aZmjNADnO9GUjhgRXk/iP4InXQFh8RvaL5juwNpvyG7f6wV6tmjNaUKs8PXjiKbtOOz3/B6GU6UJ/ErnlOn/A230zRruxt9aJN0mxpJLTdj3xv/AK1zf/DMn/U2/wDlN/8Atte9ZozXs0+IMzpNuFXfV6R/yMaeDoU23Fb76v8AzPBf+GY/+pt/8pv/ANto/wCGY/8Aqbv/ACm//ba96zRmt/8AWjN/+f3/AJLH/wCRNfYU+x4L/wAMx/8AU3f+U3/7bR/wzH/1N3/lN/8Atte9ZozR/rRm/wDz+/8AJY//ACIewp9jxvXf2f8A+2l04f8ACS+T9hsktf8Ajw3b9pPzf6wY69Oayf8AhmP/AKm7/wApv/22ves0ZrOnxJmtKPJCrZf4Y/5DdGD6Hgv/AAzH/wBTd/5Tf/ttH/DMf/U3f+U3/wC2171mjNaf605v/wA/v/JY/wDyIvYU+x4L/wAMyf8AU3f+U3/7bWv4e+AC6HNcu/iIXS3EJiKmw27cnrnzDXseaM1nU4kzWpFwlV0f92P+RnUwlGrBwmtH6ni8X7PEdrqiXVl4meKNWBMLWW7d+Pmf0r2DTrU2FqYTJ5nOQQu3HFWM0Zrycdi62PqQq4mXNKCaT0Vk99rX26mtOjClfkW4/f7Ub/b9aZmjNc1zUfv9v1opmaKLgJRRRSAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorkZPiXoUXxITwSwuTqTKP3wRfIVyhcRlt2QxUZxigDrqKKKACisX/hKbL/hPP+ET8q4+3/2b/aXmbV8ryvN8vGc53Z7Yxjv2raoAKKKKACiiigAooooAKKKKACiisrTPEmm6xrOq6Xp8rSXGkukd38hCq7gkKCepwOccc0AatFFY3hTxRZeMNATV9Minit3lkiC3Cqr5Ryp4BIxketAGzRRRQAUVx3iT4n6L4d1ptGjtNU1rVkQSSWOj2huJYlPQtyAPXGc4I9RUnhf4k6J4p1WTSY4r/S9Wjj8xtO1S2NvPt9QDkH8DQB1tFYWj+LbDW/E+u6FaRXCXWhtCty8qqEcyqWXYQSTwpzkD8a3aACiiigAoorJ1/wAR2fh2K0N2k0899dJa2ttbqGkmkY9gSBgDLEkgAA0Aa1FcZ4g+JdnoXi0+G4tB1zV9QFoLxl0y2SULGW25OXB647dxVG4+MOm6Z5cniHw14n0Ozdwhvb/TgIUJOBuZHYj8qAPQaKbHIksayROro4DKynIYHoQadQAUUUUAFFcXq/xP0vT9cudI03Sta8QXtnj7XHo9n5wtyegZiVGfYEn9a2fC3i7SPGGlyX2jTOVhkMM8M0ZjlgkHVHU8gigDborzOz+N1jqVsLrSfBfjPULRmYR3NppIkikwSCVYPg8g11954v03S/Bq+JdbFxpVmYVlaK8iKTRluiFBk78nGPWgDdoritH+KWlanrdppV9pWtaHc3wP2I6tZeSt13wjAkZx2ODyPWtPxX440vwk1pBeRXd7f3zFbXT9Pg864mx1IXI4HqSBQB0VFc34V8daX4rubuzt4L3T9SssG50/UYPJnjB6NtyQQfUE9vUVe0TxJZ67dana26TQXWl3Jtrm3uFCupxlXGCQVYHKnuPQgigDWooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAzRmkooAXNGaSigBc0ZpKKAFzRmkooAXNGaSigBc0ZpKKAFzRmkooAXNGaSigBc0ZpKKAFzRmkooAXNGaSigBc0ZpKKAFzRmkooAXNGaSigBc0ZpKKAK2qalb6RpN3qV6+y2s4Xnlb0VQSf0FeAf8I7qeofBS88fhWTxFJqp8SQnOdiI2AnH8Ij3MB9OleifGW31jWfDNl4Y0K0upH1y9jt7q5hhZktbcMC7uwGFGdvUjI3U1fgF8NVUA+HCxAwSb64yf/IlAG9NqGoeMfhtHqfg3Uv7Nvr60W4tJjGkgR8Z2MGBGM5UnHFcHZfEvxJ41Gk+F/Dsb6T4lWQjX7h7dWXTkiba+0OCpLnoOcZx7iLwbeeIfhn4X8U+Hj4f1bVP7Ju2OiGKzkdLpJSSoDKMYU/Mx7biOvFRQ+C/E3w9GneN7M3mt63cSE+JbGAGRrpJWz+7Qd4zwMD8hkUAdymvaovxzXw412X0seGvtphaNMmf7T5e/cBn7vGM49q4jR/GPibxnJqMtj4+0zw/qcF1NDb+HprKIthGIUSNId5J7lenp2rrIbS8uP2gU1iOyul0+TwkIluZLd1QSG63eWSQMPt52nBx2rk9Y+yawt3bfEb4UX19rau6LeaJYF4rlcnYwnDBl4xnceOvsADf8WeKvF/hzwb4a8S6pGmnNb3kcfiGwiEcqGJ22lg3zEYOCNrfx4JOK1vHPiPU4fEHhbw74Zuxb3usXnmTzqiybLONd0pwwIBIIANUfBXgnUn+Cf8Awi3i9m8+6gmi8uSTzGtkcny13dyvB9BjHaue+CNpqms6peeIfES/v9ItI/D1rk54h5lbPfLbRn60AaVvqvjfxP8AEbxX4f0nXodI07SZ4St0bKOaVQ8QIjQHC4yHJZtx5AGKq+FtW+Ifi261rQW8RWemyeH7x7WbWIdPWSW8bJ24ib5EwBk9c7gBjBJ6PwVp97afEjx7c3VnPDb3d3atbyyRMqTAQ4JQkYYA8HFQfDTTb6w8UeO5b6yuLaO61tpbd5omQTJj7ykj5h7igDEtPH/iN/hH4yuLy6iGv+Gru4sft0MKhZWjIxJsIK55PGMcVB4h174h+H/AMXj+616zMSLbzy6CLBRH5UjKoUzff3/OMkYHXA9acegawPh78WLY6Tfeff61eS2kX2Z91yjMNrRjGXB7EZzXTfFHStQ1D9n2706wsLm6vmtbNRawws8pKyxFhsAzwASfTBoAyvFmu+P/AAf4btvG2oa9aTWglha70GOwURpHIwG1Jj85YZ6nAJ7djq+NvHGoDx1b+DtC1iw0B/shvL3Vr4I3kqThUjRyFZyeee30NHxn0rUNU+ClzY6ZYXN5dt9mxb28LSSHDqT8oBPGKoeOfC0lj8TYfF9x4Wj8WaRc2Qs7yyFqlxNbsrZWVEf73HGBz19RQBPoHjbUtJ+IWneGNY8S6d4qtNXikNpqFokccsMqDcUkWMlcEdDgc/jWH8NtM1+0+IvjmebxPJcLY3S/bENjEv25zC+1iQP3e04OF4OOa3fC0EepeOLW50D4aWPh3R7WN2l1DUdJS1u2kIwFhVcFRzyT1GenePQY9R0D4neNLO90TU3h1+VZ7O/gtTJbYWFsh3H3TngA96AGfCnUPHfjTw7pfiTV/E0cNn5rI1lHp0WbxEYqzNJgbSWBA2gABe5NN034m6rYfBH/AISXUcanrE17LZ2iMixiSQzskYIUAYAGffHXnNb3wS0690n4O6JZapZ3FldRef5kFzE0ciZuJCMqwBGQQfoa47TfA2t6x8AY9MhtZLPWrLU5b+1t7yMx73Sd2UENjAZScE8cjtzQB00um/FTSbeDU4fENlr9z5iG40U2MVvEVJAYRzZDfKCTluuOnY+jq2VBIKkjoe1eY6j468Xa9pkWleF/CWtaPrs7os15qVoq2lmAw3sHORJxkAAd89RivTI1ZIkWRzIyqAzkAbj64FAHk9xZeMPh3468Qa3onh1fE+k67MlxKIJxHc27AEbcEEsvJwAD26Vc0Pxr4O8beO9M/tfR9Q0bxXpySfYoNUjeCTDLhwuDh+M8MM9cDrUMereMvh74k1iPVNG1jxZoN9eNd2V3YMbie1DdYTGTnaMcYwO/cgQyjWviX478N6iPC1/oGk6DctdSXWrRiG4mbHEax5JAJAyen5DIAvhW4ktfib8XLiBtssSWbo2AcMIJSDzXW/C7W9Q8R/DLRtW1m4+0311EzTS7FTcQ7DooAHAHQVgeFdDvm+JXxNa8s7m2tdT+xpb3EkTKkw8mRWKMRhsEjOM4rI8Da54m8J+B4PBs3gvWJdcsRJBBcRxD7FJl2KyGcnCgbuep46c4AAaT8TNfHwP8OaozRaj4n1+9bT7V5owieYZ5FDsqADaqqOg9M96i+Il/8TPh94HudYTxZbasGaNJZDpsUL2ZLj5owAVdT9whgT82RVPSfBHiAfA7wk9nYSLr/hrU5L9LGdTE06rcykp8wGNykEE9R9ag+MfjfU/EfwtvLOz8Ja5pkDSw/bZ9UthAq/vF2ogzmQlwvIGMUAe95rze3nPiD9oi8jm+a28L6UqwxnotxcYYv9fL+WvR6810yM6L+0ZraTjbH4h0qG5gc9GeDEbJ9cc/SgDG1rXm8PftK3F2mj6pq5fwysXkaZAssi5uAdxBZfl4xnPUiovFvj25+IljqHgHw94W1K11e8jUTjWxFbC3i3AmXbvLNjHYeh56HpbfTL9f2kbrUzZXAsG8NCAXZibyjJ9oU7N+MbsDOM5xR8W/B17rWk23iHwwGj8TaC/2iyeMfNKo5aLHfI5A7nj+I0AQ+LfEd18OvC3hXwtpFza/2peLHp8N7ftthhjiRVknfkZwCOM9T3xg415421jwTeabeX/jrSvF+m3N1HbXsEUMEM9uH48yMRN8wB6gg/XnIl8aaVqfjnw/4T8Xw+GWubzSZHkvPD+pW+xpUcKsqBZByQUBXI5HI7AwrHZa1qmnWnhP4P2tg5nVr2913Qo7eK3jH3tmOXf0xx/QA3fG13fw+JGW1+LmleFI/KX/AIlt1aWsjg/38yOGwfpVXwre6jJ4nskuPjTo/iGMsd2mW9lZo9x8p4DI5YY68DtXc6l4R8N6zeG71jw/pV/clQpmurKOVyB0G5lJxUdj4L8LaZex3mm+GtHs7qI5jnt7CKN0OMcMFyOCaAIxb+Gvh/pOq6ofJ0u0uLh769mkkY75WwC3zEnJwMKO/QZNcB4Gstc1XR/HnjCy097SfxQCdJspSEfEcbpHI2ThSxYH8M9CDXO6lrt/4j+IU9/438EeML/RdNlK6Tplno7vA5BI86XcV3MeoGCBn659LtPE+p+NfDesweHtJ13wvqcEIFrPrWnrCGkbdjaDuDAbcNxxuFAHJ+Hrb4peBvh5ZRQ6R4dntdMt8yacJZTdOoyzYcHy95JJwAR7npSeLPEdn47m+F9xZbv7N1TVvtbRSdmhH3GA64bcPTjvV5fH3i3/AIRMaPc+Btdl8Um3+ztJ9nX7G8u3HmmYNtCnrj8OnNVLn4ZaroHwt8LW+hrHfa54YvU1HyQ2FuWLFpYgT/vYB4yF9TQBqfHxha/DMaqi/wCkaXqNtd27d1cSAcHtwxpNJ/0/9pXX5p/mOm6LBbwA87RIwckenOfzqh4hvdX+Kcmk6BaeF9Z0fTkvYrrVLrVrXyAqRnPlx5PzknuOBx740/E1nqvhT4oReNdM0m71jTrzT/sGpW1inmTxFW3JKqdW/ukD39qAGeI2Fh+0X4NngXD6lp15aTkcbkjUyLn1+an+IJz4e+Pnhm8hysXiOyn0+6UHAZocSRsf9rLbfpTdAttV8Y/FOPxff6PeaNpWl2L2mnw6hH5c88jn55CmcquOAD7H1pPFaHW/jx4M02D5ho9tdandgfwqwEcf47x+tAHpmaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmjNJRQAuaM0lFAC5ozSUUALmikooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAxPFWkazrOkpbeHvEL6Bc+YC9ylqk5ePBBTaxGDkg7hyMe9SeFvDdl4R8M2mi6aXaG2U5kkOXlYkszsfUsSa16KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAwPGPhO38Y6GtjPdT2U0E6XNrd25w8Ey52sM9eCQR6E1zp+G+saxeWJ8ceMZtesbGZbiOxisI7RJJF+6ZCpJfHXHAr0GigArB8TeF11+fS722uvsOpaTdC4tbry9+AeJI2XIyrrkHkdj2reooAKKKKACiiigAooooAKKKKACiiigAooooAKwNA8LLo+tazrF1dfbdR1acM8xj2CKFRiOFRk8KOpzyST7Vv0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/Z)

Figure 4.4: Axisymmetric taylor bubble rise at very high Re

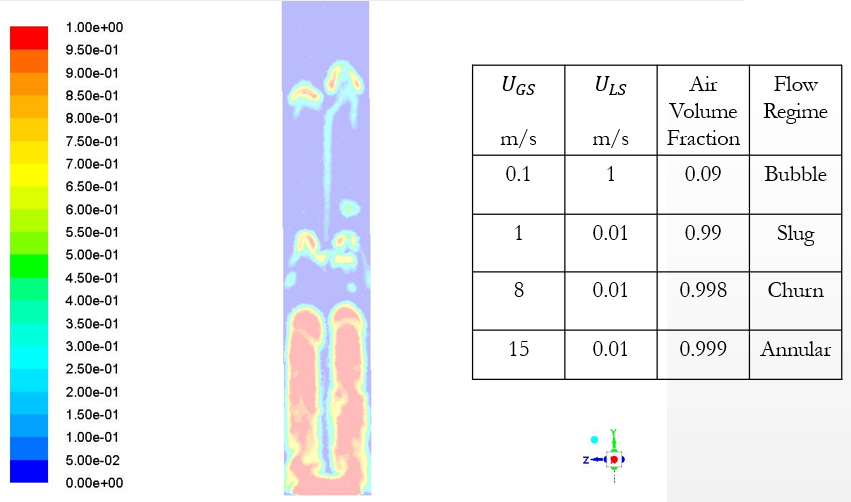


Figure 4.5: 3D simulation of different flow regime at vertical cross-section

The table shown in Figure 4.5 is formed by taking four different flow combinations for 4 flow regimes. Boundary conditions were changed in the middle of simulation to optimize resources. As we notice, the bubble flow, slug flow and annular flow regime observed according to the data from Taitel-Dukler[4].

