**ELEC 204 Digital Design Lab Report**

Lab 3

Name: Atahan Kalaycı

Date: 1/3/2021

1. **Introduction and objectives**

The objective of this lab was to build a hierarchical logic circuit design using elementary logic gates. The lab was mainly about designing a 4-bit Arithmetic and Logic Unit (ALU) with given ALU operations.

My code is the implementation of the 4-bit Arithmetic and Logic Unit working design for the given operations. First, I designed a 1-bit Full Adder than implemented a 1-bit ALU using the Full adder and lastly, I copied my 1-bit ALU four times to create a 4-bit Arithmetic and Logic Unit.

1. **Methods**

Since I had three files for full adder, bit slice, and 4-bit ALU, I had many inputs and outputs.

**For the full adder,**

**Inputs:**

X

Y

CarryIn

**Outputs:**

CarryOut

Sum

All my inputs and outputs are 1-bit.

**For the bit slice ALU,**

**Inputs:**

Mode

Selector

A\_i

B\_i

Carry\_in

**Outputs:**

F

Carry\_out

All my inputs and outputs are 1-bit except my Selector input is 2-bit.

**For the 4-Bit ALU,**

**Inputs:**

M -- 1-bit

S -- 2-bit

A -- 4-bit

B -- 4-bit

C0 --1-bit

**Outputs:**

Fout --4-bit

Cout -- 1-bit

Over\_flow -- 1-bit

My VHDL code builds a 4-bit Arithmetic and Logic Unit by using a full adder and 1-bit ALUs.

First, I implemented a full adder that adds 1-bit inputs X, Y, and Carry in and produces outputs as Sum and Carry out.