![A close up of a logo

Description generated with high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhvc3NhaW4sIE5hem11bAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADMTEAAJKSAAIAAAADMTEAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMTc6MTI6MDUgMDA6Mjc6NDcAMjAxNzoxMjowNSAwMDoyNzo0NwAAAEgAbwBzAHMAYQBpAG4ALAAgAE4AYQB6AG0AdQBsAAAA/+ELImh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTctMTItMDVUMDA6Mjc6NDcuMTEzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkhvc3NhaW4sIE5hem11bDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAI7AnUDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6RooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACuW8ceMG8H2Md19nWdGDFgTgjFdTXmHxu/wCRcj/3H/kK7cBRjXxMKc9mzKtJwg2jnf8Aho+1/wCgUfz/APr0f8NH2v8A0Cm/P/69eC8Yor9G/wBU8J3Z5f1yZ71/w0fa/wDQKb8//r0f8NH2v/QKb8//AK9eC0Uf6p4T+Zh9cme9f8NH2v8A0Cm/P/69H/DR9p/0Cm/P/wCvXgtFH+qeE/mYfXJn1D4M+LP/AAmGoRQW9gsSNIEZmJyOK6Lx14zi8FabBeXCIySyFDvJGOK8V+CH/IZh/wCvgfyrt/2hRnwfZf8AXwf5CvlMRldKnmkMJHZnXCtJ0XNlf/hoHS/7kH/fRo/4aC0v+5b/APfRr52wMdKMD0r6b/VKh/Mcn12R9E/8NA6X/ct/++jR/wANA6X/AHLf/vo187YHpRgelP8A1SofzB9dmfRP/DQOl/3Lf/vo0f8ADQWl/wBy3/76NfO2B6UYHpS/1Sw/8wfXZn1N4c+Ki+JLqFLK2haJ5RGzhjxk4rf8W+LX8MyRfuY3jdC7M7EbcHFeJ/B//WW//X0v869B+MozYgH/AJ9m/nXy2Iy6lSx8cMtjqjWk6Tmxn/C7LH+9Zf8AfxqP+F2WP96z/wC/jV8zmJMngdaTy0/u19J/qnF7SX4nP9cZ9M/8Lssf71n/AN/Go/4XZY/3rP8A7+NXzN5cf92jy4/7op/6px/mX4/5i+uS8z6Z/wCF2WP96z/7+NR/wuyx/vWf/fxq+ZvLj/u0eXH/AHRR/qnH+Zfj/mH1yXmfU+l/FQatOiWcNtKpcKxRycZOK6zxbqFzpmgtcWT+XKJFGcZ4NfO3wnVRM2Bj9+v8xX0B48/5Fd/+uqfzr5XH4GGExkaKXU66VVzpyZ5Lc/G+a1unt5LubehwcRLUrfGbUEVWZ7kKwypMK815fFpv9p+MZIT93zcnius8S7I79LWLmOFAq8VjxNOjkypRppSlPXVbI7+H8I83xzwzbSSu3+R0P/C6r3/nrcf9+lpf+F1Xv/PW4/79LXCcUf56V8Z/rBU/59x+4/Q/9S8P/wA/ZHd/8LqvP+etx/36Wnf8LmvxA02+58tereUvFcFj/OK3fD6RXlnd2E+Cjpu6dxXRhc99pXhCrCKi2k3Y8fOuGI4DAVMTRm5OKvZ9up0GnfGm41O+jtLe7l8xzgbolxXodl4g1KXwTeX8k+biOUKr7RwOO34183aJAtt43iiUYCyYFe/6f/yTjUP+u4/9lr9BzXL6OEcFDXms9vM/PcPXdVc3kcTrvxh8RaRqJto184AA7tgqjB8bvFFzII4rUsx7bRXL+LRnX2HqoroPC+iQ6fYnU75cn+AHvWuYYfLsvwH1uv20Wmr7HD9bxVSssPQXNKTsjduPiZ42tYUkmswA/QbRmq3/AAtvxh/z5/8AjorN1C+fULkyvwP4V9Kq9a/If9YMU9VGP3H67hOFqPsI/WJPn62elzdX4s+MGYKLTk8fdFGpfFjxjpWPtVmQG6EKMVhqcHIrdhkGq+HruC4AkmRPkLelehleeupjIU8VFOEnbRJWv1PF4jyN4HBvE4Rt8urT7eRQi+OXiSSZEMGNzAZ2ivVdE8Rale+D9Svp58zwqDGdo+XIzXzYkZiv1RhgiQD9a+gPDX/JPtY/3F/9BFfp2bZZh8LCDp9Wu3c+FwmKnWbbPOdR+MXjK11GeGF4GRGwpIGT+lW9F+JXxA1uYpbG3UDq5HH8q4a/ga58RTQoCS0uMCu9WBfD2iRwW5xPMPn9RXBxI8BlGBVSMf3kvhX6hgHjMfjIYSj1er7IJviP4+hmeNprQlTjIH/1qZ/wsvx5/wA9bX8v/rVkEluep70V+U/23i/L7kfsceG8CopNNv1OisPHnj+/kZI7izVgMgHv+lZOpfFjx9plwYbkW6ke3X9KrRyNFIHRirDuKva7Zx+INFFxEp+0wDDY719Hw5m1PEYxYfHLSWidloz4jirKquWU1i8K/wB2viXbzJfDvxZ8Xapqgt7uWFIyM5VRn+Vdp8RPH+reFNI0OexXzZLyItKdo6gD/GvHvCSFNfCNwQDXffGb/kX/AAz/ANcW/ktfo+IyvDLH0qEVZSv+TPkKeKqPDyqN6oxV+OfiZmCrakknAworWb4neN0tFuGsCsbdCVFcn4J0RL+6a5uceVFzya29W1N72QInyxR8KtfHcV43D5VXWFwivPdt2sl/me5w3g8Tm+IblpSju9dX2Ra/4W34w/59P/HRR/wtvxh/z6f+OisPPPJpe3Wvjf8AWDFfyx+4/RP9V8F3l950Vz8UPG1pYfbJbH9yehCisj/heniQ/wDLuf8AvkVoabKNT099LuGGCp2GvOtWsfsGpSW/PyHqa/ReFJYXOqMlWVqkd7WsflmdRxOV4+WHl8O8Xrt/mfTPw/1298QaPLdag+59y4GANuRXWVwfwm/5FuX/AHl/9BrvK87GwVPEThHZM6qEnKmmwooorkNgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK8x+Nv/ACLif7j/AMhXp1eY/G3/AJFtP9x/5CvTyn/fafqYYj+Ez5ioooNfuCPngoooqgCiiigD1r4H/wDIYi/6+B/Ku2/aE/5E+y/67n+Qrifgf/yF4/8Ar4H8q7f9oT/kTrP/AK7n+Qr83xf/ACUFP1/zPTp/7rI+bqKSlr9HPMCiiimAUDrRQOtJgesfB/79v/19L/OvQvjL/wAeI/69m/nXn/wf+9b/APX0v/oVeg/GT/jwH/Xs386/M8d/yOo+p6lP/d2fMh6n60UHqfrRX6YtjywooopgFFFFAHpPwo/1zf8AXdf5ivfvHf8AyK7/APXVK8C+E4/fN/13X+Yr37x1/wAiw/8A11SvyvPv+RnH1/yPWw38GR88eEk/4rm5Zx8iuSxPapNdmE+tXDqcruwKk8IhX8SaqCuSAxz+NZ87b7h29TXxnHVRzzKnD+WC/E+08O6H+0Yqv6L9SOiiivgz9fCtjwuR/b0KscK3BrHq7o7hNWgLHA3YzQ3ZXPPzKmquCq031i/yKr262/xKURnKmXIr2zT/APknOof9dx/7LXj17aPa/Ea238hyCK9i0/8A5J1qH/Xcf+y1+55lU9rh8NPuon835dpTs+iZ41r0Rm8XIg77a6jWpfLtbW0HWNPmx3rJkthc+O0UnGFBFX9cd21Eq4AKDHFfI8eYq9DDYdPpc9/guhGtnc6j+xH8zOooor8rP28Ku6RKseoIJCQjcHB61Sp0Z2yqwOCDVJtO6ObF0Y16E6UtpJoxvEll9k8SfKu1GcEfnXtHhof8W/1f/cX+VeY+L7dCbK6zlmI5/KvTvDf/ACT/AFf/AHF/lX73XxX1vK8NW72/Q/nPLYunOdN7xbX3Hk+iwb/Gk0jKCkb5JI6Vq6zdfa9UlcEFQcDHpUXhhFbxJqIb/a/lUEpzM/1r4PjzEe1x9Ol/LFfifdcAYe+IxOIa7JDaKKK/Pz9bCtfw/KRPLBkBJEOc1kVb0qVYtSiaQfLu5q6c3Tmpro0zys4wqxmAq0GviizJ0eEweMpkxgZOM12PxmGdA8MD/pi38lrGntWh8dFyAEkXK49Oa6H4sRibTvCkbdGjI/Ra/oiniVWxeFr943/8lZ/PVC8MDPm3X6M5/T4VsPCqcFJpTnjuKo1sa1iCztLUDGxM1j1+F53i3jMxrVr7yf3LQ/aOC8L9XyalJ7zvJ/MKKKK8g+yJrSYwXccgONrCqvj+zC3kV4MATKDgVIOCPrV3xVEbvwxBczABkwq/QV9pwRifq+cwV9JJr/I/MPEKgvq1HELeMrfJnqXwm/5FuT/eX/0Gu8rhPhP/AMi3J/vL/wCg13dfT5j/AL3U9T5jD/wohRRRXAbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAV5l8bP+RbT/AHH/AJCvTa8y+Nn/ACLaf7j/AMq9PKf9+p+phiP4TPmGg0UV+4o+eCiiimAUUUUAet/A/wD5C0X/AF8D+Rrtv2hP+ROs/wDruf5CuJ+B3/IVj/6+B/I1237Qn/InWf8A13P8hX5vi/8AkoKfr/menT/3WR82ilpBS1+jnmBRRRTAKO9FFID1r4Pfet/+vpf/AEKvQvjH/wAeH/bs3/oVeffB3rB/19L/ADr0H4xj/iX/APbs386/Msd/yOo+p6lP/d2fMZ60UHqaK/TUeWFFFFMAooooA9K+E/8Arm/67r/MV7946/5Fh/8ArqleBfCYZmb/AK7r/MV794558Mv/ANdUr8rz7/kZx9f8j1sN/BkeB+ECI9e1eRl4ww3Vkv8A6xvqa29D2QRarOqkuHIJrDJyx+tfn3GFTnzaXlGK/A/QvDrWhiZ/3/0Eooor5E/UQq1pnGqWxIyPMH86q1NZHF9D7OOlKXwsyrK9OS8mamupn4kWbg8ELgfgK9XsB/xbq/8A+u4/9lry/VoT/wAJhp0x53Y+vSvUbAf8W8vv+uw/pX7J7X2mW4SX92J/M2C/5eLs5L8WeYJ8vj5SRn5RjHanak27UZjnPzdat2cAk8YztwSsXGR7VnXJzdSZ5+Y9K+K43qc2Lox7QR9rwHBPE4mp10RHRRRXwR+rhQPvCigcUxPYveMLfGk6ZIpGPlyPyr0Tw2P+KA1b/cX+Veda/E1zoNnO78xuFCgdq9H8Of8AIg6t/uL/AOg1+wZXU58iw/k/1P57lT9nmWJh2lI870W1+bVbgAZDHms8n5jWzo5IsdW7DdwfXpWLXxPFsnLNp+SS/A++8P4/7HWn3m/wFooor5Q/Rwp0R/fJ9abToziZD70yJ/Czd1KNI/EdoFHOzr+BrT+KIH2Twlu4Gw8/gtZuoKkniG0lDDdswVz7Gt34g2y3S+Eo36eW38lr9uyufJh8LJu9oP8A9JZ/NU9MPiF/ef8A6Ucv4hYPeRbRgCMfyFZVX9aJ/tJkP8AAqhX4pUfNNvzP6Cyan7LLqMO0V+QUUUVmesIa0Lu2a68KTeYSVTlfaqFasc2PCd4p59P1r28gqOnmlCS/mR8RxzTc8lqNdGn+J6X8KOPDcv8AvL/Ku7rhfhV/yLsv++v8q7qv0DMP96n6nwGG/gx9AooorhNwooooAKK8p8T+K9S0/wATXVtHqUsKCUrGgPHSsWX4gX8CFpdbkUKdp5716McBNxT5kc7xCTtY9worwf8A4WPqo1EQHVZREU3CTcOasTeP7+3ZhLrcilTggmmsvk/tIX1hdj3CivDofiDfTyrHFrcjOwyBuFPh8ealcXDQQ6zK0i9VzT/s6b2kg+sLse3UV4BqXxL1uy1eGxTUZmZxuck/dH+RVz/hY135Pm/25JsBxnP/ANal/Z8rtcyD6wux7nRXh8nj+/it0mfW5BG/3Tkc1Qn+J2qx6gbSPVZSwQMCTweaHgJL7SBYhPoe/wBFeHjx/qIljhk1qQTOAQuRSL8Qb57oW663IZScbc0f2fL+ZB9YXY9xorxS68b6pZRh7rWJo1JwMmsvUvibrFrdWkFrqUszXLYHI6cf40Sy+Ud5IFiIvoe/0V4jc+O9TsUU3esSx7vU1C3xA1VJzv1iQQ7N2/cKHl81pzIPrC7HulFcP8ONfuNehvJJ7x7pE27C3brXcVxVabpTcGbxlzK4V5l8bP8AkWl/3H/lXpteZ/Gv/kWV/wBx/wCVd2U/79T9TLEfwmfMBooor9xWx88FFFFMAooooA9c+B3/ACFI/wDr4H8q7X9oT/kTrP8A67n+Qri/gb/yFE/6+B/Ku0/aE/5E6z/67n+Qr82xf/JQU/X/ADPTp/7rI+baWiiv0g8wKKKKYBR3oo70gPW/g7/yw/6+l/nXoXxi/wCQf/27N/OvPvg7/wAsP+vpf516D8Yv+Qd/27N/OvzLH/8AI6j6nq0/93Z8xHqaKD1P1or9NR5YUUUUxBRRRQB6Z8Jf9Y//AF3X+Yr33xx/yLL/APXVa8C+Ev8ArX/67r/MV7943/5Fp/8ArotflWff8jOPr/kethv4Mjw7RozJo+tnAO1z0rm8YNdHochTRvEGDj5zXOV+bcUNvN6vy/I/TPD6HLgKr7zf6BRRRXzR+jhUtsdt1Gf9oVFSj71D1RM1eLR0esMo8VaOqtuOATXp9h/yT2+/67D+leZ6rbhNb0ORV4ZRk16bYf8AJPb7/rsP6V+t0GnleFt2X5n800IKFatHtKX5nA2IA8UXbEkMIuv4GsaX/j4kP+0f51u6YpPiq7w3Hk8qfoaw5/8Aj4k/3z/OvieMpJ5hFdoI+34BX+8v+8vyGUUUV8Wfp4Ud6KSmBr6shXwnbnIIMg6V33hv/kQdV/3F/wDQa4G8U/8ACHxs3I83geld/wCHP+RC1X/cX+VfrGSu+R0V/e/U/AcXHkzjFr+8/wAjzuxMZtNRDMysJO3Q9Kzu1adrblNP1CVujS4H6VmV8XxPNTzarbpb8j9B4FhyZbPzmwooor5o+9CnRf65PrTaVMiRcetMmV+V2NrUcf8ACXW4HQRf411fjRQ0nhPJxiJsfktcdKXfxNatJ1Mff8a6/wAcAh/Cbf3YmP6LX7PgmlgsNb+R/wDpLP5sxEX7DEJ/zP8A9KOJ1r/kLzZ9ao1c1d/N1WVsEZPeqdfjL3P6JwKthaa/ur8goooqTsCtKyt/tWk3cW7Hy8Vm1r6Mh+yXT54CHj8K7cvm4YulJP7S/M+V4uV8lrryPTfhcnl6DMh/hdR+ldvXF/DPnRbgj/noP5V2lfpmOd8TN+Z+Y4V3oRfkFFFFcZ0hRRRQB8//ABWBi1a+vEHzW9xu/MAVw9tHbia2udVAEFwjyfP0ycEV6n4vijm8TajHKoZTLyCPpWHLYWs8KxSwIyL91cdK+lhScoRd+iPMcrNo83AKjeQ3lIWIJ7Luq1O1vqWtMV/eRNL17Hiu+NhashQwJtxtxjtTY9Ns4cCO3RccjAp/V3tcPaHBNaCCDzLRNs/2h1UjtzU+hLO+pWjNcQh1c71RRuPPeu5Fnbg8RL13dO9Ni0+0gmM0UCLIerAU/q7TvcPaKxz2vwRtrJZo1LfZz82PY1lXsMVtpWnW8KRReZDuMkgGM4H613b20UjbpEDNjGSO1Rzafazxok0COqfdBHSqnRbvYSqbHn2kPa/6J/ajbrdQ4y3TO6repfY/tzNAqhWiXy8jk/NXZtplk8Qja2jKA5AxTn060dlLwISowvHSpVGVrD51c4Vfsos5xN/x/GVfKz97GeMUlvapHax3JTFx9qXL9+hru2060eZZWt0Mi9DjpT/sdvtx5S43bunej2Db1YnU7HPa8bcazaNqOPsvln733d2DWZpcKSajZsYw0fnOYiw/hyMV2lxZwXaBbmJZAOxFC2kCbNkSrs+7gdKuVJuV2Ln0scn4tbzNSSAmKMeUTvkA9egrEtlEthGrkuDCoJPf5q9FuLC2u2VrmFZCvQsOlIun2qgBYEAAx0qZUXKblcpTsrHefCSFILC6SJQq7I+APrXo1cF8M12rfgdPkx+td7XhYxWrtf1sdtH4EFeafGv/AJFkf7j/AMq9LrzT41f8iyP9x/5V0ZT/AL7T9RYj+Ez5fNFIaWv3FbHz4UUUUxBRRRQB678Df+Qon/XwP5V2n7Qn/Im2f/Xc/wAhXGfA3/kJL/18D+RrtP2hP+RNtP8Aruf5CvzbF/8AJQ0/U9On/usj5topO1LX6QeYFFFFMAoopKQHr3wc6Qf9fS/zr0H4w/8AINP/AF7N/OvPvg392H/r6X+dehfGD/kGH/r2b+dfmOP/AOR1H1PVp/7uz5gPf60UN3or9OWx5bCiiimIKKKKAPTfhJ/rJP8Aruv8xXvvjf8A5Ft/+uq14H8I/wDWSf8AXZf5ivffG3/Itv8A9dFr8qz7/kZr1/yPXw38Fnh2kxlND14nu5rmq6ewMg0PWd6YUscH1rmK/MuJZc2bVX6fkj9N8Pv+RbUf99hRRRXzx+ihSjqKSlA+YUxS2Ov1eEHVNCfd8wUfL2r0WwH/ABb6+/67D+ledasVGsaEpPOwYr0ax/5J/ff9dh/Sv1PBa5Thfl+Z/NcE/rWI/wAUvzOCspmi8T3e1M5hAz+BrEmOZ3z/AHj/ADrUhMo8U3QgPzeVwD9KypM+c+7ruOa+N4wX/ChF/wBxH2/ASajif8S/IbRRRXxx+mBRRRTEzU1Bs+DoQCOJuR+NeheHB/xQWqf7i/yFee36qPCEJA5M39a9D8Of8iHqn+4v8hX6pkbTyWkv77/NH4RmCX9tYr1/Q4e4ymiTleFMuD+lYFdFdIx8Pz44/fd/wrnO9fDZ/b+063r+iPvuBlbKV5yl+YtFFFeGfdBSocOp96ShfvD60+gnsdLPGk+pWV1/GUx7d63vHYYf8IoygnbExP5LWNKgSSxweqZ/nXU+KlVrbw9v6fZ2/ktfq2ArcmVUJvpCX/pLP5uxTdsSn/Pb/wAmR5rqcpm1GRyMZNVqmvRsvJQP7xqGvynRq5/ROFVqEF5L8gooopHSFbWgN/o96v8A0yP8qxa2tBQ/Z71x08o/yNdmBV8VST/mX5nznFH/ACJsR/hZ6d8Nf+QNcf8AXQfyrs64z4a/8ga4/wCug/lXZ1+mY3/eJn5VhP4EPQKKKK5DpCiiigDxzxWyr4pv9zBf3p6nHasjzY/+eif99Cs/4pwm58emAyyIjSsSI3K54rmv7Dh/5+Lr/v8AGunFZ/RwMlRnFt2X5HdgeH8Rj6brQkkrvc7XzY/+eif99ClDKw+Ugj2Oa4K80eOKzldLi6DKuR++NdX4dtFttEg2tI5kXcxds813ZZm1PMXL2cbWOLNMoq5a4qq079iHVdfTT9StrNYyzzOATjgA1d1O/Gnae9yV3EDhfU1m+JYkE1g4UbjOvP4ipPExD6R8pDGNgzAHoK9Pmkrnk2TsVY/Es0KTpfweXOgDIufvZOBRH4lmhSdNQt/LmRQyKD97NY+ryLqGqSXVp+8hhSPc6j/ao1eRdR1Q3NofMhhjUuy/SsPaS1L5UdDpetzTXTwahEIHCb1JPBX/ACa1La9trvP2aZZNvXB6Vw2u3LXsjzaad4itgrlfw4qxoNtcz358iSC3zCOICDz6nFVGtK/KJwR1smoQpa3FwDuEGd2Pasa38SzJN/xMLfyo5ELxHPUZrOg0PVLbTdSa4u2dWLkR7fv9eetQ6nKuprZRWR8xoYPnA/hx2olUkCijXtvEswmBvrfy4pULxNnrjPH6VJp2v3FxfRx3UHlxXAJibPWsS+kTUodPhtDveGJi4HVeDVu0uI7u60eGA7nhX94B/DjFJVJX3G4o7CilIoxXYYnd/DX/AJf/APgH9a7yuE+Gv/L/AP8AAP613dfN43/eJf10PSofw0FeafGr/kWR/uP/ACr0uvNfjT/yK4/3H/lW2Vf77T9RYj+Ez5eNFBor9yWx8+FFFFMQUUUUAevfAz/kJL/18D+Vdp+0IM+DbT/ruf5CuM+Bn/IRX/r4H8q7P9oP/kTbT/ruf5CvzbF/8lDT9T1Kf+6s+baKKK/SEeWFFFFMAooopAevfBz7sP8A19L/ADr0H4wf8gw/9ezfzrz/AODf+rh/6+l/nXoPxf8A+QY3/Xs386/Mcf8A8jqPqerT/wB3Z8vnvRQe/wBaK/TlseWwooopiCiiigD0/wCEX35P+uy/zFe+eNefDb/9dFrwT4RcvJ/12X+Yr3zxp/yLj/8AXRa/Kc+/5Ga9f8j18N/BZ4bbNINF1bzm2qXIQevNc1XTSOr6DfAKAyzHJP41zNflufvmzSs/Nfkj9R4Ahy5U33kwooorxD9BCnIR5g3dM802imJ6qx2urCL+1tFO3LbBtPpXoViP+KAvv+uw/pXmlzI8+paMw5VQAa9Msv8AkQb7/rsP6V+oYCXNlOG/rqfzao8uLxEf70jgBEiaveTliHEYAx9DWE5zI31rqViVpr9iAMRjJ79DXLN9846Zr4fiqfNmb8oxPueAkvYV5f3xKKKK+XP0gKTvS0d6aEaUu658NiLoI5Mg4616N4dGPAuqf7i/yrgtPbdok4A+4wya7/QP+RI1X/dX+VfpfD9SUspjF9J/qj8MzWPLnmJXo/wOG1CTzNDkKSblExBHvxXO10N/GBocnk/dEx3cd+K57vXxuef8jGt6/ofoHBXL/ZEbPrL8xaKKK8U+0CheoxRSZwaYnqdU4YSaf3zHyfzrq/FILReHlUcm3fn8Frk1J26bjp5fJ/Ouv8THEXh8+lu/8lr9Ow11k1L/AAS/Jn86YyP7zEr/AKef+3I8uvN32yXd13GoaluW3XUp/wBs/wA6ir8wWx/Q9FWpxXkgooooNQra8PhXgvVY4zEf5GsQ1t+Hl/d3jsPl8k/yrqwn+8U/8S/M+d4mSeUYhN291np/w3ULo9wFOQJBz+FdlXHfDf8A5A9xj/noP5V2Nfp2M/3iR+U4T+BD0CiiiuQ6QooooA+eviX/AMlG/wC2jf8AoNY/bjrWx8S/+Sij/ro3/oNY9fK8Qf75/wBur8j9G4WX+wfNlfUD/wAS6cH+5XR6MP8AiR2n/XOub1H/AJB83+5XS6KP+JHaf9c693hH/l6/Q8LjP4qXzJ5raKcr5yBthyuexpDaQszkoCZBhs96nxRivu9D8/KtvptrawtFBCqo/wB4Y60lvptpaxPHBCqo/wB4Y61bxRilZDuypBplpbRvHDAiq5+YY60tpp1rYljawrGW6kVaxRiiyC7GlQRg8g9ar2+m2lrI7wQKrSfeIHWrWKMU3ZiKkGm2ltK8kEKo0n3iB1pYNNtbWd5oIVR3+8RVrFGKVkO7ExRilxRiquI7r4b/APL/AP8AAP613VcL8N/+X/8A4B/Wu6r5zG/x5f10PRo/w0Fea/Gn/kV/+AP/ACr0qvNvjR/yK/8AwB/5VtlX++0/UWI/hM+XTRQaK/clsfPhRRRTEFFFFAHr/wADP+Qiv/XwP5V2f7Qf/Im2n/Xc/wAhXG/Av/kID/r4H8q7L9oP/kTLT/ruf5CvzbF/8lDT9T1Kf+6s+baKKK/SEeWFFFFMAoooFID2D4N/6uH/AK+l/nXoPxf/AOQW3/Xs3868++DQ/dQ/9fS/zr0H4vf8gtv+vZv51+YY/wD5HS9T1af+7s+Xj1P1ooPU/Wiv09bHlBRRRTAKKKKAPUPhD96T/rsv8xXvnjT/AJFx/wDroteCfCH70n/XZf5ivfPGX/Iuv/10WvyjPv8AkaL1/wAj18N/BZ4dFIH0PU0ZcFZD2965iuukXHh7UXIAJkIz61yNflmetPNKzXdfkj9R4AT/ALKb/vMKKKK8Y/QQoooFMT2OvldZLrR/I+5wGPvXpNl/yIV9/wBdh/SvODsVtGwSWY9Ow616RZf8iFff9dR/Sv0rK3fKsP8A19o/nKrHlx2JX96RyMimO2vmwBmPg+vBrj66O8LPp9xJESAGKtk9a5uvhuI2nmU7dEkfdcBK+X1J95sWiiivnj9CCkNLSHrTW4jZ02VDpFzAV5Yg5/OvQ/D4x4I1Qf7K/wAq820qISxzDOCBmvSPDr+Z4H1RhxwB+lfonDrTy5pb8/8Akfi2f8sc9rRW7in+BxWpqF0F9nH73nHfpXM4rob93fRZQQTiY8/lXPV8rn0eXMqy8/0R9pwQ28ojfvL8xaKKK8Q+2CgdaKBwwpiex1IAJ03Hy/u+n511vicZj8P5OALd8j8FrlOHbTXPP7vg/nXWeJ/9XoH/AF7v/Ja/T8Lb+x6X+CX5M/nfF/xsR/18/wDbkeWXOPtUuOm8/wA6jqS5ObqU/wC2f51HX5etj+haXwL0Ciiig0Ctzw38wukJ+XyjkevFYdbPh/IF2wbG2In9K6sIr4imv7y/M+f4k/5FGI/ws9T+HihdKuQOnmD+VdfXH/Dpi2jzsTklx/Kuwr9Nxn8eR+TYT/d4egUUUVynUFFFFAHz18TP+SiD/ro3/oNY9bfxJjaT4jBUUsfMbgf7tZX2O4/55N+VfKcQtLGav7K/I/ROF5xWBs31ZQ1H/kHzf7ldLoo/4kdp/wBcxWBqVpcLps7GJsBPStnwzeRXuhW5h3YRdpyO9e7wg01V+R4fGLUpUmn3NTFGK4/VtYu4tXm2XAiFuyhIT/y0z/8Aqrb1jUJrXw+bqFcSMo6/w5719wqid/I+C5WauKMVxkGuXkNlexpOLkR7ds47ZIFMi168htLi3SdbhtyKk/YFs/yrP28SuRnbYoxXN6fq76ZNPbatciURoJA/fkDj9a19O1iz1XcLRySvUHrWkakZEuLRdxRjPSuc1m8vp9Te0sJfKFvH5rH+9xnFUjq9/qxVLOQQtDGXcj+Ig4xUuqkx8tzsMUYrk9R8R3q6LZz20GWmKiSQdF5xXVwHfbxsepUE1cZqTshONkLijFOxRirJO4+HH/L9/wAA/rXc1w/w5H/H9/wD+tdxXzmN/jy/roejR/hoK82+NH/Ir/8AAH/lXpNeb/Gf/kVj/uP/ACrfKv8AfafqLEfwmfLhooNFfuS2PnwooopiCiiigD2D4F/8f4/6+B/Kuy/aD/5Ey1/67n+QrjvgX/x/D/r4H8q7H9oP/kTLX/ruf5CvzbFf8lDD1PUp/wC7M+baKKK/SDywooopgFJS0lID2P4Nf6qL/r6X+degfF7/AJBL/wDXs3868/8Agz/qYf8Ar6H869B+Lv8AyCX/AOvZv51+X4//AJHS9T1af+7s+XD940UH7xor9QPKCilVHb7qk/QUpjdR8yMPwpXQrobRRRTGeo/CD70v/XZf5ivfPGP/ACLz/wDXRa8E+D/3pP8Arsv8xXvnjH/kXn/66LX5Tn3/ACM16/5Hr4f+Czw+6mI8OXQPecjPr1rlq6+9CjwrchiCPPO3681yFfled/8AIyrev6H6vwHb+yFb+aX5hRRRXjn3YUUUUwOxV1ddGwM84z+dek2X/Ih33/XUf0rzO1UJb6OD94yf416bZf8AIiXv/XUf0r9JyxWyvD2/r3j+dsWv+FHFf4mcFP8ALpd0hOG3k7c9q5yt+9z9luSOu7kmsCvheIYqOZ1WutvyPt+Amnlkkv55BRRRXgH6AFJS0U0I1dFby4rhtu47cV6J4bUL4F1QA54615xphK2823rXpXh9QvgjUwvTaP5V+g8ORSwEn3mv0PxfiH3s/qt9IL9ThdRdf7DlCjafOORnr0rna6O+VP7CmZh8wmOD+Vc5Xy2eO+ZVvX9D7PgiKWURt3l+YUUUV4x9sFAGSKKBwRTEzrQnltpy5z+7/wAa6rxOSE8PgDrbP/Ja5VGZ204v18v/ABrq/E6lodBxx/o78/gtfpmH0yal/gl+TP53xN3XxH/Xxf8ApSPK7nP2qX/fP86jqS5JN1Ln++f51HX5l0P6Fp/AvQKKKKDQK2fDxUi7VlJDREcfSsatXQ5fLNzyApjOffiunC3+sU7fzL8zwOI9cpxC/us9X+HahNInCjADjj8K6+uR+HhB0ecr03jr9K66v07F/wAeR+S4T/d4egUUUVynUFFFFAHiniZQ3xXGf7zf+gmtnYn90flWR4l/5KuP95v/AEE1setfnXFzazFW/lifRZS39X+bM/WkX+w7v5R/qz2rD0UAaLa4AHyf1re1v/kBXn/XM1haN/yBbX/rn/WvpOAW3GtfyPNz96wON1i03aneie1eS6kYG3kA4Xrj+lbGsmefw6LdVZ3jVfOUD7wxzXTGNGYMVBI6EjpRsXJ+Uc9T61+keztfzPnOc87azd47t9LtpI7Jtu+PH3uRnFSw2qeXePZ2LixKrmPoc85IrvljRV2qoA9AKBGirtCgL6Co9jruP2h5rNo09xDcXdkkwjTGPM+8eK19F0+6u7qaaK5kjbYF3suK7QIqrtCgL6ChUVBhVAHoKaoJNMTqHHXaXOjalNJOr3X2iDYHUd8f/XqrbQz6GzSSwO/2mE42joSeld2yK+Nyg46ZoZEYDcoOOmRTdLUFM5S5sJovBVvAYyZQyEr6fMK6e3GLaIHqFFSFQwwRkUuK0jFRJbuJRS0VZJ2/w6/5fv8AgH9a7iuI+HX/AC/f8A/rXb187jP48v66Ho0f4aCvN/jP/wAisf8Acf8AlXpFecfGf/kVT/uP/Kt8q/32n6hX/hs+WzRQaK/clsfOhRRRTAKKKKAPYfgV/wAf3/bwP5V2X7QX/Il2v/Xc/wAhXHfAr/j9/wC3gfyrsf2gv+RLtf8Aruf5CvzXFf8AJQw9T1af+6s+bD/Sig/0or9JPKCiiimAUUUlID2T4Mj9xF/18j+degfF3/kEv/17N/OuA+DH/HvF/wBfQ/nXoHxc/wCQQ/8A17N/Ovy7H/8AI6XqerT/AN3Z8tn7xA9a6jwr4TOsuZrpjFbJyWPFZGiac+p6vFAq5y3Neja7ONMtY9JtAI0VQXK9zXp8YcRyyjDqlQ/iz28vMnKcrq5vjVhKbst5Psv+CRrPoWkOEs7ETspwzP0apn1XRNQUJd6XHAM9YxXOfWkxX4fPNswnU9tKvLm73f5bH7HDgvJY0fZey+d3f7yXXPBkUltJqGjSCWAclQORXDyIY3KMMEdRXpGhagba7WCZz9nkOHWuf8caB/ZOqGaEEwzfMpr9d4L4oq5hJ4LGSvNap91/mj8p4hyOWSYtQTvTn8Pr2Op+Dw5l/wCuy/zFe9+MOfD7/wDXRa8F+DwyZv8Arsv8xXvfi/8A5F9/+ui1jn//ACM16/5HNhv4LPEtR3DwzPuGc3B/DrXJ1197tHhC4JGSbg/h1rj6/K86/wCRlW9f0P1jgT/kTr/FL8woooryD7oKO1FBpoDtLcefb6PJjbtbGPXrXpFmP+KFvf8ArqP6V5xbsWttH8v7u/k/nXpFn/yI97/11H9K/R8s/wCRXh/6+0fztiv+Rjik/wCZnnt+Ni3SHk9c1z3euh1EeYLqQZHQflXP18VxJ/yMp/L8j7ngRRWXTt/PIKKKK+dPvgpKWkprcRq6UQbaZQdrnGCa9L0FNngvUwP7o/lXmOmR7reZgMkV6foX/Il6l/uj+VfoXDtvqD/xr9D8Z4gjbPaz/ur8mcLqjBtBk29pj/SuZrpNTiA0OQjcP3x4P4VzdfK53b+0avr+iPs+Cf8AkTx9ZfmFFFFeMfaBQv3h9aKB14piex1pOZ9N5/5Z/wCNdb4lZhDoSg8G3fP5LXJRAhtOD8kR/wCNdT4tnNva6G4Tfi2fj8Fr9JoJ/wBi01/cl+TP57xKUsRXX/Txf+lI8tuP+PqX/fP86jp0rb5pGPGWJ/Wm1+a9D+goaRSCiiigsK09FjjeScy4+WMkfXFZlXtKx50m5to2HNdWF1rw9V+Z4mf/APIrr/4X+R6/8PDnR5zjHzjj8K66uR+HoA0ebbyN4/lXXV+mYv8AjSPyLC/wIegUUUVzHSFFFFAHi3iX/kqw/wB5v/QTWx61keJf+SrD/eb/ANBNa3rX5xxd/wAjH/t2J9FlP+7/ADZS1v8A5AV5/wBcjWHow/4ktr/1z/rW5rX/ACArz/rkaxdG/wCQLaf9c/619LwD8Nb5Hm59vAuYoxSGSINgyID6FhSllAyzAD1J4r9Nuj5mwYoxTfNiIyJEI9dwpRIjcq6kezCi6CwYoxShlblSGHsc0tMNhMUmKUsq/eYL9TQWVcbmUZ6ZOKLhYMUYpcjHUUUXATFGKXFGKAO1+HYx9u/4B/Wu3rifh5/y/f8AAP6121fPYz+PL+uh6FH4EFecfGb/AJFVv9x/5V6PXnPxm/5FRv8Arm/8q3yv/fafqFf+Gz5aNFBor9yWx86FFFFMAooooA9j+BP/AB+f9vA/lXYftBf8iXa/9dz/ACFcf8Cf+Pw/9fA/lXYftBf8iXa/9dz/ACFfmuK/5KGHqerT/wB1Z82H+lFBor9JPKCiiimAUd6KSkB7L8GP+PeP/r5H869B+Ln/ACB5P+vZv515/wDBf/j2j/6+R/OvQPi3/wAgeT/r2b+dfl2P/wCR0vU9an/u7PE/hwAL6eV4wVRSdxHSpL+4a6vpZXOSWPNaHgjyrXwxeTBMySKRnFZBOWJNfB8b4n2+dSj0ikj77w6w8fY18TbVyt9whooor4o/VRc45HUVs+K7c6p4NtrpWDNCNp5rFPSt+ythdeENQ3NnYOFzXvcO4l4XNqFRPrb7z4Dj7DKrlDrdabTX6i/B7rMP+my/zFe9eL/+Rff/AK6LXg/wgTbLcD0nX+Yr3jxd/wAgB/8ArotfpmfP/hTXr/kflmG1os8Tv0KeF7gOuM3BIz+NcjXV6gHPhmck/L9pI/nXKV+WZ3/yMq3r+iP1ngVNZPG/80vzCiiivIPuQooopgdxaSbrHRwqfx/l1r0ez/5Ei8/66j+lea2YIsNF/wCuv+NelWY/4oi8/wCuo/pX6Pln/IroJd//AG4/njGq2ZYr/E/yOA1RFC3Th15AG2uZ710l/ao2n3DtKOJCQBXOV8RxE08yqWfb8j7fgR82Wzdre/IKKKK+fPvgpOlLSGmgNbSQDbXGfTivS9BIPgvUsc/KP5V5rpD7bW4HqOtek+HlVfBOohPu7R/Kv0Dh1f7BL/Gv0PxniGTeeVY/3V+pxOqOp8Pvjk+cc569q5auk1Xa+jSMM5ExH8q5uvlc5io5hWS7n2XBUlLKIO3WX5hRRRXkH2gUL98fWihThgfemJ7HXkA3WnlT/wAs+R+ddd4k2/Z9E3AH/R36/QVyAAe50106eXz+tdX4ruFt7TRS65/0d+fTgV+kUFfJaS/uS/Jn88Vk1Xr2/wCfq/8AS0eVXH/HzL/vn+dR0+Y7p5G9WJ/WmV+bdD+hYfCgooooLCr2lBWmkDAcoeT2qjWnoltHcTSiWTYQhwa6sJJRxEG+6/M8PiB2yrEf4X+R638PRt0eYDn5x/KutrkPh2f+JROM52yAZ/Cuvr9Nxf8AHkfkWDd8PB+SCiiiuU6gooooA8a8QxPN8WFWMZO5v/QTW7/Z9xn7hrN1Ef8AF4F+rf8AoJrsq/L+M6rhmaX92P5HoYHFypUuVLqchrljcLoF6SnSI1yvhm5kutDgMsDQlRtAbuPWvR/EP/IuX3/XI1wejf8AIFtf9z+tfT+HlRzhWfmjjzSvKtytnN+KdKgkvIFgknW6uZAPlkIAGeePxrobjToZ9LW2uXfYiDLBsE4HrUE+nzT+J4Lph+4hjIH1NWLr7VPBdQrHtymI29TX6clZtnk32OZ0HRoLmO+uJJrj7IzERgyngDnOaoQ272mk6hfW08wgaTy1DOT8oJyRXW2mnS23hgWajE3lkfjVG50O4PhWC1hUGaJldk7MR1FQ4OxXMY+i67Fp0F5LHLJLbrt2CQ8liP8A9ddBpHiKO/kkhugsEsYzjdxisG68N6hqSz3Elslu2BshXgNgYrQ0fQXllle/tPs6lQAAxyamm6iaQSUSPVg2r61PAlyyR28HmKY2xk4/+tWfbyz685jmuJEFrCSNjEZIPU1q3+kX2n3zy6RCJkmi8tgxPy8YzVcaLqWlFXsYVmM0RWQE/dJND5rgrEGo32pz+F7KeCTam5fNfPJ+bFdlbkm1iJ6lRWJcaLOPCkNhF80qspP/AH0DW9ChS3jVuqqAa1ppqVyJajqKdijFbXJOz+Hv/L7/AMB/rXbVxXw+/wCX3/gP9a7Wvn8Z/HkehR+BBXnPxm/5FRv9x/5V6NXnXxl/5FN/9x/5Vtlf++0/UVf+Gz5ZNFFFfuaPnQooopgFFFFAHsnwJ/4+z/18D+Vdf+0F/wAiXa/9dz/IVyPwIH+lH/r4H8q679oL/kS7X/ruf5CvzTFf8lDD1PVp/wC6s+bD2ooNFfpR5QUUUUwCiigdKQHs3wX/AOPWP/r5H869A+Lf/IGk/wCvZv51wHwW/wCPSP8A6+R/OvQPiyM6PJ/17t/Ovy3MNM6XqetT0w7PKfDx2fDyaVsId+0cdelYdb0QW38CxRq3MjbiKwa/LOIqntM3xEv735I/VeAKajk6mvtSk/xCiiivCPvgrd8PxzT2l3DFkqUJIrCro/CNw0ct2oGQYST+ldGGk4V6cl0kvzPmuKqXtcmxEf7rJfhQpjvbxGGCLgD9RXuXi9gnh6Rj0DqTXiXwwkEuqXzgYzcj+Yr2zxlH5vhuWPONzAZ9K/Xs5d8wi35fofh+DbeG+R4tqILeDpD2+0kj9a4+uu1IeX4PaIH7twQT69a5KvzDOlbMq3qfrnAjbyaN+8vzEoooryD7kKKKKYHbW7hdG0Z1UlxL90d+tek2f/Ij3nb94P6V5vabRZ6MN3PmZH616Taf8iTef9df8K/R8s/5FdD1/wDbj+eMbrmeK/xP8jzm7x9huQ3/AD0bH51z9dBdx+ZY3PGdsjH9a58dK+M4lsszqW8vyPsPD13yuf8AjkLRRRXzZ+ihSHrS0hprcRp6YxW3lx7V6hoY/wCKO1L/AHR/KvMNKKGGYOe3Fem+Hww8F6iJDk7R/Kv0Lh3/AJF7/wAa/Q/GeINM9q/4V+pwWo/8gGb/AK7n+lc2K6W/QvolxjoJz/Subr5bPVbMqy8/0R9jwQ75RFf3pfmFFFFeKfbBQPvD60UD7340xPY65CGu9P28BY8Y9eDXSeOdw0nR8Dj7O2fyFczbqVuLDPOUJPtwa6fxvj+zdG5+b7O+B+Ar9Lou2TUv8EvyZ/PMruvWv/z9X/paPLX+8frSUr/6xvrSV+aH9Cx2QUUUUigq/pWBLIWGV2HNUKvaTA09w4yQNpziurC/x4eq/M8LiG39k4i/8j/I9d+HKsuiz7sf6wYx6YrsK474cSeZo1wMfdkArsa/TcZf28rn5DgWnhocu1gooorlOwKKKKAPJtR/5LAv1b/0E12NcdqI/wCLvp9W/wDQTXY1+U8bf8jRf4Y/ka4f4DN8Q/8AIu33/XI1wujD/iS2v+5/Wu68Q/8AIu33/XI1wujf8gW1/wBz+tfUeHPwV/VHNjOhdxSYpaK/WDzgxRRRSAMUYoooGGKKKKBBijFFFMAxRiiigDtPh/8A8vv/AAH+tdnXGeAP+X3/AID/AFrs6+fxn8ZnoUfgQV518ZP+RTf/AHH/AJV6LXnfxk/5FJ/9x/5Vvlf++U/UVf8Ahs+WKKDRX7mj50KKKKYBRRRQB7L8CP8Aj6P/AF8D+Vdf+0D/AMiXbf8AXc/yFch8CP8Aj5b/AK+B/Kuv/aB/5Eu2/wCu5/pX5pi/+Shh6nq0/wDdWfNZooNFfpR5QUUUUwCgUUCkB7P8Ff8AjzT/AK+R/OvQfiwM6PJj/n3b+def/BX/AI80/wCvkfzr0L4qqW0iQDqbdsfnX5ZmD/4WV6nqw/3dnk9/GYvCOm5GMjmsIV0uqo0Xg7TEkYMwzyDmuar8izWTlmFdv+Z/mfsHA6SyOl8/zCiiivNPtArc8MMReyhSBujINYdbXhXH9soGXcCMVUXZprujxc+jz5XXj/df5G18O4li1q+VOn2hcfmK9l8Ylx4clMQy+4bR715J4ICDxHqAjUqBOvB+or17xWcaC+f761+vZlJvF05en5I/Acv1wi9DxG+BPg12kGJDcHd+tcjXaau4PhKXgD/ST0/GuTtHjSXMoyK/Nc7f/CjXfmfrnAt45LF+cvzIDx1pKnu5EkmPljC9qgryVsfdxbauwoNFFMZ29ogNjojqP+WuM/nXpdoP+KLvP+uo/pXmVujyaJpMaHYzS/K3p1r02zBHgu7BOT5g/pX6LlbvldD1f/pR/O+M/wCRnil/ef5Hnd6WitbtFGfnJJ+tc5XTakodrxmO0gD5fzrmBXxfEf8AyMqny/I+34EjGOXTS/nkLRRRXzx9+FJ3paTvTEamlIHilBO3pzXqGhEHwdqJHTaP5V5dpgLQTYHpXqWhkHwdqBU5G0fyr9C4e/3B/wCNfofjPEH/ACPayv8AZX6nnt5JKuk3KjlTMc4HTpXOV0l6+NIuV3AZmP49K5yvl8//AORnW9V+SPseCHfKV/il+YUUUV4h9sFA60UL94fWmJ7HVWYIurEKeNhzn6Gup8aErZ6IQMn7O/b2Wuei2m508r3j6/nXR+NZGi0/RmRckQPg+nAr9Lof8iel/gl+TP54knGvWv8A8/V/6WjyuQ5lYn1NJSucysT1JJpK/ND+hYfCgooopFhWjo0jJPIVODsJx61nVoaTGskku9sYQ4OK6MN/Hh6r8zw+IOX+ysRzfyv8j1z4dRCLRp8HO6QGuvrkvh4SdFlyMfOP5V1tfp+L/jyPyHBKKw0FHawUUUVynWFFFFAHk+o/8leT6t/6Ca7CuK1qXyfi0jAZ5b/0E10329vSvyzjSDeZpr+WP5EU8RTpLlmM8Q/8i7ff9cjXD6MP+JJa/wC5/Wur1++Y+Hr0bf8Alka4vww922gwG9jVCB8gXuK+m8PE4wr+qMcRWhVS5C9Nf2lvMsU9wiSN0Unk1M8iRRmSRgqAZJNedXUxn1jUri5svPihlAaQnlACelbvi29KeGLX7OGdJ2VcDqRjpX6gqu7Ofl2Ohi1CznhaWG4jeNPvMDwKaNVsDAZhdRmJTgsDwK88v7wWVvLaLZG2nkdQ0SHhxkVvaGlmJLy3v7BYHRA7RfwsvPNTGtd2HyWOntdRs71iLS4SUjrtPSrWBXAWc0eg6LeaxDCsb3UpSIAHCgcf0rR0TxUoeaLUp2kVBuEwjbn2qo1Vez3JcDprm9tbMqLmdIi3TcetJPf2lsEM86Rh/u5PWuVnNrr2uXbMPNhjtsx7gRgkdaz9JjTV5pUvh5i28DCMN2waXtXfYfLod+80UcYkeRVQ9GJ608YIBHINcDqFvPeeDrC4a4dVidcoD975q7u2/wCPSL/cFXGfM7ClGyH4oxTqKsk7HwD/AMvv/Af612Vcb4C/5fP+A/1rsq8HF/xmd9H4EFed/GT/AJFKT/cf+VeiV538Y/8AkUZP+ub/AMq3yz/fKfqKv/DZ8sUUnrS1+5nzwUUUUxBRRRQB7N8B/wDj4b/r4H8q679oH/kSrb/ruf5CuS+A/wDr3/67j+Vdb+0D/wAiVbf9dz/IV+Z4r/koYep6sP8AdWfNZooor9LPKCiiimAUCiikB7T8Ff8AjyT/AK+R/OvQvimcaS5PTyG/nXnvwU/48k/6+R/OvQ/ikP8AiUvj/ngf51+V5j/yOfmerH/dpHlOqFj4T01t3yNnArnq39Ub/il9NUnkE1gV+PZg+bG1n/el+Z+zcGK2R0Ldn+YUUUVxH1wVteFMf8JDbgnAJrFrY8LEDxFbbv71PoedmiTwNb/C/wAjp/BDb/E2p8Yxcj+Yr1rxlGZvDU0YO0uQM+leT+CV/wCKk1Lp/wAfI6fUV614ukEXh2WRgSFYHAr9bxz/ANopNdl+SP55wNvqvyPEb+Mp4LMe7Pl3BBJ79a5IV12pSxv4QkdQV8y5JAP41yNfned3/tKtfufr3An/ACJY+svzCiiivHPuQooooA7ixGdP0U5/5a9Pzr0y0/5E27/66j+leX21ytvomk3DZ2pLg4/GvULI58GXRHeQf0r9GyyLWV0H5v8AM/nnGv8A4VMUv7z/ACPO9VmZGvAeCwAxj61zIrptXjZ5bslsMoBPuOa5qvjOI0lmM/l+R9vwPd4Co/78gooor50+9Ck70tA+tNCZqaPgRzsxxhcY9a9N8Ox+V4Kv1Jz8oOa800RykdwNuQVPNei+H2J+H+oknnb1r9B4cT+oy/xr9D8V4jcFn9Wy15F+pwuqRiHSJQzAs85K/pXOjpWxqgf+zYCRx3PvWP3r5TOajqZhWb7/AJaH3XBkUsmptfabf4i0UUV5B9iFHeikz1poR11i8bLpzhvuptP15rqvGgzpOk8f8sG/kK5HRZY20qFZQWIk49q6/wAaTmPTNJjAzvgb+Qr7/C1XLJY+SkvzPwHHR5cxxFNdKkfxkmeUSf6xvqaSlk/1jfU03oK+AP32OyFopKKCgrS0hiskoyBlDkkVnCtqyt1jJkxwYySPXit8M19YprzX5ngcRTSyqun/ACv8j1P4djGizZGPnH48V11cj8PFZdFl3nOXBHsMV11fp+L/AI8j8kwX+7Q9AooorlOsKKKKAPH/ABB/yVaP/eb/ANBNborC8Qf8lWj/AN5v/QTW6K/MuMf+Rkv8MTxq/wAZQ10f8SG8/wCuRrA0Uf8AEktP+uf9a39d/wCQDef9cjWFoo/4kdp/1z/rX03h/wDBW+Q6XwsxdQ8M3k13P9juVjtbogzIRkn1x+dWr3QprvTzaGVVSMDyDj7pArexRiv0v2cUbcxyZ8J3N2ss+oXKyXhwI3VcBcHIqxaeHrzZdy6hcrJdXEXlq6jAUYIrpKMUvZxQczMK68PC48Px6fvUPHyrY4zSaRodxbSSNqbQTZGAiRgAfhW9ijFVyRumg5mc5q3h64mu/P0qZLYunlyDbwRVefwrcxCM6XdLCxj2Slhndk811eKMUnTjcOZmJc6B5nh6LTYpNvllTuPfBzWvFGY4UTrtUCpMUYq0kthDcUYp2KMUwOw8Bf8AL5/wH+tdjXH+A/8Al8/4D/WuwrwcX/GZ3UvgQV558Y/+RRk/65v/ACr0OvPfjF/yKMv/AFzf+Vb5Z/vlP1FX/hs+VaWkpa/c1sfPBRRRTEFFFFAHs/wH/wBc/wD13H8q639oH/kS7b/ruf5CuT+A3+uf/ruP5V1v7QH/ACJVv/13P9K/M8V/yUMPU9WH+6s+aqKKK/SzygooopgFFFApAe1fBMf6Cn/XyP516L8Tl3aaw/6YH+ded/BMf6An/XyP516L8TP+Qa2enkH+dflOZf8AI3+Z6sf91keR62nl6LYLxjHUVgV0XiACPSdPReRtzXO1+OYt3xNX/FL8z9r4Rjy5JQXkFFFFcx9SFa/hfH/CRW2Rn5qyK1PDknla7bsSBhuppSdos4MxV8HVX91/kdd4JH/FSaj8u3/SB/MV6p44Yr4TumU4IGRXl3grc3iG/Z1xmcEe/Ir1TxkiyeGZ0fhWIBxX63iJXr0ZeUfyR/PGCX+yfI8Mu0D+CI5Gb5vPOc9+tczjFdVqCBPBqqv3VuCAT361yo6V+eZ075lWf94/XuBVbJYer/MKKKK8g+4Cg0UGmB2kcKXPh7SoWOxWm5b0616hZDHgu5A7SD+leX28sx8O6bHbANI0uBkfWvUbMY8G3IPXeP6V+i5Zf+y6C83+Z/O+NVs1xd/5n+R5vqQLR3RkOJAxz9O1c7XSX/z2927ctvK59q5uvjOI3fMp/L8j7TgF3y2f+OQUUUV86foQUgpaSmhM1tH3CC42LuOOfYV6Xo4UeBdSEX3dg6fSvONBmjjjuFY/My9PUV6LoJA8A6iUBA28Zr7/AIcv9Tlf+dH4txJKP9uVYpfYX6nm+qZ/s+3GcDuKzHRVRSDknrWrqag6dFJ3J5rHr5TOFbMK3+Jn2/BUnPJKL7X/ADCiiivKPswpBS0UxM6HTEkgsbd84Dy8V2XjjIs9F/693/ktcdp8pk0+1Qc7Za7nxiYlsNJMmCfJbGfoK/QMG3HJItrpP9T8CzKo/wC08TJ/8/I/nE8lk/1jfWmk0+bBmfHTcaZX5+j97hsjV0nTFu1eWZtsaD86zp1VZWCcgHg0q3EsaFEYhT1AqLk1