![Graphical user interface, text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEF0YWhhbkthbGF5Y2kAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzczAACSkgACAAAAAzczAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIxOjAxOjAzIDAyOjI3OjMxADIwMjE6MDE6MDMgMDI6Mjc6MzEAAABBAHQAYQBoAGEAbgBLAGEAbABhAHkAYwBpAAAA/+ELIGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMDEtMDNUMDI6Mjc6MzEuNzI2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkF0YWhhbkthbGF5Y2k8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgB3AJUAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+hNH/wCQTD/wL/0I1drmr7UbzSvDWnXNiYPm1G2t5lmjLbo5rlYm2kMNrDzAQTkcYxzkXfEOtS6MtkUs55Y7m7gt3uUSN0g8yaOMb1MiN82/AKhtp5IIGDtToTmo8v2tPut/n/TE3Y2KK5e48S6jZeMtQ0ldMn1WNLS2uraOwhVHjV2lR/MklkWM/NEpABViGOFYKzCSbxrai502HTtM1LU/7VsTfWMlpGgWZAUyCXdfLIWRGy+1TkAEsQta/U611ZXur7+V/lp+T7MXMjpKK5fxB48sfDX2NdTs54prqHzfKlubWDy/9nfLMiOwPBEbPjgnAZS0k3jW1FzpsOnaZqWp/wBq2JvrGS0jQLMgKZBLuvlkLIjZfapyACWIWhYOu4qSjo79um/+fprsHMjpKKw7jxLJBq1npv8AYepPc3djJeqFa3wnl7d0bEyj5wzxrxlcuPmwGIuaDq6a/wCH7LV4Lae2hvYVnijuNu/Y3Kk7WYcjBxnODzg5FZSoVIQ52tPVef8Akx3V7GhRWT4hutRsrWCbTJrWPdcRQutxbtJnzJUjBGHXGNxOOc+1Z2u61qmlappdmtzagXkexn/s+SX975kUeeJQFQmUHk8bcZYsBVU6EqluV7379PkddLDSq25Wtb9+mr6djp6K5XWNb1jTL7SLWWazjkvYQspSyknVZ/MijOCJFwhM3Vum3HJYCjWNb1jTL7SLWWazjkvYQspSyknVZ/MijOCJFwhM3Vum3HJYCrjhZy5bNa3tv0+RccFOXLZr3r236b9PI6qise+1m40ay0n7dpt3f3V7cw2k39lwGVIHcHdK2SCsKkHLHOMjitiuVqzscbVnYKKKKQgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDmrrw+fEOhWUJ1a+0+OGYTlbQQnzHSVZIyfMjf7rICAMA85yKs614ak1vTrO0l1zUrcWzxStJAtvunkjdHR33REAh0DYUKDkggjgRWWuC1mg0oWF3PPJYz3sLRmPbN5ciq0YLOCHzIn3gF+b73BxQ1D4l6Rp+m6VeywT+Xqlol5CJZ7a22o4BA3TyorNzyELFeM4DKW9DDwxUlBUltqtuvX8OvbyJly63Lkng+RtWl1SLxJrMN9LbQ2rTRm3wY49xxsMRQlmdmLFSQSQpVSVJN4MiFzpsuk6xqWkJplibC1htBA6pESmQfNicknyoxkn+AepzT1b4l6Ro32KO9gniuru0jvDaXM9taywI+docTyxgtlWBClipXnGVz1Gn39tqmm22oWMnm2t3Ck8Mm0rvRgGU4OCMgjg81VSWMpRjOastlou1vy2v0vbdiXK9DP1Hw7Hf6kb2LUb6wklhW3uhaOq/aYlLFULFSyY8yTDRlG+c85CkZdv4D+xR