EYy5m2zOFOam5Segucc1q6dN9olAc4VE556isrtWloqhrpgem3murD29vBvuvzPH4iinlWI/wv8AI9Z+HBc6LPv/AOenH0rsK474buX0W43HOJcCuxr9Pxf8eR+Q5e1LCU2uwUUUVyncFFFFAHkHiH/kqsf+83/oJrcFYfiH/kqsX1b/ANBNbgr8y4w/5GP/AG6jxq/xlDXf+QDef9cjWJon/IDtP+uf9a29d/5AN5/1yNYmiD/iR2n/AFz/AK19JwB8Fb5DpfCy9RWZd6/Z2moCzkLtNxwq5xmrl1eQ2dk11OSsSjJOK/TuZG1mieisqHxFZTWctyPMWKP7xZcUQ+IrGWzkudzJFH1LLijnQWZq0VQ0zWrPVt4tHJZOoYYNaGKfMmJ3QlGKzdT16x0mVY7t2DMM4UZwPWmXfiTTbIRGWUkSruXaM8etLmitB2Zq0VRudZsbWzjupp1WKUgISeuauqQ6Bl6EZFF09gaaFopcUYpiOv8AAn/L5/wH+tdfXIeBf+Xz/gP9a6+vDxX8ZndS+BBXnvxi/wCRQl/65v8Ayr0KvPvjD/yKEv8A1zf+VbZZ/vlP1FX/AIbPlXtRRRX7oj50KKKKYBRRRQB7R8Bv9bJ/13H8q639oH/kSrf/AK7H+lcn8Bf9bJ/13H8q6z9oD/kSbf8A67H+lfmeK/5KGHqerT/3ZnzVRRRX6WeWFFFFMQUCigUgPbPgl/yD1/6+R/OvRPicM6U+OvkH+ded/BL/AJBy/wDXyP516N8SjjTWJGf3J4/GvyjMv+Ru/U9Vf7rI8i8QoV0rT9xySuc1gV0viof6Hp+OB5fT865qvxvE64ip/il+Z+28KR5cmw6/uiUUUVgfThV7RmC6tBld3zdKo1b0st/akGzru9aUvhZy4tXw9ReT/I77wYGHiC+38fvlwPTkV6h4xYJ4ZuGYFguCQO9ea+FI2j8RXoc5Pmrz+Ir0jxqxTwrdMvVRkV+rT1nQ9I/kj+dcJphn8zxHUdz+Dw4+VDcHCnqOtctXV6hI83gtJJvvGc/1rlK+BzpWzGsv7x+t8Bu+SQ9ZfmFFFFeQfchRRR2pgdzpOV0vRuesx/rXp1r/AMihd/8AXT/CvKLaWVNB0t7ZN0izfKPXrXq9mSfB9zu67xn9K/RctjbLKD83+Z/PePf/AAq4tf3n+R5zqaGKO7jHzLu3bvr2rmAc10msMYjdRoDtLZwTXN18XxErZjP5fkfacCJLLp2X25C0UUV88ffBRRSDpzTQmbmmwQtpsskY/eAjJ9K9M0dR/wAIdfjjGwfyry/RT+5n7jbXpXhsmbwPfbyTkYr7/hxP6jK/86/Q/FuIJR/t2tDryr9TzvWCTZY2gBXIBHesEVs6qxW3MXJVJCAaxq+VzhWzCr6n3XBqtk1NWtq/zYtFFFeSfYBSUtFMDf8ADnN1CD0yePwrtfHSu+n6OqHA8h8/kK47R1SK3gYtgs/BH8q7Hxy+2y0cdzA/f2FfodBt5NFr+WX5M/BMbKLzHEJ9Kq/9KR5W/wB9h70Ur/6xvqaSvzw/eY7IKKKKRQlamhsUupGC7iEJxWWav6TI0d020ZG05NdGGV60F5r8zxM/0yvEP+6/yPX/AIdxCLRZsHO6Td9K66uQ+HSFNFmyScyZ5rr6/TsX/Gkfj+Bt9WhZW0CiiiuY7AooooA8U8a3D23xJjeI4bc3/oJp/wDbFz/eqDx9/wAlDi/3m/8AQTVavg+J4RljrtfZR+a8QYuvSxnLTk0rD9X1a5fR7pS3WM0eFYbmHQLf7ZP5xZcrxjA9Kpap/wAgq4/3K2ND/wCQDZ/9cx/Ove4LjGMatl2PR4dr1a1Oo6kr6o5bVrK7tL+/1eC7jIjIJiKgnAzx0rY1iN9X8LoiyrA86qcnoOKdfeFYL3UTcmeREcgyRKflfHrVq50NLq2kgknfymACKD9zHpX3vK9ex9TdM5WaC7K3OhyXUedqMsu0DHzdOntWdrct/YsukF0mxJGQ4UDqe+K6+Hwjbx2k0c08k0suMzMfmGOlEHhG1SzmiuJXuJZeszn5hjpUezkXzI5W/wBWvdGiuLWVVa4cLiWFQDggVe0HWbqwknWS1vZ7YKCu8Atn8624fB9qtpPFcSvPJL/y1c/Mvpiruj6GNLLu9xJcSOMbpOwpxhJNCckznUuI9R16+muISim1+VJQMjg5rP8ADyrLc3Qu1DBYH2bh0Ga63WPDcOrTrMJXgcDaxQ43L6Gor3wnbXSQiGV7cxrsJjONw9DQ4yuLmVjmrywjuPBFjdTbi8TptGeB81d7aj/Q4v8AcFU7nRLe40iPTxlIkIIx7HNaEaeXGqDoowK0jFpibuhcUYpcUYrQk63wN/y+f8B/rXXVyXgf/l8/4D/Wutrw8V/GZ20vgQV598Yf+RQl/wCub/yr0GvPvjD/AMifN/1zf+Vb5Z/vlP1FW/hs+VTRQaK/dFsfOhRRRTAKKKKAPafgL/rJP+u4/lXWftA/8iTb/wDXY/0rlPgL/rJP+u4/lXV/tAf8iTb/APXY/wBK/MsV/wAlDD1PWh/urPmqiiiv0w8roFFFFMQUCigUgPbfgj/yDl/6+R/OvRviScaaxxnEJ4/GvOvgj/yDR/18j+deifEogaa25gMwkDP1r8ozP/kbv1PU/wCYWXoeReKSwNmp+75IwPxNc/XR+LQVeyyOfJH8zXOV+OYnWvUf95/mfuXC6tk2H/woKKKK5z6MKuaQobVoA2cb+1U6vaNt/ti339N1TP4Wc2L/AN3n6P8AI9F8L/8AIw3uOf3y/wAxXonjf/kU7v8A3a888LZHiG9UjpKv8xXonjUFvCl2AMkrxX6r9uh6R/JH854TXDS+Z4hesX8DRZ5xOf61ywrqL1CngmMYx+/OQfxrl6+Dzr/kZV/8TP1vgO39iQ9X+YUUUV5B90FFFFMDudKH/Eu0bjA8/wDxr1G1/wCRSuf+ug/pXlUc/wBi8PaRcKmSk3T1616pZnPhC4Pq4P8AKv0TLU3ldB+b/M/nrHSTzTF/4n+R51r53T3KlRwowa5aup1dhNFcyKS2CVPtiuVHSvi+Iv8AkYz+X5H2nAklPL6jX88haKKK+fPvwo7UUlNCNnRI82lw5PC44HevUNB8s+EL3yeE2jH5V5TpLBY5MqSOM16vo5SHwhfEDChAcfhX6Bw8msC/8f8AkfjHEF/7drN/yr9TzHWseXLhdv70/jWJW7rZ8y081SSrvkE1givlM4v9fq37n2/BbUsmpuL6y/Ni0UUV5J9iFJS0lNCZ1GjxRxfZGkJ2sc4PTOK7HxpF51to6AfN5DkH04FcboWHuLVWX5eTg9+K6vx8cWWjHJH7h+n0FfomGusnh/hl+TPwTGa5hiL/APP1f+lI8wlG2Zx6Mab9KV+Xb606FPMlVB1ZgK/PNlc/eE1GNxFidhlUY/QUw/KcEc13DBNNsY4hENyj5ivVqq3OjW+qbWhxDO3Y967K2BxFHBxxtRe5I/PcLx/ltbMp4GacbOyk9mzkvp0q9pf+sl4z8h4qvd2ctldPDOCGU1a0f/j6bnA281jhmnWg13X5n1Geyi8oryTuuR/kex+BONGfAwNw/lXUVyvgF9+jynO4bxg11VfpuJ/jSPyTBtPDwa7BRRRXOdQUUUUAeIePv+Shxf7zf+gmq1WfH3/JQ4v95v5Gq1fDcTf77/26j8s4m/375FXVP+QVcf7lbOhj/iQ2f/XMVjap/wAgq4/3K2tDH/Ehs/8ArnXu8G7Vfkenwx/CqeqL2KMUuKMV+gn1wmKMUuKMUAJijFLijFIBMUYpcUYoATFGKXFGKYCYoxS4oxSA6zwP/wAvf/Af611tcn4IGPtf/Af611leJiv4zO2l8CCvPvjB/wAifN/1zf8AlXoNef8Axg/5E6f/AK5t/Kt8t/3yn6irfw2fKhooor90R86FFFFMAooooA9r+Av35f8AruP5V1X7QH/Ik2//AF2P9K5b4Cfel/67j+VdT+0B/wAiTb/9dv8ACvzLFf8AJQw9T1of7sz5qooor9MPKCiiimIKBRRSA9v+CH/IMH/XyP516H8S0V9LO4ZxESPrmvPPgh/yDB/18j+degfE+4jt9LHmnG+MqPrmvyjMrvN3bueposJK/Y8r8YDJsjnJ8kA/rXM103jJl8yzVTyIBn261zI6V+NV/wCNP1f5n7pwyrZPQ/woKKKKxPoQq9ozBdYti3TfVGrmlFf7Vtw4yN4qZ/CznxOtGXoz0vw2qr4kvApP+sX+Yr0HxoxXwrdMpwQMg1wHh0KPE94q/wB9eD9RXf8AjX/kU7v/AHa/U4u8sPftH8kfzlhbLDSt5/mzwu9kkk8IR7+QZidx+prO0zRZtShkkj4CDqa09QY/8IfCHHzeccY/Gsyw1yawtnhjHysK+Az7n/tCt7PfmP1Xgz2ryGn7Le7/ADM+aIwzMjdVOKZTpHMsjM3UnNNrzdban30b213CiiimUdzZz2yaLpQuQGRZfm9uteo2uD4RudvQuMfpXl2mvCulaSZlXY0uG3fjXqVr/wAinc46b+P0r9Cyy/8AZlD1f5n89Y1f8KmL/wAT/I841CZbO3vo3G53Y4I6c5rlRXSarv8AJuiq8eYQQf51zY6V8bxErZlU+X5H2fASistm4q3vyFooor58/QApO9LRTQmamjFG8yNurV6npiE+C9QUNuOwDP4V5TowUySD+MjANeq6EnkeC71WycLyDX6Dw8v9idv5kfi3EX/I+rL+4v1PNtUnVNGjtsfNu+Y+lYPf2rZ1bLW5cDCM5IHcVjV8nnCtmFb1PuOClBZLS5fP8xaKKK8k+yCkpaSmB1WhFGW3dT8yHFdp4xCfY9JMq5QQtnj2FcLosHmQQeS2W8zLD0rsvHkxitNH/umF8j8BX6Fh0nk0bP7MvyZ/PuN5nmOJj/09j/6Ujyycjz329NxxW1oGkG4ZrqfKxR8r2yayoIvPv1T+89dxMFhKQR7VSMYAHevhMJhp4vERw8eu77I/Q+NuIXkmWXh8c1Zf5lSdZp7pNvQHnNWRqGlwzBJ38uSHneO9QX1xNb6XJNagGXODx0FcTI5kYs5JJOTXo55jHjGsHBctOnou782fB8CcKUMwwssfjHzc+3da7+pr+I9Ri1HUjJB9wDAPrTNCmSG4l81NwKH8Ky+KvaUGadwmOVOSa8zBU1GrTgtro/Wc5pQpZNWprZQf5Hr/AMO4zHos2TndJke1ddXKfD51fRJNqkYcA5711dfqGKv7aVz8mwKSw0EuwUUUVzHYFFFFAHiPj/8A5KFD/vN/I1VrQ8bKG+I0IYZG5v8A0E0vkx5+7Xz+cZTUxeJ9pGSSsvyPyjiiajjreRiap/yCrj/crc0P/kA2f/XMVS1eFP7Huvl/5ZmpPCtl9i8PW48+Sbeu7LtnHsK9XhzATwXOpu97Hq8KyUqVT1Qa94gg0MW6yDfJcSCNVHueta28eSJDwNu415l4r1LfqzSXlrcZiuEWE+USuM9c11/iHUJIvDkbWsUrmVVVhGpLKMelfUKpq/I+0cdET6N4hg1h7zyhtjtnK7j3xRoviCHWGuzENsds5Qse+DXEabqv2e11ODT7O6w0wBxEcgcZ4pNM1XyLPULewtLra0oVsRHcASc1Htdh8p3Gi+IYNYa7KYSO2fYWbgGtWKeGcZhlSQDqVbNeTpqJj0nUorC3mVfOUOHUpxjnJrd0CXUrS7uH0+wiKFB+4E+efXpVRq7BynQa14ibTrwW9tbtcSKu+QD+FaguvFwVYvsNs07NH5kgH8I71nfbHi129m1WNbWSW04QtkcA55rP0F0sZ7lrxtglt2ZN3cZpc7uCijp7/wAXWdlpdtdEFjckBFA9Tit2JvMhR+m4A1w1zaR/8K/tJpYwZVdNrEdPnFdvaj/Q4f8AcH8q0jJt6ku1tCXFGKXFGK0JOr8E/wDL3/wH+tdXXKeCv+Xv/gP9a6uvFxX8ZnbS+BBXAfF//kTp/wDrm38q7+uA+L//ACJs/wD1zb+Vb5b/AL5T9Sa38NnylS0UV+6I+dCiiimAUUUUAe2fAT70v/Xcfyrqf2gP+RJt/wDrt/hXL/APrN/13H8q6j9oD/kSYP8Art/hX5liv+Shj/iPWh/urPmqiijkV+mHlBRUqW8sozGjH6Cia3lgbE0bKfcVHPG9rk80b2uRUnalNJVlHuPwP/5Bf/byP512fxf/AOQXbf71cb8D/wDkFf8AbyP513HxXtzPpcJBAEfzHJx3r8rx7SznXuz0Kn+5T9Dy/wAZKFvLXHeAfzNc3XTeMzums29YR/Wuar8YxGtab83+Z+8cNf8AInw/+FCUUUVgfQBVrTONTg/3xVWrmlHGq25H98UpfCzDEfwZejPS9CgEvjK6uMkFCoC54PNeheMSB4Xui3QDnFcJ4eQDxJeMpzmRePTkV3XjQZ8KXYHJ2/0r9Ri7vD+kfyR/OWFVsPL5/mzxDUmWTwfG6ggGc4B/GuWror1ifCcanjExyPxNc7Xwuc2/tGtb+Zn65wKv+EOn6v8AMKKKK8k+4Ciig96YHVOR/wAIpp4HXzufzNew2X/IoT/7w/pXk1vOIPC9i0kSt+9wMjOeTXrVmc+EZ+P4h/Sv0bLX/wAJVD1f5n874z/kb4xf3v0PNdT4hu/n35c5P9K5jvXTartK3hiGI9xGD6965mviuIrf2lP5fkfacA3WWz/xyCiiivnj9CCk70tFMDW0RUKzbgM7eCe1enaFn/hBr7Mm47fvV5fo0qr5yFc7kP4V6d4d2jwHebhldvIr9B4dX+wN/wB9H4jxG3/rDWX9xfqecasMaemG3c9fWsMVtaqCbJWU4jLfKvoKxa+Uzn/kYVfU+64Hv/YlL5/mxaKKK8g+0CkpaSmI6jSgot7XaRG27lvWu18YwpMmjLIePJfj14FcNpsivaWmF5EuM12Xjt/Lt9HYHB8l/wCQr9Ewdv7Hj6T/ACZ/P2Mi/wC0cUv+nsf/AEpHn+j28c2v7X4VXP8AOrmoeIEt9Ra3CbpFPr2qnohzq34mua8RyzWPiWaXGDjjPenwDhaeIxVbn3UVY6fEem8RjaFGeyi2vU2bfxqF1tre6T/R2+QirOr6d9kkWWI7oZhuU154JTNdiRvvM+TXrfkC/wDCsaIC80agqB6V6fiBk9DC0aeMpRs72lb8zn4MzL+y8dDCN2p1OnmcoRWhpG3z5NzbRsNUWjeMkOrL9RVrTV3SuB1KnFfmGF1rwt3X5n7Nns7ZXXl/df5HtXgYAaM23kZHP4V01cv4DcPojY7MB09q6iv0vE/xZH5FhdaEbdgooornOkKKKKAPGfGn/JR4f95v/QTT6b41/wCSjQf7zf8AoJp1XX+P5I/IuK/9/wDkU9X/AOQPdf7lW9CH/Ehs/wDrnVTV/wDkD3X+5V3Qv+QBZ/8AXP8ArXVgN2evwl/Cq+qJbuwt76NUuY1cKwYcdxSxWUMMzyIOWABBORVmivUsj7UqQafbW00skMaq0zbn46mlt9Pt7WWSSGJVaU5bjqatUUWQFA6PZbLhTCpFx/rBjrRp2kWmlKy2aFdx5JOTV+ijlV7juzP1DRbLU2Q3cW8ocg0y80GwvliWeEYiGFxxxWnRSshXZUn062uLQW0sYMS4wo9qsKgRQq8ADAp+KKegDcUYp1FMDqfBX/L3/wAB/rXVVy3gz/l7/wCA/wBa6mvGxX8VnbS+BBXA/F//AJE2f/rm38q76uB+L3/ImXH/AFzb+VbZb/vlP1Jrfw2fKVFFFfuqPnQooopgFFFFAHtvwD/5bf8AXdf5V1P7QH/Ikwf9dv8ACuW+AfSb/ruv8q6n4/f8iTB/12/wr8xxX/JQx/xHrQ/3VnzZDDJPKI4lLOegFeg+H/A0FrBFqGvSiJDyI271V+HmhiXUDqV0ubeEFvxrQ1/WJNVvW3MRChwi+grl4z4rr4Ot9QwbtK15S7eXqdnD2Qyz2vJSly0o7tbt9i9LqeiWreXZ6erIP4vWgajol9C0d/ZqjN8u8DoK5zqMCivyWGY4+E+dVpX33Z+pPgjI3T5PY/O7v947XfBAitDfaM32iA8kDqtcSUKkhhgivTPD2q/YLwRzkm2k4dTXOeO9DXStW8yDmGb51xX7FwZxVUzCTwWMfvpXT7r/ADPyviDI6mS4pQTvTl8L/Rno/wADv+QV/wBvI/nXZ/F8kaRb4OMtziuN+B3/ACCf+3kfzrtfi3E02lQBMZBycnFY4/8A5HLv3ZwVP9yn6HmviWJru+tUj/hhGf1rm5Y/KkZD2NdNr832a8iZuMwDH61y7sXcse5r8VrX9vPtd/mfuvDXN/ZdDtyobRRRUH0YVa03/kJQY/viq1WNOBOow4ODvGDSezMa6vSl6M9T8NgDxNff76/zFd94xYr4Wu2HBC5FedaDHcx+NZgPmgYKXb/azXovjAbvC90CdoK4ye1fqKtfD27R/JH85YV/uJLzf5s8K1GXzfCcbkfMZjn9a5qumv49ng+PDBgJzyO/Jrma+GzpJZjWt/Mz9b4E/wCRJT9X+YUUUV5B9wFBooNNAdcwU+EdP3tg+bwB9TXr9l/yKU3+8P6V4tH83h20GW4mGc9O9e02X/Ipzf7w/pX6NlytlND1f5n88Y5WzjGf4v0PN9YZYlu4xFnnO4HjmuUFdZrpZvtI6oDwT61ylfEcQXWYzv5fkfbcB8v9nTt/PIKKKK8A+/CiikpgaukA+XMQMnH6V6noKR/8ITeLGcpt6mvL9DxtmycKVwa9Q0e3MHge9izuOzjFff8ADsr4KUf76PxTiKLWfVpW05F+p5vrbxrZiKNQQrY3A8VgVs6rEV0+Evw3pWKBivlc4t9fq27n23A//IjpfP8ANi0UUV5J9qFFFFMR0mmjFpZgD/lpnNdn48VvsmkumPlhfr9BXI6QkSWdqZNxJkyMV2HjxkGmaaGJDGJsH8BX3+Ff/CLGy6T/AFPwHGpxzPE31/ex/wDSonDeGLdXv5rmUgLGCce9c5fWz+I/F7QcGJTgkeldPokO3TLuUHknAqpotumk29xqLR5Zm4+tTwtilleBxWYPfSMfUOMKlXMM/jg6KvJJJfPcwfEvgv8AsaNpoGLKMHHpV7wHql+boRsjSRLxk9K6EXcHiDT2TUCyuG5IHBFRSX9jotobbTUDSsPvAYxXdU40o4zJZYbGx56zurW09TgfCebSx/1SMNE1afRLuaPiabTWs9uES5xyFFc/oUoikn/deZ8hx7VlyytLIXkJLHqTWtotvP5c80Y+QIc1+a4CkqNWCv8AaX5n7BmeF+p5FWpSnzPler9D17wQ4k0dmXA+YZx9K6WuZ8ClDohKADkZA+ldNX6nif40j80wn+7w9AooornOoKKKKAPGvGv/ACUaD/eb/wBBNOpvjX/ko0H+83/oJp2DWlVPmv5H5FxX/v8A8inq/wDyB7r/AHKvaEP+JBZ/9cx/OqOscaPdf9c6n8L3tve+HrU2sgkCJtbHY104HSTPX4R/hVfVGtijFcnrWravZX7XCbY7SJ1UI3WXJrc1K7uk0YTWEO+eRRtH93Ir0ua7sfbNGhijFchZa3qxhvbMhbm7gICyr05IH6UWWt6sbe8siFubuEgCRegzn+WKn2iHynX4oxXM6Hr00f2yLWZkP2XBMw6cjOP1ra07V7LVVY2M6ybeuO1UpJis0XMUYrmNe1bUv7Taz0kqpt4/NkJ7jriqUviTUtT8tNK2xvFEZJs85IOMVLqK4+U7TFGK5DVPF88Gh2VxbW7NLcFQzAfKnOK6yBjJbxu3VlBNUpJ7CaaH4oxS0VQjqPBn/L1/wH+tdTXL+Df+Xr/gP9a6ivGxP8VnbS+BBXBfF3/kTLj/AK5t/Ku9rgvi7/yJlx/1zb+Vb5d/vdP1RNb+Gz5RooNFfuq2PnQooopgFFFFAHt3wC+7P/13H8q6n4+jPgq3H/Tf/CuW+AX3Z/8AruP5V1/xyj83wtZIe9yP6V+X4x2z9PzPVTthJM8zsD/ZPgeNE3LLcHrjqP8AJrD6103iN1h0bT7VRwife/KuZAxX5DnGJeKzGvWfWT/A/X+B8NGjktOSVnO8n82FLSUV5Z9qA45rd8QRnWfBEc4Rd9v8pPc1hV0GhRNdaPqMLfMqx7gvvXsZHinhMzo1r2tJL5PQ+G45waxGUTqLenaSN74HjGkn/r5H867P4uKzaTbhc53dq5H4LIUsZFIxi66fjXY/FiUw6VAwGfmr9Sxzbzi67n4/Uf8AsMmux5V4tz9tt/mz+5GPbrWBW/4sKm9t9h/5ZDOO3WsCvxmrf2kr93+Z+98Of8ijD/4V+QUUUVke8FWtNJGpQEdd4qrVrSyBqkGf74pS+FmNf+FL0Z6dobTt43uPL/1A27z/ALWa9C8Ygt4WuwO6/wBK4bw7j/hKL7H99f5iu78Wvs8M3T43bVzg96/UE9cPbtH8kfzhhVbDy9X+bPB76Mx+EkDn5hMePzrm66nVLgXHhVH2BMzHgfjXLV8Jm6azCsn/ADM/XeBL/wBh0793+YUUUV5Z9wFBoo60xM62OUDwrZqVxmXGfXk17DZ/8inN9R/SvIoLb7R4e0qIuFDz/ePbk16/aLt8LzjP8Q/pX6JlrX9l0F5v8z+esdH/AIWMZL+9+h5jq6ukN15jbgXODnOPauYzXUa5FGrXaRvuTO78e9csvSvi+IXfMZ/L8j7TgKKjls1/fkLRRRXz5+gBSGlpO4poRraNkQzgema9U0eX7R4KvHT5coAPwFeV6KjyLPs6KuTXqOgDzPA13nCZTH0r7/h231KXfnR+LcROf9vVovbkX6nm2sqyafEHbc2euc1hVt6uFSxRA+4qxGfWsSvlM4/3+r6n2/BKtklJev5sKKKK8o+zCiikPvTEdJoRBt4POLFfN+UDsa7bx2R9h0tWHBhfnHTgVxWlRstrZkjhpeDXa+O0LWeltgkLC+fyFff4Vr+xYu/Sf6n4Djv+RniVt+9j+aOU0ZlGksvl4JkOWPfrT760S50qUR9VOcA9qSxbydHTzSCu4kAduau2bwzNj/lm4+avEw+FqT4fq1GtpXR42aZpHB8ZrEdItJ/cN0+JLSzhihjUb1Bbeua5jxFJbPqpFqAAowcDHNdbKYJLh4VOF2bVOelcTf6fcWcxM6kKxOGPevnKlB0pw5oOLt16tn6HwXjI47G4rEzr8zcmlG/T0KdbOhXEircRhjsKElfWsYdfWuk0P7M2l3ClT5204Iq6btVh6r8z7TiNxWVVk1dcrPVPBAQaKfLGBkfyrpK5rwMytoh2NuwQD+VdLX6fiP4rPyjC29hC3YKKKKwOkKKKKAPHvGIz8R4M/wB5v/QTU+0VD4w/5KPb/wC83/oJqeveoRTjdr+rH49xbf8AtD5Io6wB/Y11/wBc6m8PQxxaBaCJAgMeTjuai1j/AJA11/1zqzoI/wCJBZf9c/61UklPQ9jg+/savqjl/Fl/b3fnWktrILyFgbdgpIY1tPq/2HREaaF5pIo1EqqOnFbL28MkgkeNS69GI6UphjJb5B83XjrWfK73Pu7nB6dfRafqOoXenWsr2Dgb12kfMTyfyo02+i0/Ur+8061lfT3C712n7xzk13aW0McflpGoU9QBQltDHGY0jUIeqgdankY7nlmpW8lwt7Jokci2RYO4Knk4rW8P2d7dXtxLY3IRygBbYQK71LeGNCkcahD1UCligigXEKKg9hihU9bhzaWOFu3n0TWbiXUd0zXFttV0UnLAdP1qjYbtAkkkvIpMXUDFMKTyT0r0iSCKbHmor45GRnFJJbxS48yNW29MjOKPZhzHGXNlLF8PbaJoz5u9CRjkfOK7G1GLOHP9wVI0aOu1lBX0IpwAA4q1GzJbuJijFLRViOn8Hf8AL1/wH+tdPXMeD/8Al6/4D/Wunrx8T/FZ2U/hQVwfxc/5Eu5/65t/Ku8rg/i5/wAiXc/9c2/lW+Xf73T9UKt/DZ8oUUUV+6rY+cCiiimAUUUUAe3/AAC+7P8A9d1/lXZfGsFvDdjgbv8AShx+Vcd8Af8AVz/9dx/Ku7+La79FsAP+fn/CvynMpcuduXZ/oelJ2wUn5HlXi9h9rtlUYAgU4/Cuerc8VSbtSVc5KRgGsOvxapPnnKXdv8z964ep+zyrDxt9lBRRRWZ7oVt+GY2mup41OA0Zz+VYlb/g/H9stuP/ACyb/wBBNXTk4TjPs1+Z4fEFP2uVYiHeLOs+EKBEuVHa8P8A6FXTfF7/AJA8Gf71c78Jxzd/9fp/9CrqfimgfTIAV3c9MV+xYmV8zUn/AFofz/e2XN+R5H4oiEd5DtOd0QP0rDre8VIqX0IXqYhn61g1+P1XepJ+b/M/f+HXfKcP/hX5BRRRWR7oVY0//kI2/wDviq5qey4voP8AfFD2Mq38OXoz0/QplTx5NAUJZgpDenNeieMf+RVvP9w/yrz3w6PM8YzyAZICjO3pz616J4tTzPDN0uQMrjJ7V+oJr/Z/8Mf0P5uwd/q8795fmzwa8WMeDYzn5/PPH4mucHSuq1KJYvBqRMys6znBB7c1zMMTTSBEr4TOpJ5jXf8AeZ+u8CtLI6b83+YykqWaEwSFCckelRV5W59wmmroKcoBYBjgU2pbaB7mdY4xuLHoKL2V2KTSV2dkWNn4f0mZAHKzZwenU161and4XmJ7sP6V5XqEP2LQ9Mjuo22CQcA4PevVLQA+F5cdMj+lfoWVNPKaEvN/mfzviJc2aYt3+0/yPMtVEX+m+WTsDHGfXvXLfSus1i3WKG8KyBxvJyPU9q5IV8bxDJPMalvL8j7ngOMo5bPmVvfkLRRRXgH34UlLSU0JmroMjJcOEJBKkZr1bRwP+EMvPNbI28mvLNChLpcMvBVDzXp/h4eZ4Fug7dVOSa+94ea+pyt/Oj8W4if/AAv1f8C/U811byv7PUI3IY7c9xWFW3rcAS3jCkMVONwPWsUqVPzDFfLZv/v9X1PuOCv+RJSv5/mwoooryj7IKQ0tFNCZ0mil5LW2RQSqy5ruPGtuLlNHiLbQ0Tj9BXFaUpit7NkOA0nIBrs/G7FV0cqSD5L4/IV+kZVR9tllOldLmU/1P50zzESoYnHVo7xmn9zRw+s6naadJBaySDAODj0q9JdwxWLzwupVV3Aqa8r1+a4m1eY3GQQ3Aq3oI1LUHNpbO/lN989cCvv6fD1DD5dTpTn7sVr2Z8Pi8HLFy+tzn70nd/Mkk8Vak2oPJCzFN3Ydq73QNSTxDpTQXCbm6cjoar2Wm6Rp3k2jQrNO/BYdq2bfT4NNmY2y7OcnHFfI5zmuUZ3RqYGhD34JuLt27Hr1I4vInQx/s3TTas+680crJEmnXjCVclTwKt6Nc7rm4ZAF3qcLTfENu/8AbB2At5vIFXdH0uW2guJZ49pCEqT24r8owtlWp8291+Z++5xiadbIqla/xwbX3HpXw98v+w5PKJPz859a6yuZ8C262+isEOdzBia6av1LFNOtKx+aYFOOGgn2QUUUVznYFFFFAHj/AIx/5KPb/Vv/AEE1PUPjEf8AFxrf6t/6Camr38P8H9dj8e4u/wCRh8kUtY/5A11/1zq1oX/IAsv+uX9aq6x/yBbr/rnVvQR/xT9l/wBcv605/Ej2ODv4NX1RexRinYoxSPuhuKMU7H+c0Y+n50gG4oxTsZ6c0YpgNxRinYHrRgetIBuKMU7FGKYDcUYp2KMUAdL4P/5ev+A/1rpq5rwgMfaf+A/1rpa8jEfxWddP4UFcJ8XP+RKuf+ubfyru64T4uf8AIlXP/XNv5Vvl3+90/VCrfw2fJ1LRRX7qtj50KKKKYgooooA9w+AP+ruP+u6/yrvvitn+yLAjtc/4VwXwB/1Vx/13H8q9C+JrhbLTAT9656evAr8kzjTN5fP8j0an+4y9DxnxNOk+rsUXbgYNY9aniQhvEF1sGBvP86y6/F0rI/ofLIcmCox7RX5BRRRQeiFa/hp9urjnGUYfoayK1fDiB9aiDDIOf5UpO0bnnZpHmwNWP91/kehfDCFIZLkIcg3ef1rrPiFEJrWAM4QDnJrnfh/CkN5dLH0+1c/nW18TrqS10yF4lDEnGDX6y5OpiYNdV+h/ODV8skvI8g8VoE1QAMG+UcisPOOtd+uhW2s6qJZ+Io4xu29zVbxJ4Rt7bTzeafwq9VNfj9TF0qdd0Zb3f5n7XkedYOnhsNgpS99wX5HE0UHiiuk+1QVPZErfQkddwqCp7L/j+h/3xSezMqv8OXoz0vw3duPHEluuNkiqzfXNemeKQG8O3IbO0jBxXmGgIF+IhII5jXj05r07xYWHhq6KHDBeK/UGlbD2/lj+h/N2DlehO/eX5s8M1qOKPw6qxMSPOOM9e9HhXTEubOeZxkqODUOpuW8NxiYsZjMT+prT8DXiRNLZ3GE8wd+9fm/EnNDFV+X+Y/TOFpThw3Bw7v8AM5C+XbfSj0NV63vFmnpY6q5j+65yKwT04rjozVSmpI/QsPUVSlGa7DkjaWQIgyzHAArvvDfhn+zbcanqGF2clT2FZfg7Q3uLr7bcJiGHnkdTW34z1JoNHEUbeXJM2SvfFebi60qtRYem99z5fM81lUx9PLKG8vifZB4v1KHUbSxktRiPzQBx9a9Lsx/xS0v1H9K8hMD3HhvSYoRmRpuB68mvX7RSvhmUdwR/Sv1TJoxhk9CnHo3+Z+SVqKo5lioLZS/Q8v1WN0ivVcEHzCcexNcsK6nXXcy3hn4kzjHt2rl6+S4hTWYzv5fkfdcB8qy2aj/PLcKKKK+fPvwpD1paSmhM29A5S4XPVa9O0SPHga7SPJ+Q4zXlOio/mSSLnCr1B6V654fZh4QuGdt525JHevvOHVy4ObX8yPxfiKzz6qv7i/U85eGIWCNdcbCRg+tc7dzCa4ZlGBngVt600q28vOEeUnGelc6K+VzeL/tGtJ9z7LgqlGGUU3F9/wA2LgjqKKnmuvNhSPaBt7jvVcV5q1PtIttaoWkzzV6fTHgs1nZhhu1UiuMEgjNKLT2JjOM1ozptN5t7L/roK7fxsu6LSflJPlvz6cCuM8PQKk9p53+rY559a7zxWu+LSlbgbDn9K/SctxEcPllOq1dRUn+Z/OfEFKVSpjoxesppfikeTy+BLi/1Jrq5fZAx61cSez8PwyWuloGkIw0hFT6xq93qGoizttyIp2hV71p23hKNGjkkbeVG5wfWvks24tx+YU40a8uWD+yuva7Ptsq4ZwGTxhiMxnzStdJ7aLt1MbQdNmu7sXcuRHGdxY9zXTLuuZmOMKOSfQVzGta9NZ6pHZWSCONm5x0ravRdyWMNtZ5Dzgb2HaunEZdVyXBRxtWVqlVWiuy6nyWYYyXGOb0cOlyUIa69kU7S/t7nxIzXYBRTtjrW1KYtcPDEMROhyfQVyuqaPc6LOjSMGzyGBrX0/UjqFnOpB81IiM+vFfJ0KfNiqVWDvqvzP1DOcPRjlk50neCg1+B6P4BaVtDbzhjD4X6V1Nc74LBGiAHrxn8q6Kv1vEO9WTPz7CR5cPBXvogooorA6gooooA8f8ayJF8Q7cyMFGW6/wC6aX7XB/z1X86ofEo/8Vza4/vN/wCgmsfJ9a+swGGVWjzXPyrifDqpjuZvobWsXUB0W6xICfLPerHhK+W/8O2zLFJHsXafMXGfpXJ6kT/Zlxz/AA123h8D/hHrHt+6HSoxlH2U1Y9XhaiqdKol3Rznia2v7RpdTOoSRlJFEEKtgN7Ed63r2G91DQ4ktpfImlRd79xxzXOaqNWuPF2+60ua4sLfHkhPuk+prZ1nUNVGkTjTNPkM+0BB+Fecnqz7ToYthBqT3moaRaX8ksceP37sSynPIz9KLCHUnvL/AEi0v5JY02/v3YllznIzSWb6tY+G7iOx0idb1/vO/Vyep60WbavYeGZ47HSZ1vn5Z3HLE9T1qRjtN1dtAudRhurqS7t7fG1mOSWIHH863tF8RQ6s8kUqGCaMZKN6etco+i3l/wCGXtjpk8U6uJJC/WU/n71e0Lw59quJ2urGeyQqBl3O5v1pxlJMLIl1yS61PXJ7S0vHgS1g80GNsbjjP9KzYr++8RN5SXclubWEsTGSNzA45q/qGlX2ialJJpVnJeR3EHlHByVOMZP51Vj0jVNBfzLWya6NzCVcJ/AxPepd7grDtV1zV5PCun3NphQ7L50ucH72K7m2Ja1iZjklASa5m50O6XwPb6fGm6dWRmUf7wNdPboUtYlYYKqAa1je+pLY/FGKWirJOk8I/wDLz/wH+tdLXN+Ev+Xn/gP9a6SvJxH8VnXT+EK4T4t/8iTdf9c2/lXd1wvxa/5Em6/65t/Kt8u/3un6oVb+Gz5Oooor92R86FFFFMQUUUUAe4/AAfurj/ruP5V3XxR/1ugZ/wCftv8A0GuG+AH+puf+u4/lXc/FNctoR4+W6c8/7tfkubu2bTflL/0lndiP+RfL+up5D4pKnxFdbOm7+tY4rR19xJrlyw6Fz/Os6vxWPwo/o7L1bCU/8K/IKKKKZ2hWjoLMutW+3j5qzq0vD/8AyHbb/fpS+FnHjtcLUX91/kep+BedSvCP+fr/ANmNbHxMQyadCo65rJ8ITRr4jvLaNeROGJ/E1sfEl2j0+Fk+9niv1ZXVem1/KvyP5qk+bLJtdmcJaa7BpN+1pfjakij5gOlQ+J/FFnJprWmnnfu6mub8UZ/tJWLZZkBPtWLX4/UwVOdd1pb3Z+05HkeCqUMNjmvf5I/kAOaK6fwfoEWszSG4yI06mrXiXwcLCE3Vg2+JT8w9KcsXSVX2Tep9HPNsLTxX1WcrT7HHVNZgm9hA7sKhqa0YrdxEdQwrrezPRq/A/RnpXhu2dfHjSMwIWNQeeevpXp/igZ8PXIHpXlvho7viBuLZZolyPxr1PxMM6BcD2r9Ov7uH/wAMf0P5rwv+71PWX5s8M1azlXT4BksWkOF/Os5rDVPtSzQW8gC/xAGuw042y3UCXzAnzMLmtS9vJVvGiiVURe2OtfmWa1a9TNqtCEbttn0eXcWUshyHDyqQck7/AJnnmqR6lqbKWt5GKjGdpq54e8KyTXJm1NTHBHyQeM+1dabqYEj5V57KKkslW9uGWeTgc7RxmuPE0cThaF6qUV5as55+J6xcPqeX0bSlom9kIJwu2KzTyoFOdoFcL4wv1vNaYxyeYiDb9DWl4l1u7t3e2gh8iLON3c1x7EsSTyTU0KcG1UjGyt835s+04N4dxeBlPH4+rz1Kn3JHeaS3lWmiSyttQTdSenWvWYf+RenI/vf4V4zbSxf8I3YC53lRNxjtya9ltOfDcmOmR/Sv07LopZZQfm/zPgsZJ/2ri4PpJ/keVawWlW7djlhIRk+gNczXV67ELee9hBzzvz9c1yvevj+ImnmM7dl+R9pwFGUcuqKX88gooor58/QAooooEaujMQk6jPKmvVPDb+V4HnfGcKTivKtHfCzD1U16x4X58Fy56bTX6Bw/b+z3/jPxLiC/+sda38kf1PL9ZZpbVpSf9ZITg9RWEOK6TXEBtZyMArOQB+Vc4qsxCqMnPAr5TOG/r9XS2p95waksngr31f5sWJC8oX1OK3bvwrdRWq3EPzqRnHesmKCaO5j3RsPm7iu3vLt4rdTziNOVFebh8LicbiYUMM1d9zPiviN5DRhXS5ru1u5z+gWH9ozqt5NiKNuUat2/0q1uS1qLcIVHyMvFZM9o2o2ovNNOxs5eMHk+9bCO6C2lnGH2/MCamWAqxxksPUupJPTs1+Z8hn/EE5YTD5tgqto8yvH13uZ2gwP9tt42BcIx4bpXdeK2ZIdKZF3EKePXpXNWiqviOPHygglQOh4roPGFx5MekgclkbH5CvusPTqYjJo04rVxlp958lm9aE6eJrxejmnf5pmG2n21pI1+keJG6f7JqfTS8zzEkkbSSadYTNLaSiZQwzwKmkZYdPZ4l2luOK/MoV5Uqc8HOF6jklf06GuIeKzCFLNp1P3cItW+R514pt5ItQhuRFvRWycCuh0jXf7Qs/8ARjgIMHPas/xBqkNlp7rIVeRhwDXI+FNWeDVij/LFM34V/RDyqGZ5ND63T1hHQ/PcPLEToSqUW4tbNdUeg6haf2hZGNyzSKMpWJokM8c13GfkIjIbP0rpLrdCvmRjCquarx3Vjd2dxdRlY5GjKvz14r8oWB561PFYON6bkk0vstPqfouUZ/WwmV4jKMxfvcr5X6rY9F8Gjboo5z05/CuhrnvBgxoi4II4wR9K6GvtMR/Fkenhv4EfQKKKKwOgKKKKAPEfiX/yPNr/ALzf+gmsetn4l/8AI8Wv+83/AKCaxq+3yv8A3c/M+I/98+RV1L/kGXH+7XceHx/xTtj/ANchXD6l/wAgy4/3a7nw9/yLtj/1yFY5l8cT0uGlenU9UaGKMU6ivLPrBuKKdRRqA2inUUBYbijFOooAbijFOopANxRinUUwOi8J/wDLz/wH+tdHXOeFP+Xn/gP9a6OvJxH8RnXT+EK4X4tf8iTdf9c2/lXdVw3xa/5Ei7/65t/Kt8v/AN7p+qJrfAz5Nooor92R84FFFFMAooooA9z/AGf/APUXP/Xcfyrt/iopI0MgZAunJ/75riP2f/8Aj3uf+u4/lXffE0kQ6SR2uH/9Br8izp2zWo/KX/pLO3Eu2Xy+X5o8S1tt2s3BA25Y8VQq9q7btXuG55Y9ao1+MrY/pHBaYamv7q/IKKKKDrCtDRJPL1q2Y8YcVn1a01S+pQKvXeOppPVHPiknQmn2f5HqnhCcSeOLpBGgOVO8dT1roviSyJpcZkBPpjsa5TwPv/4Tq58wYICj+ddb8Riw02PYgc+hGcV+rr+JRf8AdX5H8yRsstqL1/M8W8TFTqCbe6DOaxq2fExU6iu05+QZ9qxq/LJ/G/V/mf0Nw9/yKcP/AIF+R6B4Gk36PcwwNiYnOK1Lh3tNFu3vzhGUgZ7mue+Hs6Q3UwxmQjitjxRLJqvh2QJwYWyQPSvma8L4xxeza1PzjOcHh3xXRc5tN7dmeascsxHTNS2TBLyFmGQGHFQ1JbAtcR7eu7ivpHsfr9RLkZ6Z4Ylhk8dMQhEhjUg9gM16l4jBOhzgeleT+ExIPHSiRdpEK/zNeteIMnRpdvXtX6Z9jD/4Yn83Ye3sKiXeX5s8L8SO9paxFMiRZMhh260lh41/drHqUHmY48xetJ4wfEKRnJbdkmuR7c1+dY+HPjKknvzPU/S+E8pweY8N0aWKpqS139T06C6ttSj3WMgcd1J5FPht3WfdHkMP0rzW0vLiymEtrIUYehroE17XL22ZYk4YYLKOawqYmryuNa010b6f5nyWaeFdJYtVsDV5IX1T6ehb8c6tb3PlWkYVpI/vuPWuN61JPHKsrfaN27PJNW9Is2u7sBRkDtXPThChSsnoj9lwOGp5fg40ou6itzqrO2N3ouk2hwvmTcMR06169bLt8PSr6MB/KvMoIjBfaNEwxtl4/WvT4f8AkBTf73+FfouWTcsrodtfzPw3EyjPMcVUXWT/ACPK/E6Ml9dqmSMAn9a5XtXWeIpH+2XhkUhz8uAe3ODXJ9DivkuIf+RhL0R9vwO74Cp/jkFGe1FdL4c0a3vbeV7vjjjPavnKlSNKPNI+0xFeNCHPI5n2o71Z1CBLW8eOM7lB4NVu+a0TUkmjSM+eKkupp6PGT5rA8hTxXrvhohvB8pVdo29K8k0NiJJ1GP8AVnOfpXq/ht/L8ETOBkhScV97w828FNdpo/G+Ily8QVJd4L9TzjW2YWdyBwPPP9Kp+GRbHVF+0sB/dz60usyM8TPuIEjlinoaqaZpN3fyL5CkDP3/AEr5XP0vrtbmdtT6vhdQnkC5pcqblr82drd3dlHsSQLNNu4KDoKkuLQPmSMqVcfdJ5p9n4fhtNLdywaZVyWNcHc6ldi8Y+a3yNwM189lOKrYXEe2wktY9+p5eK4awefYRYaNRtQ2dzeikGk323PliQ8ZrWvvJuBG6ygsRyBWBr4e/wBAguWU+fwcirOj6RcTSQys7MQnQ9BX6vP6tisJSzyrP2dSKae3vH4hisHVwleplfNze9bruupqhhbavZSSdNu3j15q18Spnhu/DoRiNwcEDv8AdrPNnMNTtopWGS+4E/yq58T5EjvfDZfp8/8A7LXdw1P21ChN6t8/6n0WIw7oYPE0Hqo6fkWNOiX7C0jk4zkis++1MPCxLeXCvQGnW94Vt5IC2AwyK5jxcWj0JypIJPUV8XkGTQxefVPrK2lofPYnM51cDhsFQlaL0ZzXiy7jvI98TAgNjg1j22rC3tggjG9DlWrPUyS/uxliT0q3Zad59+lrcHyi3TNf0hGjTp0vZy1SOqFCnQo8knoj1Pwx4gg1yxFvMVMzLhvUVxvi63utDv5IIGZYJTzjpXS6F4bTQhJeRvvCry1V/Gh+1+H0uZQGdsYb0r8ly/F4PA8TywuC1p1N10UvI6oUJ1sEsdL3oKSir9n/AJM9e8AnPheD/cX+VdPXMeAP+RWt/wDcX+VdPUYv/eJ+p9vR/hx9AooorlNQooooA8S+Jf8AyPFr/vN/6CaxqvfF6/GneLrSZl3AuwwP901x3/CWR/8APE197lFGpPDJxR+eZ/hatXF80F0NnUv+Qbcf7td34eH/ABTlj/1yFeSX3imOSxmQQtllwOa9R8G3NzdeGbRru2NuVTCgkHcPXiubNqU6dSPMj0OH6NSjTnzq2pssypjcQM9M96dXH+K7e8GvaXcfaitt56qIl7nI611GoRzy6dKlpII5mTCue1eIpO7PpyYOjKSGBA6kHpR5ibN+4bfXNef6NaajJ4P1SCK9ImSZt8rdcYHSo57a/m+GsJhvGjWLPmN/E9L2jsHKeigg8g8djS1xOpeJ5tNg07T7KSOOd7cO0k3TGK1tM8WWV7oyzzzJDOyH5D3OO1PnTBpm39ohMvliRd/93PNL9ohMnliVd/8AdzzXmzRLHpo19Gb7Yb3bvz1G7pSwQr/ZsGvZb7a93gvntzx+lT7R7D5T0ouoYKWAY9BTq4qSC9i+JFrLc3ReOWLKRDoowa7bFXGV0S9BKKXFGKoDofCv/Lz/AMB/rXRVz3hb/l4/4D/WuhrysR/EZ1U/hCuG+LP/ACJF3/1zb+VdzXD/ABZ/5Ee7/wCubfyrfL/97p+qJrfw2fJlFFFfuy2PnAooopgFFFFAHun7P/8Ax73P/Xcfyr0P4jQmW104hgNkzHnv8teefs/f8e11/wBdx/KvRviGhezsQDg+a3/oNfjXETtj6zvbR/8ApLO3Eu2Ab9PzR4RrO4atPuxneao1b1TP9pTbjuO881Ur8gj8KP6Twn+7w9EFFFFM6Qq5pKeZq1uucZcVTq1pwzqUABx845FD2Zz4lXoz9H+R6r4MjVPF9yCuWBUb89etdF8SGlXTYfJGSTgj2rJ8HRwjV2IJ87cAQe4rovGy7raLjNfp1Kqn7Kf91fkfzBGTjldRv+9+Z4d4qQJqSAD+AZrDrb8WGQ6y/mEdOAO1YlfmV7tvzZ/RuQq2VYdf3V+Rf0bUH0/VI5VOBnB+lenyadFdaTcSxN+6li3DB715FXXaHq10dHktkkYjbjBNeVj6Ep2qQdmjzM+yWnjK1HFLSdN3ucnKnlyuvocU+y5vIQODuHNJchhcPu655pbMkXsJHXeMV6d7xPppfwn6foeneGY9vjhvNLGRUUDjjGa9O8RjOhXAzt46+led+GlV/FbSs+H2qNmPevRfEQzoc/0r9Lg708P/AIYn82YOX+z1G+8vzZ4Z4mjxoqHdvPmHc351x9db4qEg0+POQA54/OuS7V8Fj9MZV/xM/YuBXfIaL9fzAcNXpXg4B9Mw8Gc8A4rhNEtFv9Vggk4VmGfpXpaXD2YEVphIo+AB3ryMTha2M/cUVd7nJxtxLhslowhWTbk+hyfjPTmtWDmMKCaZ4FgWbUWBGT2rY8cXAutBt5Gx5m7Bqn8O722t75458BiMgmvPvUWBkpLVaHo4HMPruRrE018SN3WpUstU0yVlLbJuVXr3r0a3OdBlPqw/pXn+u7H1XTHSQIDP9/sOtegwf8gOX/eH9K/Ucl/5E2Gv5/mfkNNv61Xv/M/yPNPEdpNPqd55SZ+Rf61iaV4ZudQ3PIRFGvVmrsjsfxLdrO2I/LGR+dVZpesMA2wqe3evms4o4jG5x9WoLW0bvsa4XiyGQZZVjvNzdkcxf+HJbJTNA4nRTyR2rStNTt20eQEiN1XBxWnaykHZsyshwVPeqN54VxeOwO2NuQorwM4wLy/EfVsRK9tU+59PwxxVDiDDN4n3ZwfTY5DDz3BCguzHitF/Dl+tuJRGSO4Hauw0/wAN29sfP2gMF+Umsi68U/Ynnt4V8znG9q85YqVV2orY+pnm2JrYqNDB07xXxPsZelWUsMk3mAqRGRj8K9T8PbofBMxZfmCH5a86sLmS60+4mkQ7uz+lejeHpGHgqaQ/OwQ/jX6Tw3zfUZSf86PznPqsp59VjNWagv1OC+z2VzBJNe5VjJu2jt7VqQXkUVuDaosVugyT61Qhia5EjGL5ncsVPapLj7NBp08N44QY+VVPWvE4gp5c5VpNt1ebRX0Pj8lxWaY/FUsBeXsFLWy87k+l6tLqyXMeRHEuQGrk9S0e6tb0qE83echk5qTR9RGn35UL5kDnDAeldVLKLXbPatviboD2NfJ0KLp1XGFlfa5+rZtmlbhmoqsaXNQa1tuinFGRp8MUyEOF5DCtizl+zmGFTgk/Nx2rOSY3V2rSgAMeRW4LCGa4EqSAMBgYNdmdYvlwdDBPSybfqz844cq0Mfm2JzKq1q9P+GKd4UfxVag42bf15qz8QtOt7yLRpLk4MIYrz9KzNRtnGuWsScvuB/Cr3xHjV5dCZ2YIockDv92v07hiMvqGF5JWdn+v5nHmUm8NjFHS0t++qMKSIMBg4wK5rxhdFtL8oDK5wPeukNzG0gjBDZHaotRGlwKsGoxFmA3AYrahi6GR4h4zGx96o9Et7Lqz43JMpxWY4lQwkHJxV30OV8IeHALN9RvYSdoygIqlp1kdW8XM6IVjjbJ9q6621iO7mNoqiGEqVj/+vVfQ9Eu9JuLy5uGQRtna2etdWH4wVbD4vE1JqMvsJ9j7PGcN43CY2FKrFv2iW2yu9V8jXmuba8tTplk5Zu7DvTda0aSLwp9nuCpZRlTXO2DzWupRThSqmQcn613Os3CT2jpJgApkGvyXBYitSzejVi7tyu/v1PuuK8LRyrJ44Oivc6eqOu8DLs8Nwr6KB+ldJXO+CmLaEu5duMAe9dFX6lif40vU8nDS5qMX5BRRRXOdAUUUUAfPPx0/5GKz/wCujfyrzOvTPjp/yMVn/wBdG/lXmdfqfDv+5fM+XzH+MRzn/R2r6C8Of8izp/8A1xFfPs//AB7tX0H4c/5FnT/+uIrz+I/4kPRnRl/wSItc0qXUpLJoWAEEwkbPcA1di+1tcTLMqCHGEIPJ4q1ijFfLWPUMDStCnstN1C3lZS1y7MmD0yMVEvh65Hg1tJLL5xB+bPFdJilpcqC5xWseErqaazurWG3uJoYRE6TgFfrz9K1dM8M2semxpqVpbPcAclYxhfpXQUmKXIr3C7OJHhTUzdCyZ4xpQn84c/N1zjFEXhTVFu0tGkj/ALLSbzRz83fjH4129FHIguYl5o80/iaz1BGHlQR7SO56/wCNbVLijFNKwCUUYoxTEdD4X/5ePwroK5/wv/y8f8B/rXQV5lf+Izqp/CFcR8WP+RHvP+ubfyrt64j4sf8AIjXn/XNv5Vvl/wDvVP1RNX4GfJVLRRX7stj5wKKKKYBRRRQB7r+z9/x63X/Xcfyr0rx6m6zsznG2Rj/47Xmv7P3/AB63f/Xcfyr0j4gOFsLRT0aRh+lfi/Ev+/VvR/kdeLdsufy/9KR4FqrB9UnIAA3npVSrepoqalMq9AxqpX5HH4Uf0thbewh6L8gooopnQFWdOJGoQ7Rk7hgVWqxYf8hCHJx8w5FKXwswxH8GXo/yPX/Bsrya+4ePZjbzXVeMBm3THpXOeDRjUNu/PIOMV0XjI4tUPTiv0aL5qNPl/k/Q/lu6/sqq33l+Z4Z4vZTrsgUYwMGsywszfXQiXqa0/Fyga0zD+IZqDw3dpaaoryYx05r80bcaTa3P6NyubjlFKVPX3F+Rn3du9pcNE4wQa6HwxLG4e2RC0rjjiqHiS4S51RnjxjHarPg2+jstcUzEAMMZPY1jVvUw3NbW1zoxUpzwLqW95K9ihrOl3lhdubqJkUng44qla7jdxbPvbhivWb2yF1p119u2vEylkc9q