6Utj4l1m3Ok2LWFuyrasfKLKSG3QEE4jjXPog7lidbxDdajZWsE2mTWse64ihdbi3aTPmSpGCMOuMbicc59qztd1rVNK1TS7Nbm1AvI9jP/Z8kv73zIo88SgKhMoPJ424yxYClRnXlFRhJa36X2Xo+j+7Q66WEda3K1rfv01fQf4y0G68R21jYw21pLbfaQ1zLPcvG0cRHlyqiqh3l4ZJk5Zdu4EHIBHSVyusa3rGmX2kWss1nHJewhZSllJOqz+ZFGcESLhCZurdNuOSwFGsa3rGmX2kWss1nHJewhZSllJOqz+ZFGcESLhCZurdNuOSwFL2VWpThTura23+f5dP1NYYGcnFpr3r236Xv08jZ1fSTq8UUZv7q0SORZcW4j+dlZXUnejdGUHjHvmorrQpbm9trtdYv4J7e3MAeNYPnDFSzENGRklF6YHHAHOdG0+0fYoPt3lfavLXzvJzs34+bbnnGc4zWRrWqahYXqLbQ4gEYcN9imuPPbJymYsmLAC/MytnfwDtIOFJ1G+SNtL9F/lr/XQVGVVyVODWl+i679Nb/l5D5PDztNZzRazqMMtnam2VwYnZ1JUszF42yx2Lk+3GMnJJ4edprOaLWdRhls7U2yuDE7OpKlmYvG2WOxcn24xk5qX1/r0WnWd5bXWkmKZbSNmWGSZXllkCMyEOvyDepXqTz0p73XiKLVLOyabS3kkt55nAt5FEnlyIFAbedm5ZFycNtIP3hxWyVWy95df830/q5ulWsnzx69PK76ef4kt14dnurzQydb1GOz0oF5LeOYq19IAojaaRcMyrhyU+65YFshcHcqvp97HqWmWt9ArLFdQpMgcYYKygjOO/NVJ7u9TxTZWUbwCzmtZppFaJjJuRkXht2AD5oP3T90+vHJySlJp76/gcPs5Sm099fw1Zp0VmXd3ez6m+naW8EEsMKTyzXMTSrtdnVVVVZefkYkk8YHByStFNfuNQWWOze1097ONpLya7UyxptkkjIXDJkboZDvJGAF+X5jttUJNX/pX2+8uOHnJX+/yvt9/kdDRXPXmq6ifD+n3+m32lyvLJBDO8cTTwu8kqRExsJF4Vmbg5zjHFW5rrUZb3+zbKa1juoLeOa4uJbdmRt5ZQEjDgjJjckluMAfNklT2Dtdvv8rf8OP6vJK7a6330t8vNGtRUVp9o+xQfbvK+1eWvneTnZvx823POM5xmqOt397p0drJaQQSRSXUMMzyyMGRXlRPlUD5j8x6kY4PPSs4wcp8iMo03OfJHc06KzNbv73To7WS0ggkikuoYZnlkYMivKifKoHzH5j1IxweelQ69rT6dNbWlsrC4uVdxKLSW5WNUK5Jjj+Ykl1HUAZJzwFa4UZztbrf8Ny4YedTl5et/w3/rc2aK5XxF4vj0bTI1gv8ATnvpLF7tJJHAikVVGNqhskuThRu6bjk7cN08UsdxCk0EiyxSKGR0bKspGQQR1FE6M4QU5LR/oFTD1KcFOS0d7fIfRXN+N/Ek3hfS7W9gEbA3JMyPEX3QRwyTyhcOu1/LhfaTkbtoIAJZbF3qGpR+O9N02GW0GnXNjcXMqNbsZt0TxLhX3gAHz1PKn7h/vfLccNNxU+jTa/7d3OfmRuUVh3eoalH4703TYZbQadc2Nxcyo1uxm3RPEuFfeAAfPU8qfuH+98trWdZ/sb7B/wAS3UL/AO23sdp/oMHm+Rvz+9k5G2NcfM3OMjisp03BRfdX/Fr9AuaVFFFZjCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA55dBh1azsbg3V3ZzwJLD5tpIEZ4ZGBkiJIJUMY0O5drjaNrLzmCy8Fz6bZWdrpvivXLaG0tI7NFX7K4ZIy2wkPAQGAbaSACQq5yRmtvR/wDkEw/8C/8AQjV2uiniasaagnp2aT/NeYnFXuc+3hCC3+z/ANh6lfaL5FpFZf6J5Um+GLd5Snzkk+7vfBGCdxyTgY3LeNobaKKSaS4dECtNIFDSED7x2gDJ68AD0AqSioqVp1F77v59fv3fzBJIztX0k6vFFGb+6tEjkWXFuI/nZWV1J3o3RlB4x75qK60KW5vba7XWL+Ce3tzAHjWD5wxUsxDRkZJRemBxwBznWoojVnFJLp5Lqbxrzgkl0v0XXcxpPDztNZzRazqMMtnam2VwYnZ1JUszF42yx2Lk+3GMnJJ4edprOaLWdRhls7U2yuDE7OpKlmYvG2WOxcn24xk52aKft6n9JFfWavf8F/l5sx77w99ustJt/wC19Vt/7MuYbjzbe52Pd+WCNkxx86NnLDjNT3mkvdXpuoNUv7OQxrHtgdSgALEnY6suTkZbGflABAznRoqFOSd0ZxqSjLmRmXehQXGj2umW1xPY29q0Ri8gqWAiIKDLq2QCqn1OPrkv9EF/qcN6dQvLcxQtB5UDIqsjMpcZ2lgTtUZVgRjgg5NadFUq01s+/wCO5Sr1Fqn3/HczJdWsNMcWS214iwKqqttps7xquBgKUQrgDA4PHSoZdPGs3VvqtpqWo2LJC8KIsCRnazAtlJYiwJKL17KMdTnZopqoo6x387P9Bqqo+9Ba+dn66WMlPD8VvZWkFheXVnJa26WwuItheSNBgK4ZSp9QcZGTjAZgXvoUCJH/AGdcT6dKi7DNblWeRcliH8xWDHcS24gtlmOfmbOnRS9tU7h9Yqvd/wBeff5mTe+H4rnTbOwtry6sLWz8vy47fYc+WVaPJkVj8pQfXvmpbjSTN5UkV/dW12kYie6iEe+ZR2cFCh5JI+UYycYDEHRoo9tO1r/0/wAxe3qWtf8ALrvfv8zMl1ez01xZvHqLmFVXcljczgjAx+8CNuPqck5680y9sl8R2Nu0V7f2UKyLKFWFY2ZkcMpZZYywwyAjgZ75Fa1FCqKLUo7/AH/oNVFFqUE+ZdXZ/hYzNS0Z9Ts7e3k1S8hELI7PEsW6V0ZWVmyhGQyg4UAdeMcU660k3P2aRb+6gu7eMxC6jEe91bbuBDIU5KKeFHTjAyDo0UKrNJJdPJdRKtNJJdL9F13M660W3uPDj6JE8traNbi2HkkFljxt2gsG/h4ycnn15qPVNDbVIdNR9W1K2awu4royWk4ia6KA/u5cLho2z8ygAHjpWrRUOcmrP1IdSUlZvrc5/wAQ+D7TxNewy6ndzvbwwuiWLwwS2+9gR5xSSNsyLkbTnAwRjDOGr/8ACFzrNp00fivXFuNPtHs452+yyPIjsrMXLwHcx8uMZ64QdyxbqKK6I4utGKgnovJf5db6mXKjlx4HWD+yP7N1/VbD+ydOGnW/ki3bMfybi3mQtlj5UeSMD5eAMnMq+ETCvhy0ttY1CDTNCiCfZIpPLN4yIqRGV1wSqgMSgwrlhkYXB6OioqYirVjyzf5ef+b+8aSQUUUVgMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClo//IJh/wCBf+hGrtYVtr+j6VY28GqatY2UrKXEdxcpGxXcRnDEcZB59qtXPiXQrPyvtmtadB50Qmi827RfMQ9HXJ5U44I4qOaKW5LnFN3Zp0UyGaK5gjnt5ElilUPHIjBldSMggjqCO9ZF/d6ovii00+yntI7e4sbiYmW2Z3V4zGo5EijbmVSRjPykZ+bKtysrhKSSubVFcrpni25fTdGF7p1xeX+qaeL1PsESrG33SyfPJ8pUSLyxCnsckLWgfE9rJ5Dafa3eoRSW0d28ltGP3UMmdjlWIZs7X+VAzfL0yQDKqRZCrQa3NqisU+Iy/kJaaPqN1cSW0dzLbqIo5LdZM7Q4kdRuJVxgE4KnOOM1m8caYs4UwXzQNBb3CXSW5dHinJWNgFy2S4CbSoYk5ClQzA9pBbsHVgt2dHRXMr47077RLFNZajEIdnmP9n8xVLSNFt+QsSwmQx4AJJ5UMgLCO9+IWkWJiSRX891ZpIXuLeBoirtGQTLIisQ8br8hYfLnOCpK9rC24vb07XudVRWFL4rt/PsYrGwvr/8AtG0N3aPbom2VAVyMuy7CA6nL7RzgEt8tMm8VE3+nRaZpN3qdvqFi17FPbvEmVBQD5ZHU9JATnGMjAPzbX7SI/aw7nQUUVi6nr1xYa9babBot3f8An20k/mW8kK42MikYd1/vjJyOoxnnbcpKKuy5SUVdm1RWFqmtXmm+JbOzjtXvYLu0mkSC3i/feZG8YzvZwgXbIfvY5XAJLBaral4+0bT/ALJh/P8Atdsl1H+/hg/dPnY37+SPOcHgZIxzjIzDqRV7kOtCN7vY6aiobO8g1Cwt7yzfzLe4iWWJ8EblYZBweRwe9YviXXNS0yaztNK0ua4mvZfLjuMRtGpCO5XY0qFm2xnuowc5JG01KSSuVKajHmOgorFOuXEPkWv9l3d9qAto5rqK2EMfk78gZ3y45ZHGFZ8beT0JNS1lxomn6ppEkMlvdXNoMyxMfMhmkRMryCrYkBBIPTBHPC51a4vaRs2bVFZmvX11p1nbT2Zh+a+toZVlQtuSSZYztwwww35BORxjHPBfa0bW/Nnaadd6jcJEssqWxiXylYsFJMjoDko/TP3ecZGW5JOzG5pOzNOisKXxXaLPYpb2txcRahaG7trhWiRHXKhV/eOpDM0kSgEcmReeuGN4oMuiaVqdvp93Hb6lLAA8ixN5KySIql1EoPzBxgru25yRxtM+0iT7WHc6CisnUtfGn6tBpy6bfXc9xA80P2dUKvsZQy5ZxtIDqcthTnAJYhajPie1k8htPtbvUIpLaO7eS2jH7qGTOxyrEM2dr/KgZvl6ZIBfPG9h+0ina5tUVS0fU01nRrXUooJoIrqISxpNt37TypO0kcjB69+cHiodevrrTrO2nszD819bQyrKhbckkyxnbhhhhvyCcjjGOeHzLl5iuZcvN0NOiszWtVk0tbQpbTSJPcxQvOioyQ75UQbgXVud+AVDY6kHGDSn16+tfFF7posJtRRLaC4gSziVXQOZFfe8kgQ8xjAyCdxwDtJCc0nZkyqRi7M6CisKXxXb+fYxWNhfX/8AaNobu0e3RNsqArkZdl2EB1OX2jnAJb5aZrPjC00L7Mt/bTRy3EXmeXJPbw7P9ndJKqsw7hC2OM4DKSnUile4nVgk3c6CisKXxXb+fYxWNhfX/wDaNobu0e3RNsqArkZdl2EB1OX2jnAJb5anm114dStbH+yL557m0e6UK0OF2Y3ISZPvZdF4yuWHOASHzxH7SJrUVS0fU01nRrXUooJoIrqISxpNt37TypO0kcjB69+cHiq2qa01rPLZ2VrcXFykAlkeGISLbKxYI7JvVnGUf5Y8sdpGASuXzK1x865eY1qK48fEKytNJ0mTUlQ3t7p8N5LElxBAqCRe3nSJkEhhgFiMc4yM6x8T2snkNp9rd6hFJbR3byW0Y/dQyZ2OVYhmztf5UDN8vTJAMqrB7MhVqb2ZtUVi6lq91Fomn6jZxfZ/tFzaLLBeQnzFSaREKkBhscb885AKkY7hmv8Aiyy8Ozww3kbs0qlgTNBCuM44aaRAx9QpJHGcbly3UitynUjHVm7RWFL4rt/PsYrGwvr/APtG0N3aPbom2VAVyMuy7CA6nL7RzgEt8tM1nxhaaF9mW/tpo5biLzPLknt4dn+zuklVWYdwhbHGcBlJTqRSvcTqwSbudBRXPzeKib/TotM0m71O31Cxa9int3iTKgoB8sjqekgJzjGRgH5tt3WtVk0tbQpbTSJPcxQvOioyQ75UQbgXVud+AVDY6kHGC+eNm+w/aRs32NOisy+1o2t+bO00671G4SJZZUtjEvlKxYKSZHQHJR+mfu84yM1ZfFdv59jFY2F9f/2jaG7tHt0TbKgK5GXZdhAdTl9o5wCW+WhzigdSK3N2iobO8g1Cwt7yzfzLe4iWWJ8EblYZBweRwe9Uta1WTS1tCltNIk9zFC86KjJDvlRBuBdW534BUNjqQcYNOSSuU5JR5uhp0Vz/AIl1zUtMms7TStLmuJr2Xy47