8rt1EerIqHIEmAanCYn28Hdao8zI84nmmDlOpTcJRummemeFVuP+EwPnRnhF3PjjOa9P14Z0eYe1ee+HHZ/FLZZcBV4zya9C11iukSsBkgcCv1am26VC6+yj8Owlnh6tu8vzZ4b4wkP2FU6jf/jXGCu08Wv5umiRhhjL0/OuRtbdrqcIn418DjU4YqrzfzM/XuA5JcP0b9L/AJj9Pufsl9FMc4VgTivS7Ro9QhWWzkVlYcjdyK8yurf7PMYyc4rs/BuqWOmWbm8PLdOa86riK2GXt8O/e2Fxhw3hc9w0HVveO1jO8Y38bypYwHIiOWPvXMwyvBIHjYqw6EVo+ILq3vNVkltR8rGqNvbtdXUcMYyzsBV0v4d5ddz6XKsFRy/AU8PTVoxXU7a3AvtL0lbyYhXm+Zj/AA9a9ftwF0GQA5AIx+leX3el7LfS9L8wRyM4OcV6hAu3QZF9CB/Kv0HK5RllWHaemv5n4ZUqKrmOKlFaczsedXE4uNZupR8ozsx64prSFG2oKnFoBqN2gOW3F+nSue17xANJiPy5fPFdtCjPGY+rQoO0ly69bWPyHM8PXrYpu17tm9Gx8+PPGDW7d6lHBarlA74wK4Hw9rn9qQlpPlcHipfEviVdNtQMhpiMKo7V87nXCWMzLOadKWsbbno5Tj6+W0qmHpK1RnUw6nPPdCOYARsMAelcFrFubbVpozjhuMVs+DNRn1OMSzoflOSx9KyNcnSfV52iyV3da+ZzjKaeUZlLC0tkkfsnhtiMXWjX+sy5mnuamiXXmaVcW5HCqTxXpHh4sngaYp94IcV5boKB45huIJxjFew6OuPDcgKBfkHH4V9Rw6uTBz85ox4gpRWeVZL+VHnaz3S6FdSpzMx+Y+lcbM80jZmZjn1r0XS0D3F7DKmUaQ8VBquiwTLAscaqEf5yPSvjs8xEaGb1otbv9Du4LzKhhcH7GS6yuzP8NaDE9iZ7z5d/3c10UlhbQ2uxseUDke9Zd+6krHBJsijAAxUAvjOohMwdUPIrjWQZniqSxaXuvX0R8bnPHEMVXrYdxvHZdiDVLy2sHeSUhE/ho0fWFv8AbLayZ+bBGa474gTSebFtY+We2avfD6NI7fzBLli3IPav1qvkGEpcLfWKkbzUdz4CNHlaxMJNNy6bbnoTDf4mtWLYIQ8evBqf4jRbtL05x1VW/pVSG4WbxLbhCOFOfyNbPjS3afT7HGNoQ5z+FebkuLhgMuw1apokvzdv1PqsTzVcuxDhr736o8q06/8AseZbk5+fGfSul1BIda08+VGDOFyr+tee30Vzd6w2nW4wofOa9R8O6d9msUZzkquMnvXoeIVLCwwNPEzf7y/u69zh4fr4rBZhCphXq9ZL+6cPY6TdXszRwr+8Q9K6uw042VqF1eRpiT8sW7pVqdlgaS6t4lR42+fb/EKmtbq2vwsxjc+ue1fjc67VT9/H3ettz9hzLN8fmuCVXKrau13umtyLVNOs5dH82ACMKcisjXmuIvDazxH5tmMkdBiuqjh+2QsjqI4v4R61k3lvHfaPcWrcCMkV08O4yGHzOlOesVLr2Z4We0quIyV08RLmnTab/U7jwMxfw1AzHJKjJ/CujrmPAUok8OqqqQIzt59q6ev1zFfxpepx4aanRjKOzQUUUVznQFFFFAHz18df+Risv+ujfyrzI16d8df+Rgsv+ujfyrzGv1Phz/cvmfMZj/GI5/8Aj3avoXw3/wAixp//AFxFfPU//Hu1fQ3hsf8AFMaf/wBcRXn8R/xIejOjLvgkaWKMVmXniHTbC8W1ublUlbHyk9M1enuobe1a5mkVYlG4uTxivlbqx6diXFGKzLTxFpl7byzwXKFIRlznpRaeItMvreWaC5QpCMuc9B60cyCzNPFGKoabrlhq5cWMyyFDhgDWh06ine4CYoxSM6ojO5AVRkn0rNsvEemX88kNtcozxglhnsKVwNPFGKzLLxFpl/PJDb3KM6DJGe3rS2XiDTdRu2trS4V5V7A9aOZAaWKMUuKMUxG94Y/5ePw/rW/WB4Z/5ePw/rW/Xl1/4jOqn8IVxHxY/wCRGvP+ubfyrt64j4r/APIi3v8A1zb+VdGX/wC9U/VE1fgZ8l9qKO1Ffuy2PnAooopgFFFFAHu37Pv/AB6Xf/Xcfyr07xsAbS1DDOXbHt8teZfs+/8AHnd/9dx/KvTPHHFlbZ/vt/6DX4hxYm8TXSdtH+R3V3bA384/+lI+fdVQx6rcKzbiHPP41Tq3qjBtUnK9N5/nVSvyqHwq5/SmH/gw9EFFKRjpSUzcKmtF3XkYJwNw5qGrFjg30ORn5hx60PZmNf8AhS9Gey+DEjXUl8tsnC5ro/GWPsaZ9K5zwdbNFrRc/KrKuB6V0XjRttkv0r9CpO9CnyO/ufofy5LTLK9+8vzPD/GCPHrRDgYx8uPSsFW2tkda3fF7GTVwxOfl9Kwa/Oqd+XU/pDIrPK6Fv5V+Q93aRtzdaapKsCpwR3pKeilnAx1NWexokWm1a+eDyWuZDH025p2kqsmpRK4yS3GabfWn2YI394UzTCf7Tgx/fFZ2jyPlOSSg6MnBW0Z6b4ZgZPHbMzZxGBj8a9N1840Wc/7Nec+GxjxvKSp5RcEnpz6V6N4gJXRZyBkhe9fp6d4Yf/DE/nHBf7vU16y/NnifiW1M2i+anVZOR+dYnhO3afWVXblR972Fbms3Zh0J9+PMaU8D8al8MWK2Wm/amYB7kdfQV8BmFCdbH1cPT3lKyPtcozmOTcGrEVdbXS822VvG+h29ukd7ZHKscNiufntni0tGfjPIr0M2UGpWhs5j1O5DXI+LVjtRHarwycV4vJVwtf6lV+KL/A+g4Q4g/tnA023efXyOVrQ0K5S11q3lk+6rDNUzEwj344qPpgjrXbKKnFx7n6BUiqsHDvoeoazduuuaZcQp52JAVVe/FemwHOiyEjB3D+leO2t7Jbabo96370xy8j869jtzv0V29SD/ACr73LIqOU4eK6XX4n86RoPDYzE0L3akzhb29aLxBdrsA2xjafXOa88+IiEiB1UgHk13Wsu/9uXaxKC6xgjj61iX9smpeG91wAZOVy3Uc0YLF/UuKYSe0opP7jw8VQX9n1MUkv3dX52aPMbXVZ7SAxQttz3FVpZ5bqUGZy7E9TT7+zezumjcdDxSWMJnvYkAzlhxX7ilT5faI8tKml7RHsPhK2+xeGzKDuYJwBXJ3Tb7qRiNpJ5FegaJbpZeH2eQEhU5rgLx1kvJHXoWr+U85xKxWdYmonfU/YfDyny5c5NWu2/xNrRlEWi3EjcbnUA4+teu6Xz4fk/65r/KvJ5LkW3hi2+TIeQA16xpRz4dc+sS/wAq+uyGLWWKbW8n+h87mdb22dYl9rL8DgrWeaO41BkyzBjgVDcalcWnh/zLlGByS2e9NN0unpqU5fO2Q4rP/tB9V0R3nB2shIDVjXyN4vOHjKiXs4yinfrofCVs6WEy2pgYxd5yb5l0V9jhtX8X3dzI8cPyRg8YrU8F33nXEnnOXd/U1xV1gXUoHTca6rwJYtJfGbkBa/cMVhMPDBSpqKSseRjKFGlg5cqtoTfEDmaJR/COtM8AzOtxNH/ARU3jlhGxUgbietP+HMMc00iMBljjNeVjJU6GQ1HJe6oswpRc8uUEt7Hd6NJG+v2/UNg49+DXX+LWVdJtQepXAH5VydjbC18W28YXgA4Ppwa6PxqP9F0456Kf6V+XuhHEZbQjHVNJ/c7nuUp1MLktZzXvJtfjY4Cy0tYLyW6f7znjNdZEIobGFZG69s96yLWISSNJKcqvQZpUn/0jz5BhE+6Ca+Q4ozOrnOIVKEdIaer6I8zJcTPAP6zJ+9NWXkurLxtg0M8DPtkkBK5qxoFu9rA0d35bDsQa8317x3NFrEiWwDovGa6bw7dXGtWMcjOYy3PB6Vrm3A+NwOWfXK81aybXVH1WA4kxGDo/VKdG8JPTXXU3RcvPrPlRjEaelWtQNtBayICu9uTWRbM+nXzM3zZ4JqjqF0gE93NnauTjNfPYPIcXiMXTp0eqTT6M8iXEEqWGqUpXc5yaafQ9N8KoqaV8nQkGtyue8FSmfQUlKbA2CBnNdDX6vKM4Plqbrf1PssErYaC8kFFFFSdYUUUUAeNfFTwdfeKdYjfT544mt5Du39+PpXCf8Km8Qf8AP7a/mf8ACvcNUH/E0uP9+qmK+gw2MxFCmo05NI8+pRpzleSPGH+EniB0K/bbXn3P+FeoeGbPUdP0aG01Vo3khG1TGeCK18UUq2JrYhp1ZN2HCnGCtFWPOr2CKeLxJPOgaaM/IT1XG7GK09dd38CWYcnDhA/uMVb1Twf9v1N54bpoYZyPtEQ/jx/k1oXeg/bbGWyml/0YoFiUfwYHWuOzNThPE0Udn4ge3s1EcMsUQkVOB9+jxNFHZ+IBb2aiOGWGMSKnAxiuptfBSC2uRqN011cTgKJT/CAcj9aS08FKLe5GpXLXU8yhFl/ugdKVmVc5vX9QHhnVPtGnoEzZAsFHf5easeG/El8b2SGJp9SVovM+ZQCG9BW3b+B0a3uF1O5a6kmXYrn+Bew/QVc0Lw7caZcNNeXpuTt2IMYCihJ3FdHJW3iHV73RdajutOmjTMn70/8ALPrxUXiCKOwg0p7BQjyW2HKdSCec16M+l2r2dxbeWBHcZ8wDvnrWDYeClguHa/umuowhjhQ/8s1JzTcWCZy+sRJY2OjyWShJJIWDlerDB61ftIIba58OSW6BZJE+cr1b7vWtmw8FLBdM17dNcxKhSBD/AMswf/10/SfCB0/Ulubi7aeOHIt4z/AD/kUrO4XOlIoxS0Yrcg3fDX/Lx+Fb1YXhr/lv+FbteZX/AIjOmHwhXE/Ff/kRb3/rm38q7auK+K3/ACIt7/1yb+Vb4D/eqfqiavwM+Se1FFFfuy2PnAooopgFFFFAHu/7Pn/Hlef9dh/KvTfG/wDx5W3++3/oNeZfs+f8eV5/12X+VemeN2ItLUDHLP1/3a/DOMavsa+Im+3/AAD0pwU8IovvH/0pHz5qmP7UuMf3z/Oqg61Yv8/2hPuOTvNQV+Xx+FH9I0FanFeSA4HSkoopmwGp7Ngl5CzDIDCoKmtF3XkQzj5hQ9mZVtab9Ge3+EmL3yE9CqkVueMgpsl3ZxjtWJ4RXbdqD1CqM+tbnjDiyX6V97g5x+r0nHbl/Q/lyXu5biL95fmeF+KyBqSgDnbzWDXpuv8AhMX9n9tRwW25rzeeB4LhoiMspxgV+c0MRTrXUejZ/QfDOJpVMsowg9YxSf3C2gRruMS/dJ5rovEVnbWtrbzWoAPtXN+TMOTGw/CpJr2aaFIpWJVOlXOm5TjJPRHs1KbqVYyjLRbiXF3JchfM/hHFO05tupQn/bFVwGZvlBNXNJhabU4VVSfnGRWskowZpV5Y0ZejPS/DVy7+PnhbGBGDkfWvTtcwdImyMjHSvNfD1p5fxAeUEY8sDH416Xrf/IJm+lfpaUVTw6j/ACxP5rwbj9WquPeX5s8T1/TZryNILdPvy8e3Wtuw0aWz0uKzuTudRlTTn3R2z3MYLGFufasu18Yx3mqGG7+RCNqt6Gvy7MMVi4ZnOpS05JNn1OV4OeacLRwyjzRSbt1v5GjDmKQBTkociq+saNZa3cCaSQxSAc8cVbhhiuNxinTcPugN1qresyYHRu9fX0cPhOI8RdytVitWtn95+R4HMM64Vq89KLgp/wAy7HE6/ptxptwI5DuhP3HHQ1jnpXpF3YrrGkvCwG9RuQ+9edTRtDK8bjDKcEV89iMPLB4ieGqbx/Fdz+nOD+IoZ9lyrvSa0kvM6eG4D+G7GNThlm59+TXudpzoJ/D+leHWUKnw/aGRgAZcrn6mvcrUf8SM/h/SvuMuaeV0bd3+Z+XY2yznGW/m/Q89upI5PG11a5O9oh/WszWRHAqwIQuCcrU94xj+Jc7jtEtcb451O4t9cUA4Uc4Fejg8u9vxFCa6U0/mfCZhUnOFTBwejnzP5IzvFNplFnVenWm+DtMlm1BbkqPLT1qrqHiH7bbiEJgHGTXoPgy1t5LC3WHgHljX2md5jPKcpnVmtUmeU1XjQjQtrJ2Ohu7lLPwzJuGC4+UetecyxusnzKRnkV6T4i0tb9YFEwSGP7wrEc6IZktpGDPH90kjJr+ZcBTxOMc61Gm5OTbdlsfuGU55lfD+Cp4etV962pk3rMPC9oucnzh2969j0n/kXG/65L/6DXl/iK5jOmxpbxrGokAx616hpef+Eabb18pcflX6llMKkMopKpGz5np8z4ujjqWPx+JxNHWMnp9x5pJp73DX0f3kac5/SrF1ZwW+lvbRId6x8j8Kt2t6ls919pwzmQ/dqjrFy9vJFfwndEw2yL7V8tm+cYynmfsbfu4SUvV6bni5TlOFzKrVpOf72Slyp9Hc8Zv0Md9KrDB3niun8NaqlnpzEHaVHPvVvxV4ZE8X9p6bh0YZcDqK4je8YK5K+or+hMDjMPm+DjVou6Z52Iwrmnh6ytKLs0aGt6vLqt4Xf7o6V03w6u47e5cH72c1w3Wuo8DyqmqPGRkuvBrPPsJGtlNahH+VmWIiqOH9xfDZ/cesy+bc69bS2f3xy30qb4lai1jcaCuQEkDhs/8AAay9HumGvQ2+4GR+eewp3xhRnm8OhBnl/wD2WvzfhnCzhTw9CuukvusztoT+t5ZiKk1pJ3/IpSO0cg2H5XHSrOpo0Ph4yRJmVlOKrKhfyieyirpkd4kiY8A4r4vFUJYLMliEvcVS7Xc+OwNaPLOEtXbT7zy7SNAu9T1QyzRlVD5fcOOtd5eX1vo2nGys8eYy4JU/do8R3i6eBZ2qhSygs471yxYtySSfeteIeJ62e2gly0l07+p+/cK8Ir93mGN1lvGK2R2WkXx1DTgGOXhGCO5FVPEORok+wdRWTod1LbagoiBIk4I9RXT3tuk8TxSL8h4IPau7hTGwpydGp9h3Xo9z8/8AEfJ4Zbm0MZT+GprbzR6B4G/5Fi2/3F/lXR1heEVVNFREGFXAFbte1XkpVZSXc+lws1UoQkuqQUUUVidAUUUUAUJtHtJ5mlkDbmOThqZ/YNl/df8A76rSoq/aTXUnlXYzf7Bsv7r/APfVH9g2X91/++q0qKftJ9w5Y9jN/sGy/uv/AN9Uf2DZf3X/AO+q0qKPaz7hyrsZv9g2X91/++qP7Bsv7r/99VpUUe0n3Dlj2M3+wbL0f/vqj+wbL+6//fVaVFHtJ9w5Y9jN/sGy9H/76o/sGy9H/wC+q0qKPaT7hyx7Gb/YNl/df/vqj+wbL+6//fVaVFHtJ9w5Y9jN/sGy/uv/AN9Uf2DZf3X/AO+q0qKPaT7hyx7Fa0sILLd5AYbuuTmrNFFQ227srYK4r4rf8iLe/wDXJv5V2tcX8Vf+REvv+uTfyrswH+9U/VGdX4GfJHenCN3yVUkewroPDHhK48Qylx+7t1+85rs0j8P6FEIoIvtUo4csODX6TnPFmX5RJUqj5p9l09Tx8HgcZmE3TwdNza37L5nl4tpzgCNuenFK1pcL96Jh+FepnxHpwA2aRB8vQ+1KviTTmP77SoSPYdK+V/4iThr/AMCR7n+p+e2v7KP/AIEeTtE6Y3KRn1FNr1e4Tw1q48owtAzdGxgCuY8R+B5dLtxd2b+dAehHYV9Jk/GWW5pUVFNwm9k9Lng4zA47L5JY2k4X69PvPSP2fP8AjxvP+uy/yr0rxwM2toT0V3J/75rzb9n0Ysb0HqJh/KvUPGGfsMWFDct1/wB2vzfjmSUsS3/Wx3U6ftKEY92vzR8537BtRnKjA3n+dV6sX5B1CfaMDeePxquK/OI/Cj+jKPwL0QUUUUzUKltji7iz03j+dRVLbDN1F/vj+dD2M6ivBo9z8Ig/aUOMLtWtvxgpewAAzxzWL4UP+nKoGAETitvxcQLEZz07V9fllRTwMJeTP5ir04rBYiP96X5nETa9bJC1mXAKLgg157He20HiUzzqHhD5I9eaf4tH2fXpPKc5IycGsEnPJ5NfA4fCQhzSX2j934fy6nSwFNr7UV+R3GveJNMkaEWVug4+bArKm060voRcW5CsT92uc5rf8MaXcahdeYrFYIiCxPSm6EcNTvGVrHfWo0svw7qqdlHVtnXaX4YsbTw89zdqDLtzk/SuY8MKknikiMDZuOK6PxbrAttD+zr96b5Rj0rivDszxa3AYzyWrjw0as6NSpN77HjZVVrY7AVcVJ6Tvb0PUfD4Q+OJ+T5m0cbeOvrXomrgnTZAOvauB8PYfxU7Yw2Bmu71x/L0edwM7Vziv12hP2lDDtfyxPxbLH/s1RPo5fmzzyyMpW4VUDLvIcGvMfEcMVvrs6W42oDwB2r0NbiSTRLqS2+VmJ6VyNx4Rv57Fr6RsytyEPUivznMHGlm1dydtdj7rw/nSwuC+sVatoydrPvcytDvZ49QRY2bk+tejXkayRxGQDeyVxfgywEmusLlceSCSD7V2dxIbqYuPlVeFFdmTyrrNoywy2WvoeP4s4zCqhDD2996or6flJSAehOK8/8AECbNbufdyePrXpEaqkyYHLHmuA8UWc8OsSvJGQrNke9enxJVjPNez5TDwfqLlxCb3aNCyja50OxjjVnYTcBe3WvdLQY0Ug+39K8X8JIz2A3KwKSDbXtUH/IHb6j+le9llbny6nHs3+YseuXO8ZD+9f70eXXn/JTpwO8S8Vw3xCtpv7W80xnZ0ziu91WBo/G93docMkQx+tZcc0OvWtxa3yqZBnaTXSs8p5Zn1Oc1eLhGL8rnzP8AZNfFUa+Oo6+zlqvKx5IQa6fw34ufR1WKQZQHg+lQXXhS6VZ5IRu8tsYFYU1vLA22ZCp96/Xq1PCZlRdCpaUXujxOajiY2T2+873UviArRutuCzMOCe1Yfh/TrzXNX+0lyFDbmbNc1x2r0PwRiHQ7yUMN23j2r53M6eG4cympVwcFFpaGuGwKqV40YvWbSberN7xBZH+ybfyP3n7xc47Yr1XShjw8Qf8Ankv/AKDXkmnzPJobNKWY+YMV69pn/IBP/XNf5V+cZVi6uJy2Mqzu1J/ofU08tp5Vj6+DpfDG35HicWrzr4q1K1MW+FJScgdOKu6Zqv8AasN5BcQsiKDt4rdv7Ox0m6uru4jCmVycd2rKmvLSe3MWlqFmm4+lYZ1xJleJpVcNCjeVkubpdb/ccGUcNZhWzCGYUockea977JPV/MytI1MWtw1tP81s5KkHtWF4z8Pi1kF9aRjyH5OOldR/wi4EaiW5CTdSDWnaaJLfaNJZ3jJIFGFAPNeTw1nlXJsVGpO6oy30dvVH1nFtPLceni8FUTrQ0klu/wDNnimK2vCkrR69CF/iOK1L/wAB3sV8UtxujJP4Vo6P4KutPukurg7WVuBX7niM9y2rh5KNaLclpqfmOJqw9hJyTtbszrtJtXHjm1m/h2EfoatfF+5W1l8PSSfd+fP/AI7Ro0jN4mtQ4OcH+Rqh8ef+PHRPo/8A7LXyeUSnXxOHVVWdmvwZ6GWxjUyiUFt/wSaxmjurdXj5GBT7ljHCzAZ284rB8GXccmjKhky69a3IUeVJAvzqc59q4OI6NLC03VktIST9dT8/p0JQxUqS80ZWpbNY00XEBG+E4I9a5zGM9jXR2FjPY6k6oN9vMeVPbNY2pW/2bUJIxjGeAK/PM+wdHC4vmw7vTmuZfqf0n4d508bgXg5u7pfka3hm0Ike8fACDCk+tWdV1uDTmAuz/rDyas2cBh02GLG3jcfesfxPp7alpZZFG+M19JwtgqFKrCVdXdVP5JbH5Rxpm8c2zuVGo/3dN8q9erPZvCjpLosckX3GUEflW3XP+CUKeGLVW6hFB/Kugr0K8VCpKMdkfaYeKjRjFbJIKKKKxNgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK4/4nIJPBd2pGQUPT6V2FcV8T75bTw2sbLu89xH9M8V14K/1iFu5z4mXJRlLyPIrkx6N4btbaxzE065cDrXNk5PPWt/xbIG1GFF4VIlH6CsCvgsbXniMVUrTerb/ADP1/hPA08HlFFQWsldvu2FGaKK5Ln1Ng+ldD4evPtSSaZdNmOZSF3djXPVc0pzHq1sR/wA9B/OqjUlSkqkNHF3XyPKzjA0sfgalCqrppno3wUs/sM+qQDotyMH14rv/ABpE0ljBsYrhmzjv8tct4Ant4PE19aIMPIVkAx2wK6zxeSLa2x6v/wCg19nxTiHXwlSvJfFGL++x+BYV3w8V2aX3SR856guNRn/3zVerOof8hK4/66H+dVq+Ij8KP6Opfw427Id5bFdwXI9ackLSRllGcda67wvoY1LRrjK5OMg1TstN2W93Cww655rleKhzSit0cTx8OacFvFnNdDUlt/x9Rf74/nTHXbIwPY0+1IF5ETyN44/Gut/Cd037jfke7eFoit8j9jGnetfxiM2A9hWP4UBN8rAnaUT8K2fGLFdOGDivpMm/5FkfRn8z4xL6piNLay/M8H8Wvu16Xj7vH1rE6Vu+MAP7cbAxxWLEhllVF6scCvmKTXImf0JkzSy2g/7q/ItWel3F5gxodmeT6V6JbWa6VpsNtGoCuAXYfxGpLOyt9K8KyxMoNwYtxNZ3h3U31exa3k5mh+76kV5ccV7Wp7SS9yL/AKZ+d8YVsRnOVVvqUtKb1t1sYHjaV21RI2+4qDaKxtIkMWqwMvXeK6TxxbMi2szD5iuDmuY0/nUYMf3xXbRcZUNNtT7fIpxqZJSaVvc2+R7F4ZR28RPKQdpA5r0HUQDZsDyCRmuH8L7v7TfB+TjPNdjr8nk6HcyDPyITwfav0jB3lh6C8kfhGVfwaj/vS/NnlV9ctYaPftHgEykD86miujNp1rMzclOTWRA7X+gXeASrMx+Y5I5qK9mfTvCClFZ3Reo5r52eFhW4m9hNJ80rP5ovEwVXhLmp6TVTf5mkNMT+1F1C2bG4YkUenrV54mh+ZDvjboa878H+Lr241YW84YhjgZ7V1F3rz6TrphuhutHwdvpXXmGCxPCmZ3ilKnNbdfT5GUMvr8XYb6piH/tFGOj/AJl/mbjLvAwcEd6bcTxtGBewRz4+7uHNMiu7G6g8y1u0255VjgisrU/EVnYthUaVwOpHGaMXmWSY/lrVqblPts/RnzeUcLcU4bFOlhYuD6u9kb9tboscAt4ghkfOBxXokIxpTfUV5NoWqyaisMsjhG3Y9AOa9Zh50t/qK6cnhy4PmSsnJtLtqfU4ejXw+YYijiZc042Tfd2PO9XZE8RXzSLkCEfyNcnoUTTayzKPkUkt7Cun8Qbv7cv1TqYh29jWX4UspJhdHojAqWr57iWUaeP5puytE+lyGahlOOlFXbbVvkctdeKP7L124j2+ZCWp3iCXTdQ0P7Wq7ZWGRgVV8WeGDZzNd2bCSPPz855qkdWsm8Mi0K/vwetfu2XwwmJo0sZhHzaJNrrbufkVXB+zqRcYtST1X+aOb+ld54BuoJLO6sZsb5BxmuJhtZrlsW8bMfYV3fhbw3/ZcQ1LUSYyBlQTilxdWwSymrTxU7XWne/Q9zD+2eIgsNfnurWOm8vyNCWEAB45cEfjXqemD/iRn/rmv8q8hguzdWtxLgnMoI4969e0w/8AEjPb92v8q/Jci93K1f8Amf6H12LhOOcYjn3938jy3x750l6OoiU9K5SylMN9DIpxtYGuv8f3StcLAmd2cn3rnbLQLy6KHAjDcqWOM18JzJ81+7P1PBV6NDLouu1BNW1KvjdtSgv4rqKV9rKNqr24qDwxca/FqCyyiQRP1LV2s1ihtrddQAYqec89KvSTFLJ2tIo3CD5Vxmv0aXF1KjklKg8Nz3XK21ppofgMculisyrYSjOMWpaNve+qsU55kaYGVnAfghabYCVLy4tHm8yELvXceRWMPE8ysRPbRnB7r0qzoF091qNzLKvLpwK+CxLwsuSWGpuEr663W/Q++oZFm2Dy/FLMpxqQ5Hay1uaGhXay+No4C+PLUkDPXrUXx5/48dE+j/8AstY/hcef8VGD5woOAD7Gun+MVg1//YSY+Qb9x/75r94w0VQzDDt/y3/8lZ+f4CMcPlEm9tzzPwXb3k1wWicrD/FXqNmi2NqXY8n1rH0nSI7a3jis48E4yRV++WXzhFINoA/OvzjjbNpZtjo5dRa5b69/mfOU8Ry8+OcHZaRNCCzSVPte8BAcnNcFrUscusSNCcrurrLySX/hF5kjDAqe1cGT83vX59R9u5OFaV+TRLsfvPAWAw8cG8bS0dTc71JI3sYJQc/u8HFRGSApyy4btmsXQtSi2/ZLxtqY+VvQ1bfQnll8uG5BZjlcHPFfpPD2aYCGGVHFz5JQ2b6o/I+LuFcZhs2qVYQbhN8yaV/U9a8MgjSVBAA4xitisjw3GYtJjjY5KgA/lWvXoTnGpJzg7pn2OFjyUIRfZBRRRUHQFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXE/E2BZ9HtwyF8SggD6121c54yXdYQjbu+cdqqNZUL1X0T/I87M7/VJ27HgXiPd/ahD44UAY+lZNbHikKuvTBOgxn8qx6/Poy5483c/f8AKYezwFGPaK/IKKKKZ6YVLbMUuo2U4IYc1HSpxIp96fQiavFo9f8AAMTjxQJnH34fvEdeldx4rx9gRiMkbsf981z3gmMC4gbgHyxx+Aro/FPOlkDuG/lX0Oa1lWyW8v5UvxR/OmWwtUnB9Kj/APSj5t1EH+0Z8/8APQ/zpgtZjHv2HFTSjOquDz+8PX611PlJ5MW9cKRzXylSt7OMUfv1TEOjGKt0Ol8BIf7BKhcE9c1hzwCLxRdwyP8ALJkjFIniRNHgMcBxntmsO31Zr/xEkshHJxk15FLD1HUqVbaM+eoYKt7etiHtJGdf2gt9QmRvXIqpbHF5Fj++P51teKrZotQWRTkSCsaJGju4t4/iH869qlLmpJ+R9JRqe0oKV90e7+FJt10iAD7iHIra8WRCWwwWC4GeayvCqoWhkAwTGvFani1wmncgnPHFfTZPP/hLT7KR/PONp8tGvGfeX5ng/jAMNcfeMDHHvVXw7aNda3bjblNwJNb2v6He6p4k2QoSpA+b0FdpoHhmx0G0Rrgq0xGcmviMRjqdGgktZM/YYZjSw2U06cdZOCtb0KYi+03FxA3dNoFZnhfw1d2WsG4DYTnNdM0cX9sAw85GTWtJHsVREAo714dTGShFxgrKSPzLIcdWwOExFB+9eT/E87+JAzLHt4VRXFacCdSg28ncOK9i8Q6DFrVptAAkA715lc6DeaJqUckqHYH4Ir2MtxNOVD2V9UfqWS4+hUwfsIuzSeh6j4Vb/ibFWGDgZFdxrEAudLmgY4Ei7SfrXF+F9z6mHY8lRXc6gu6zYetfqmDnbCUZLpFH4hlkWqdaL/nl+Z43e2zaRpUlpbHcxmK/UHJrO/tH7DAbe6i3xN94NW74ue30i6tTJ0Mm5h61Lq0ml3NpHM8KNA6Z3+lfntXEYjMMxdWjBuUm2rb6H2WFng8oySnHMYXpybvp3ZzFlqPhuykaW3hKP15A61zetam2q6g054Xoo9q09U8OqIftmlSfaISeQOStYstjcwoHlgdVPcrXoYjEYitV/wBqm3KOlpbo+14cy3JMOnjMt+35/gaPhi3W71dVlYhF+YjPWurvzp+uWtxaoqLNDkrtHPFcj4anFvrcZk4VvlJ9K6Cz0Saw8RXt5uJt5FYiuvB4PBYijiJ15cs4xTgfK8aZhj8Dm+FlQk1F9Fs3fVCabcfZdKtgR92XbwPc17dbc6QffFeGGMtpdq2dqm56+vJr3O1H/Eo/AV9RlkUsspNdW/zPl8Ur5vi5dXJfkecas0n/AAl15uX92Ihz68GmaLBNaaFdSRnMkhJRfxpNSud/xAuLRx+7aNcmpLy4Nnfw28KPs7HtXznEuX18bmMaNOy9xS17I8/B53HKqFfmjzN1Fp5HGLdM00kV3kxyHDg9qz38HpDqHnSHdYt8ystdB4g01v7aC2sR/fDdgetaOj2VxaROuoSKY9pCxE5NHD3EWLyyap0byjLeP6o+q4uy7AYvBLMYVFTm43/xf8EhgtbDStEku9NRC5+X5hmsNbqa+uUjuZDsJxjsK6O+0mVdI2WwCxu24g1yKqUuACeQ1eTmeK+t4yrL2jnrpc9bgXCUo5RCq4pTd9ba+R2cVh9isGSJQ8bMGya9M0p/N0EnGPkAx+FefEZ8NsWODt4/Ku38Ljd4RUE9VNfQcOOVTKpczv7zX4Hx2Y1JPPK0X/KjldT0AX+vxzy48lOvvVe9n0+S+NtDKRKvCqOgxW9cuIkmjXnap6/SvOtLuLX+2ppLxyhJIVvSvzqjKosROTdlF7L1PoPqsM7y+cKqcvZrRLuYfjTWL23ulgjdlQdDml8J+K/JJgvZjk9Ce9bfjPSrWfRWuVdZCoyrivNtMtZLu/jjhBLbhX9OZOsszfJFFRXIlZ6dep+NxwsqUJUq0XCpB79bnoniKKPzop4VAEgycd6g0hrmK9ilwyxA4ZgO1XtYj2w2Vq2DKoAPrWyup20Fxb2Oxc7Blcda/A3g6tavUo4SPMo8z+SP2t8Qwy7IcM8cnJ1FZ97dypoWlyWvxLS4wTHKhIP4Gui+KjD7PpKbwjMGwfyoEyWfiKzcj9264Ht1rL+NSkroRB+6JGPv92v1jIMXPMPqtWe/Lb7kz80qU4fUa9GD0T09LpozbnUp9L0+0MeMk5ZvWtqRxq2lpfRcyKPmArAs1XxFoKJbkGZOntW9p1vJpegmO4XDPxxX5Bn1Gphs1nFaVFPT0bPooRy7FcJKM0lKF0+9y/p8UdxokkeAWYcivOtWsvsGoPGQQM5Fdlau9p88TY5yR61S8S2Q1O3F5bpmRB84xzUYnK8bltb2mI1jU1v5nV4f8TYWolgX7rS+8wrDQpr7TZLqI/MnQVHpEsw1i3Xe4YOAeenNbml3S2ujxAnYVPziqL23l+JYJIz8krBgw706mFrwoe3qL3JXt8j7fC8QU8ZmWKy2a1pq689D2vRQRZ8+38q0azdEcPYgj2H6VpV+gYLl+rU+TayPiJW5nYKKKK6xBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVg+KgWs4gGZSX6it6sLxQcWsXGctivOzSbhgqsl2ZhiIqVNpnz54mUrr9wGO4huvrWTWp4kwNeuQDnDVl18dR/hR9D99wath6fovyCiiitDrCnKcMv1ptOQ/vF+tMmWx7x4KAM8Lc58pf5Cuh8UD/iWZ9A38q53wXFtuYHL9YRhfwFdF4pz/ZnHo38q7atT2uQSv0Vv/Jj+fcLDkxVRP8A5+P8zwXTNKbUdelJyEWQ5P41seJpoLG1WGF/nAxVC01uPTjcxfdkLnnFc7e3kl7cM8jE88V4EaVSrVUpfCj9phQq166lPSMfxIXkaQ7nOTRE5ilV14INNo74r0tNj2bK1ju3jg1rR4pEG6VAAfauc1S3a11CHeMAMO3vWxoEr6ZZFphgP0Fa+p6YL3TEu9mMMD0rxI1fYVeV/D0Pm41vqtXkfwt6HfeFAGgt5FPBRa0fFrbNOzt3VS8KjFlb4HG1aueLyy6WSlfdZLFLK46dGfjGcPlpV3HzOH1LX4fD9uZ/L3SOPlzWL4b1a88R6zJNdP8Au4wSIwaz/HnzfZ2VjjZ0rlLO+ubBy1rKUJ64r4algoToykvidz9WynLoYjKITh8corXtoepz3g01pJZ5FE0hwiZ5xWhqN5IfDQnhf96oyMGvHJ766uZPMmmZm9SamGs34h8rz22YxjNKWVOTjK+qM8BwnDA0Y04Tu73bfW50Fv481KG8AlIZc4Oa79oYfEOjR3GAXxkfWvEySWya9H+HutP5LWkh3AdKjMcJGFNVaKs0d2b5dGlRVfDq0o9jsvDcTLqR3cYUD9a7W8/49z9RXJ+HwZNSuJM4VWxiup1J/LsJH/ujNfpmW8ywNJtfZR+LZfKPs6lTvKT/ABPBfiLezXOqlJCNkZIUCqfh+/8AtlrLpdy/yupEeexrY8Z2P9pXEU1oMu7EMoqXSvAnkCK4mmCyLhiuelfDfXYYKSn8Mou6XVO5+q1KuV5jkUaNRrlmtPX/AIc4fTdV1LwvrMmnOrSQs/3T35rp4fFi3s32a9tCIScYYdKu+JNCE9/HdQYMi9OOtclqdhq896IoYtoAyzAV+5YWGT8Q4aGLrwjzzjq9nc/nieIrYfEunCbhKD6NrVdTor7wlHM4udIlAOQ3lE9K60Ky+EXLKPtCR7Tn6VwenWevaVNG+8zI33gf4a7VL83mjTRrjzAnI/CvyjiXhurg4+2wtRVKafTdLzP0DKuLZ4+pRwWZWck1yytv6nP/AGdJNF0xJH25uMlgM9zXtdsMaXjr0ryawVBeaIkmNnncg9O9euJ/x4Nj1r6jLZN5XQXr+ZVa0sxxM/736HjPiCZk+K+wPtVkXPvXTReZLeM1/GBDH9xjxXLeJofM+LCtnG1Erp7+f7TCQnCxYB9683jWKnXwUYy5eaNm+yPBp1vYfXKnslOyWj/M5vxX4nSxuvKsIvMnbhWxyKztEstVvrj+0tSldI16rXTRaDFKTeyxKSBnJp1tekTG3i247pitqWYYbB4KWEyOipTivfm/xPmamLnXqwqZimlLp1t5LojH1nxM7ILW2TCqMbiOtc2hzMpPdq6jxdZwoFnjRQx4OK5eMZlUdtwr88ocsoc0Va+5/T2UQoU8FD2EbRsd67EeHQB32g/SvQtGjjj8PqkP3Ag/lXB3KLB4bh2H5sDAIrudDEieGR5+A+zJxX2vDN/7KlJfzs/IMbWjPOa6XRL9TkNYuXW9lSM9iD+VeaXORdOG67jXoN2wm1GQqcjJ5rg9Sx/ac+05G89K+axGHhQqrlVnJXd/U9zw7xU8RUxd3opaGhNHv8GXD5z2xWB4EhiF5PcupYxDgVvaJN50c9jJgpKvGexrE8PzrpPiWa0Z18tjjnvX6ZwtiJVchxWEpfHG7+TR8rxhhJYfOJue0+WXy6mtHefavEUc83A8wcHsM1cNo8fi43TfNG449ulZt/C9rqjFl2gvuXHpXXJHHd26TW5VmVRuXuOK+IyPMqOXV5qv8M4uPoz6LxAwVavl9DE4OPNGK2XZ2LF3N5upWIGMeYCKpfHWZoLXRSnBIkH/AKDV3QV83X4I5l3ryee3FZ/x5GbXRP8Agf8A7LX6LwtQjQnhqS2XM/vufBZfWlisDVr1PtNfhYyfBc0Wj6D/AGhIpOWxj3rq7ib+1baOe3uECdSpPSuQtbZ08Gwxk7mkYbQB161HbaXqu4xRJIoYdc8V+ZcVT9vndWvGVpRlZfI+5yPh7B5jkd8TLl5pNt3tdHRyXdmjFHu0yvpSW1/BNP5dvcAt0x0zWbD4WVIt17Od56KvNLcy2ugossdozsoz5npW+FrZrmU1QhLnv0lZL8TwMwynhDLk40ak3UWzi9n+QzxC7WtqFjTMkjgFcVLxJfafAfkeNdzAdulc3a6zL4k8SqH4iQ5APGa6C2WWfxBK0q4aJcD6Cvb4pwssvweGwU4pS1k7bXfREcJU6sKuKxlSTlKEHvu77X+R6/4ZYNpeV9a2Kw/CRJ0Ybk281uV6NKCp04wStZI9HBTdTDwnLdoKKKK0OsKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsbxJn7IhHY1s1la+m+0HOMc15mba4Gr6MTi5aI+cfEI/4nlyfVqzK0dectrt0W/vms6vkKX8KPofvWFVqEE+yCiiitDoClQfMPrSGlBximJ7Hu/ggh5LZl6eUB/Kui8VPs0o/Rv5VjeBo0On2siHHyAYrb8TRmTTwAM/e/lW9NyhkNRrz/8ASj8HlT5MbO/Wd/xPmq+O7UJj6uaZFGZXCitnX9HaxZpSOWYk1iKxXlTg1x0pqpTTift9CpGpSTgLIArYHbvTM4YYpc560lao6UtNTttEurLUrNILxgsidM12M97YHRBbxupbgYBrxpHZGBQ4PqK19Blnn1OOMszZYd68fFYBS/ec2i1PnMblal+859FrY948OLiyhx7Vc8SMq6dJu7pgVT0HMQSH0Ap/jJymkkqcV9zlFZPKoTj0TPxfNZpUa0vU8W8cTf6VBBjGxOffrXKYyeK6Xxv82sISD9wcms/TdGlv42eONjjpxXytGpGFJSeh+15G6eHymhrpyr8jLwfrTjE6xhmBANeheHPC1uYy+qx+Weihu9T+JvCaf2bmwAZh0ArleZUvaqn+JL4gwaxH1fm1W7ueaYra8Lag9jqqbP4jg1mXFhdWrETwOmO5Wiw3LfxFeu4V3VVGpTaPYr8lehJXumj3Tw27nVpRnhsHFdVrxA0O6LHaPLOT6cVx3hKQyakS3XaM11/iBS/h+8UdTEwH5V91lX+7UF5I/m7LdKVZdFKX5nmXhuW3fTpJ5B5rK7BCfqadfXkkKbASbi5bAUH7oqLwtEItOZHTIRmYj8TWRYah5+sXV7P8zK2FHoK/PuIqUXnGIcdUmexwjgZ46CxE3eFK/KvNs7GHSwkEKyLuZFySe9cPrfiO6sL+WIW8WM4BxV3UPHk0DeWoyMVx+raoupyeYVw/evPy+jiYyvU29T9AyvhmksROvi6UZc7vqi1aeKr+K8V5ZS0ROGX2rtrGOI3Ed3b8pOBx2ryuvRfAnn3unmJv+WLZQkV7U8ZPA0puD92StJHFxvw3QrYSGKw0VGpTaemml9h/iWL7NDY+XlT9ozx2616/bf8AILH0FeWeNVRUsAT8wlHQV6pbf8gsfQV9vlEubJMNJ+f5n57Qm54zEN91+SPEvFm8fFgFBnEa5rs1tobm2Uon7xvvVzniBR/wsu4YgELEvUV1djIn2Fpk649K8XxBqOUcJCK1tv6ni4Wo5ZjXpc2jWq7rcp6tcLb2/wBnhXa5XmvOLLWZtL8TP9skXy5D2PStnU9T1bUr64gt4doHAkPSvOdYt7u21FlvM+YTx7197wbw7TwuAnhcS4uVRapb6nhVa0sdjJVG/dWke6SPV9eZdY0+NtNKvgZcA1i6Xo8z3CTzJtRWGQ1YHhWHWUbz7ZmESnlSetenabcpdWwinjCSEcV+f8TcLVcljKeEfPT690fpWRcbxpRWX4prm2Uv8/Mi1yUhVjT/AFZQbceuK7zQIZIvC6xz8vs5rzXxRK9okXlYPzKp9q9U0450RT/0yX+VexkOH9hktFr7TbPmsDH2mY4qre+tkeVaf539uaiJSdiytsB9MVyl4wa/lOMAua6q01Ddr+oRlR8kxHPpisXW9Jmt7t5Yh5kTnIZR0rxeKqdSnmXNUVk4qx9b4d4nD062Kw8nable3kb2i6DZvaLfRy/Mo5BrzTxZJEniJmtjja3JFd74fnmtdNujMSsIXPzV5fq863Gqzyr91mNfV+GWFqOvias3eOiR5PGU5zzVU3LmUV+fQ9Bhng1nw3HOpzcQqAfwFVtGnmj1OIKxO5sFc9ayfAVxI11cWqjcskZHPatSxDQa3GMZKydK+Y4xy2GX5nUhTWklzL5n1nBmKlicsrYSs+bkva/ZrRHc6XFcnXoTaEDa3zg+mKj+MVl9un0CLtlyf/Hafo11MPGUMezbE6ksffBqf4rXqWV5oLSY2sXBOOn3a+5yL2kHhur5f0Z+UYeEqWWYhw35nZfMyBbIumWarkLFIBt7VNquss95HYWY5HUY7VZ03yruHIfgfMKwIYl/4SC4zKwldCE9q+BweDU8xxmIrR5pUuZpPuzplmH1jK8Hgeeybal94ura61qTa2TDcPvvVOy1qe4mFveATRycYNZV5DJBdOs2d4POabBMYJklHVTmvA9rN1PbX97e5+7Yfh3LaeXfVYU042/p3MzXoDo3iofZPl+YHaPrXoCSmdrc4CzXEBBOPas+90a01i6g1V50UINzqT1NEOofavEURh4jQbFHTivtuJM9wuOwOFdJ81SCu2+lujPy7h/JcXGtiFWg4xjCUX59vU9l8NALo8Sht20YJrWrE8KIU0nnu2a267adR1YKo+uo8Lf2EbroFFFFaHSFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWdrJxZnjI2n8K0a5zxnqqaRpAuJh+73YbjtXJjaVSth506SvJrQmVWNFe0lsj571v8A5DV13+c1Qrp/EVlps0T6lYXkR3HLRlxmuTN1B/z1X86+Mpxny8jTutGftWV5nhcbhYVqM01b0JaKi+1Qf89V/Oj7VB/z1X86vkn2PU9tS/mX3ktA61F9qg/56r+dbnh3S7PVWZ7i+iiiT72XANTO9OPNJHPiMbh8PTdSpJWR7T8PpUm0W1IB3KMV0OvMVt4sdNxzWB4DksXsjFp0iyJC20sDmtLxlLHFpsRllEQLn5icYrv+r1f7DnBKzlsuu5+J4jFYavXlXjK0G73PKPiJe27yLDDjdnnFcFXpmo6bod9Yz3El5GZI1z98V5nLJCsrBJUKg8fMK8DL1y0vZWd49z9V4fxuFxGFSw8rpdQopvnR/wDPRP8AvoUnnR/89E/76Fejys+h549yVEaRgqAknoBXQ+FdPuRrsJdGjXPUiqnhW+0611mNr+SPy89Sw4r1iK50ydQ8MtsMjKMHFeRmGKnSvTUN1ufL51nKwj9i46SW50+kIA27vuxmk8YQtNpDBO3JpdBdZLdSsiSHdyUYH+VT+JAjaXKH4G3ivucmpJ5XTguqZ+N5lFPDVU30Zwk+g2N80OoXS71VMYpqyxxMItMtVjBPzHHSo4r6RI0t2GUB5+lcz4j8XyJPLZ6cBGqkqzjvX5zPAYqnXdGottr7WOjJamP4npww+FquMIJKR1EbwX8ztHdhnhb51zwKLm9TUMG1l3eWdrBTXlUWoXMBcxTMpk+9z1otNRurK4823lZTnJ5616NLByp1Izvfl2T2PtMT4eYWpRqwpVGnO2vW6PS5HEiGKeJZUPUMv9arHwzYuUubRdo3cr6Vzlt41uXnRb1EaPOGOK6+wv48Ce3PmwsOldVahPFJuhDlqb2Wz/4J8O6Od8FTg8XVdTDy0v2Z0fhK2KX00meFIXFddrEnlaRcSEZCISfyrlfCaNLdzXGcKx+7XYXiCS1ZGGVbgg96+/wNN0cPSjNWaSueblMlWwkpx+05a97vc8y8PyJepO4GxZNwwPrXKaj4b1LT5p5bAefG5PCnpWYvjyPR/EWoWNwMKsrKm09Oa1tO1XUL+JbmN1t7ct/E45FcOacI4z67WxspxhTlZq/UWS8RYvII/VoUedXd/PXSxxl2s6zEXKMj56EVY0fTm1TUkgHC9WPoK2fGeoW800McbwvIq/O6kVg6Zqp0y8WeJ144Iz1FfJ2m4NJan9B4fF1sZlqr0o8k5Ruk+jOkuYvDej3SxXbb3HUMcV2NlrFrYaSkthbqEkHBX0rg9R0nSPE6i6ju44bhxkqzdDT7bWbjwzarbXapc2ijBdWBr6mvw7lebZfBZfUvXW8ZO1/JH4XPNs4wmNX9rc8optNbLya7nR+JJzfR6cEUtI0wIA6969ftxjTVB64FeCaH4xh8RfEPSYLZNkaP0z1r39f+PVvrXv08BXy3AYfB11aSTf3szwkvbVquISspyul5HjviS6htviNdC4dUBiXr+NalhfwnT5khkDBuhBrjPirpGs3XjaSXT9NuJ4zGv7yMcVleHrXX7F83WnXyJnlAOtepm2VZdmWBpyq1bThZ+eh8rjMvxUMVPE0N2mrep299ci2+zRodvnv87VDruhaU8qz38ijHK4PNYms3OqXt0hg0S8CRjj5e9UJTrlxjzdHvWxwMivzOnLN6GLlisPKSbur+XQ/TMDw/lVbLcNRxM1FxV3bR3fdnZaS2kyoLa1lKt2461BqGoQ6VeKJm2ljjNcnEmswsHTRbwMDkHFWNaXUta03bLot4tyvRsda93IauK+vtZk5SpzVnfofMcUcJ5dSjTq5Y9nrZ6+pf1/WrWWO3iSUSPJKvf3r2/Tf+QEn/AFxX/wBBr5bsvD/iL+0bcy6NdbVlUkkdBmvqSwDR6GoZTuWFcr3+7X22aU8JRpUqOFacVfY4skwMsFCUZXdzwGfXYdK8a6ok4O1pyM12+n6rZGxClFl38jPNeTeMI538WXzpaXJDSk8QscfjitLw4UtJklvZLoJt+55D8fpRxFlWU5ng6dTEVNYrpv6HjTw+Lw2JeJwd1N6bHb61DPqtr9ltCIY2ODtHauNi8BTLqISYsYj1ate/8ZBV8nTba6RO7m3fJ/Srmi+LbZ7Vv7TW7EiHKk278/pXxeE4mxuU05UMFh7Utlo+b1Z774Wx8sG8VWxKdWT1V1fXz8hNN8KR6PercW7sMDBHrUmp6WYJl1C0G5QcsvcGsf8A4TCaDUJpbe3ujG7E7Wt36flWlD4vtntWd7W6WXupt3w36V4uYYnMc7qw+sQtPa9rLXoz2cLgMZwvVeMoVFWpySUo/asdvodsl9Nb3aHacZYelc98e2K2uiFeo8zH/jtN8KeKrvVPE9taWdtLFHj5y8TKAOfWrPxz07UL+10cabYy3Wzfu8sfd6V9rwtha2VV6UcZUTtfreys9Dx7U69KtOjScOZ3szz7QvGrWduILhc4HDZpdE1e41LxYJdx2M2AKxrbwzrDMPtGj3SDv8tdVoNlLoqSyf2LeSSkfKQvQ/lX2GaYrK8NQrVqEVKc1bTdnz6ymcqnLGDvLTyXmTeIGDatL2I4P1rM5xxTp11m4meV9FvCzHJyKZ5Gr/8AQEvP++a/Bll+KS+Bn9H4TH4OhQhSdRe6kh+5tu3ccema0NAQtq0eOoBNZnkauf8AmCXn/fNW9MfVrK+WdtDvCADxtqv7PxLVuQzx2ZYSeFqRhUV2n+R7t4TJOjjJydxrcrB8H280Ggx/aMh3+cq3Vc84rer7xQVNKC6H5Ng4Sp4eEZ7pBRRRTOsKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACobuztr+3aC9gjnibhkkXcD+FTUUAYf/AAhfhnBH9g6fg9vs6/4Un/CD+F/+hf07/wABl/wrdopWQ03FWRhf8IP4W/6F/Tv/AAGX/Cj/AIQfwt/0L+nf+Ay/4Vu0UWQ+eXcwv+EH8L/9C/p3/gMv+FKvgrwyowug6eB7W6/4VuUUOKe6Dmk1a5S0/R9O0lGXTLGC0VjlhDGFyfwpms6JZa9Zi21KMyRZzgHFaFFMzcYtWa0OPb4XeFmBDWTEHqN/Wo/+FS+EP+gaPz/+tXaUVPJHsXCTpq0HZeRxf/CpfCH/AEDR+f8A9aj/AIVL4Q/6Bo/P/wCtXaUUcsexp7ap/M/vOL/4VL4Q/wCgaPz/APrVMvwx8MooVLR1A6APXXUUnTg90RKcpq0ncy9H8PafoUBh0+NkQnJBbPNS6tp39qWUlszFBIu0spwR9Kv0Va0VkZyipKzPOj8KI+SNXvf+/wAf8azz8DNMlYtLfXm4nJ/fE16rRUTpwm7ySbKwv+x3+re5fe2h5SfgTpOOL+8/7+mkPwJ0rbxfXmfTzjXq9FT7Gl/KvuO36/i/+fj+88oHwK0rbzfXmfTzjV20+EMFrB5UOqXkaA8ATH/GvSqKqNOEHzRSTObEVamKh7OvLmj2eqOb8N+FP+EdjkRLqa58w5JlcnH510hAIwRkUUVrKTk7s56dOFKPJBWRiTeC/DNxO00+g6fJKxyztbqST9cVOPDOiCHyhpVn5Y/h8lcVqUUTlKorTd15l8qvexinwb4bPXQrD/wHX/Ck/wCEM8Nf9ALT/wDwHX/CtuisuSPY29tVX2n95ijwb4bU5Gh2A/7d1/wp7eE/D7xmNtGsih6qYFx/KteimoqLulqROUqitN39TGtPCHh2wulubLRLGCdDlZI4FVh+OK2Nq4xgYpaK0lOU3eTuQklsIEUdFH5UbV9BS0VIxNq+go2r6ClooATavoKNq+gpaKAE2r6CjauCMDnrS0UAQNY2rMS1vGSe5UUn9n2n/PtF/wB8irFFAFf+z7T/AJ9ov++RR/Z9p/z7Rf8AfIqxRQBX+wWn/PtF/wB8ij7Baf8APtF/3yKsUUAQpZ20bbo4I1PqFFS4HpS0UAJtHoKNo9BS0UAJtX0FG1fQUtFACbR6CjaPQUtFACBQvQYpaKKACiiigD//2Q==)

Figure 4.6: 3D simulation of air-flow in liquid filled vertical riser

Figure 4.6 shows air-flow in 25 mm liquid filled vertical riser at a cross-section for the same domain. We tried to analyze high air flow rate from bottom inlet in a liquid filled riser with no liquid inflow which is similar to shut-in restart process in oil and gas well. We noticed that most of the water is evacuated with an initial slug of air and developed churn flow regime. There is a small amount of water trapped in the riser moving chaotically jumping up and down.

## Chapter 5: Conclusion

Different flow regime and factors causing transition between them in large diameter upward vertical riser has been attempted to understand in this paper. Both volume fraction of air and air-water superficial velocities are critical parameters for transitions between flow regimes. We were not able to investigate the impact of pipe length and diameter due to lack of resources and limitation of time. Efficiently running VOF model in ANSYS Fluent has been understood and implemented. Good understanding of mesh requirements and CFL condition for multiphase flow problem has been obtained through this project. Difficulty in numerically study multiphase flow problem has been well understood.

**Future Work**

Making a comparison between two different diameter and length pipe to analyze the influence of length and diameter on flow regime and transition between them. Developing flow pattern map for different diameter pipe and compare with highly cited literatures.

## References

[1] T. Taha and Z. F. Cui, “CFD modelling of slug flow in vertical tubes,” *Chem. Eng. Sci.*, vol. 61, no. 2, pp. 676–687, 2006.

[2] N. Brauner and D. Barnea, “Slug/Churn transition in upward gas-liquid flow,” *Chem. Eng. Sci.*, vol. 41, no. 1, pp. 159–163, 1986.

[3] D. Lucas, M. Beyer, L. Szalinski, and P. Schütz, “A new database on the evolution of air-water flows along a large vertical pipe,” *Int. J. Therm. Sci.*, vol. 49, no. 4, pp. 664–674, 2010.

[4] Y. Taitel, D. Bornea, and a E. Dukler, “Modeling Flow Pattern Transitions for Steady Upward Gas-Liquid Flow in Vertical Tubes,” *Aiche J.*, vol. 26, no. 3, pp. 345–354, 1980.

[5] S. F. Ali and H. Yeung, “Experimental study of two-phase air–water flow in large-diameter vertical pipes,” *Chem. Eng. Commun.*, vol. 202, no. 6, pp. 823–842, 2015.

[6] W. S. (Shell I. E. and P. I. . | G. J. Z. (Shell I. E. and P. I. . | R. M. (Shell I. M. P. L. . | M. W. (Shell I. E. and Production), “Gaps and Advancements for Deepwater Production and Remote Processing: Large Diameter Riser Laboratory Gas-Lift Tests,” 2013.