jEbRqQjuV2NKhZtsZ7qMHOSRtO1ZtO9hbteLsuGiUyrtC4bHIwGYDnsGb6nrSUk20JTTk4roTUVn3OrC31YaeLO4lle0kuomQptk2Mqsgyww2XTrheevBxk3vjzTbKw067khm2ahbLcxCSaCDCsAQMyyIrNzyFLY4zjK5TqRjuxSqwjuzpqKxb3XpLfT9NuksLuNL6W3VzJEmbbzJEULIhkVgx37fl3bTkkHGDJqWvjT9Wg05dNvrue4geaH7OqFX2MoZcs42kB1OWwpzgEsQtHPFA6kV/Xc1qKxT4ntZPIbT7W71CKS2ju3ktox+6hkzscqxDNna/yoGb5emSAbuj6mms6Na6lFBNBFdRCWNJtu/aeVJ2kjkYPXvzg8U1KLdkNTjJ2TLtFFFUWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUtH/5BMP/AAL/ANCNXawrbX9H0qxt4NU1axspWUuI7i5SNiu4jOGI4yDz7VaufEuhWflfbNa06DzohNF5t2i+Yh6OuTypxwRxUc0UtyXOKbuzTrP1LSRfzwXMN5cWN1ArxpPbhC2xypZcOrLglEOcZ+XgjJzdhmiuYI57eRJYpVDxyIwZXUjIII6gjvWLr/iyy8Ozww3kbs0qlgTNBCuM44aaRAx9QpJHGcblyTcVG8tiZuKjeWw//hGoYrqylsL67sksLFrG3hi8tkRGCjPzozFhsjIycfIODlsw2vhNbC1totP1jUbV7e2S1MyCBnlijLGNW3RFfl3sAVAJzzniny+K7fz7GKxsL6//ALRtDd2j26JtlQFcjLsuwgOpy+0c4BLfLU+qaxNYW1jKbG4QXU8MUjFY3FsXkRNrjzByS+MpuAPPIGDH7vVoztS1a6ev9f8AA8guNADTpPYalfafKIEt3khZJWlRCxQMZkfJBd+eCdxyTxilJ4LtCXFvqF9bReRawQwxmIrAts4eIqWQkkNn7xbO457Ys6nr1xYa9babBot3f+fbST+ZbyQrjYyKRh3X++MnI6jGedrNU1q803xLZ2cdq97Bd2k0iQW8X77zI3jGd7OEC7ZD97HK4BJYLSl7PW/9X/roElS1utvXr/XQrf8ACD2wnvZI9V1FPtcqy7V8nETLctcqVzHniR3+9nhiDnAxZXwtHbzSTabqd9YSzNI00kPlMZA0skoBEkbABWlkxgA4bknAxC3jjTFnCmC+aBoLe4S6S3Lo8U5KxsAuWyXATaVDEnIUqGYQXvxC0ixMSSK/nurNJC9xbwNEVdoyCZZEViHjdfkLD5c5wVJV6KIvh1rc1JtCebUrW+/te+Se2tHtVKrDht+NzkGP72URuMLlRxgkGCHwtHa6bp1taanfQS6dAbaC7XyjJ5J25QhoyhHyJztz8g55OWTeKib/AE6LTNJu9Tt9QsWvYp7d4kyoKAfLI6npICc4xkYB+bbd1rVZNLW0KW00iT3MULzoqMkO+VEG4F1bnfgFQ2OpBxg17ju/8y/3bu/8/L/gGhDEsEEcKFysahQXcuxAGOWYkk+5JJqlqWki/nguYby4sbqBXjSe3CFtjlSy4dWXBKIc4z8vBGTll9raWd+bSOyu7x44lmuDbIreRGxYKxBYM2dj/KgZvl6cjN2zuftlhb3XkzQedEsnlTptkjyM7WHZhnBHrV+7L3TX3Ze6Z82gCTUrW8h1K+t2tbR7SNFZJBtfGWLSIzM2UQ5JPKDIOWzVtfCa2FrbRafrGo2r29slqZkEDPLFGWMatuiK/LvYAqATnnPFHiXXNS0yaztNK0ua4mvZfLjuMRtGpCO5XY0qFm2xnuowc5JG02o9YmintrG6sbh72XT2u/kWNVdkKB4wPMO1suvUlefvnBNR7nMzL93zPT8zThjaKCON5XmZFCmVwAzkDqdoAyevAA9qzNW0J9VvrW5XV76yNo3mRJbrCVD7XQt88bEna7DGce2eaqjxdDJ/ZotdL1G5bU7H7barEkfzL8mVYlwEYB1JLEKc4DFsAzHxPayeQ2n2t3qEUltHdvJbRj91DJnY5ViGbO1/lQM3y9MkAtyhJWuU505K1yS40J5Z0ubfV760uvISCaeFYS1wqFipYPGyggu5+UL94+gxHfeGobrSrLTbS+u9OtLLyvKjtvLbPlMrR5MiOflKDvz3zUM3ie4S/wBOt4PD+oz/AG6xa7wGhjkiwUBRkd1ww8wZ54JAG7nbd1rVZNLW0KW00iT3MULzoqMkO+VEG4F1bnfgFQ2OpBxgr3Gn/wAH+v61F+7af/B/r1/EZquhPqtja20mr30AgaORnhWHdM6MrqzboyMhkBwoUcnIxxRcaE8s6XNvq99aXXkJBNPCsJa4VCxUsHjZQQXc/KF+8fQYffa0bW/Nnaadd6jcJEssqWxiXylYsFJMjoDko/TP3ecZGasviu38+xisbC+v/wC0bQ3do9uibZUBXIy7LsIDqcvtHOAS3y03yX1/UJezvd/r/X3D7rwrp1xa2EEXnWq6dEIrYxPkoqlGUfMDnDxRMM94wDlSwYvvDUN1pVlptpfXenWll5XlR23ltnymVo8mRHPylB3575qtqfjjS9Ngsp8PNFfQC4hkMsNurIQCCDO8eTg8hcleNwGVzu2dz9ssLe68maDzolk8qdNskeRnaw7MM4I9aEqcm0gSpSbSM+bQnm1K1vv7XvkntrR7VSqw4bfjc5Bj+9lEbjC5UcYJByJvC19p1rYwaBcTSiK2W0uHmvVt3mhjJ8tCywORgO43J5bc5yTgjX1LxBHpurQWEllcSNPA80cqvEqEqyrsy7qdxZ41AxgmReeuKreKDLomlanb6fdx2+pSwAPIsTeSskiKpdRKD8wcYK7tuckcbTMlC77kyVO77/8ADGno2n/2RoNhpvm+d9jto4PM27d+xQucZOM46ZqHW9FOtQwxHUbuySKVJcWwi+dkdXQnejdGQHjGe+ag1PXriw16202DRbu/8+2kn8y3khXGxkUjDuv98ZOR1GM87WaprV5pviWzs47V72C7tJpEgt4v33mRvGM72cIF2yH72OVwCSwWqbhy8vRaFSlBRcXstOpPquhPqtja20mr30AgaORnhWHdM6MrqzboyMhkBwoUcnIxxUD+GXOpSahHruqRXckEVu0qGHGxNxxsMZQksxYkjIJIUqpKnXs7yDULC3vLN/Mt7iJZYnwRuVhkHB5HB71i69q+padfotrDi3EQcN9gnuvtDZOY8w5MOAF+dlbO/gHYQSSglzMJqCXO/wAx8vhaMT2MmnanfaathaGzt4rfymVYyVz/AKyNyT+7QZJ/h9zm1faIl5fm7jvbuzeSJYbgWzqvnxqWKqSVLLje/wAyFW+brwMVZ9bubTR9JuJokuWvGtkmu7LbJbo0jxrkbnVirF8Kw3Y6kHGDavtbSzvzaR2V3ePHEs1wbZFbyI2LBWILBmzsf5UDN8vTkZXuB+7M+Hwf9lTTltNe1SA6daGzgZVtyfLJUnO6I5OEQZ9EHckmbxRo9xrkFpaRQW8kHnhriSad0ZIyNkgVVU7i0TypyVxuBBzgiGHxlHcppxg0bVJH1O0N3aoqxEugK5BPmYQ7XVssQMMBnd8tM1Lx9o2n/ZMP5/2u2S6j/fwwfunzsb9/JHnODwMkY5xkZm9LlavoQ3R5Wr6HTVmX2iJeX5u4727s3kiWG4Fs6r58aliqklSy43v8yFW+brwMVbjxNFNAn9jwXF6ZbRLsTQwB1gikDeXI0ZZXcHax2JlvlIwCRm7oF/LqvhrTNQuFRZbu0inkVAQoZkDEDOeMmtOaMnY15oTfKZ9r4TWwtbaLT9Y1G1e3tktTMggZ5YoyxjVt0RX5d7AFQCc854q1caE8s6XNvq99aXXkJBNPCsJa4VCxUsHjZQQXc/KF+8fQYffa0bW/Nnaadd6jcJEssqWxiXylYsFJMjoDko/TP3ecZGasviu38+xisbC+v/7RtDd2j26JtlQFcjLsuwgOpy+0c4BLfLU/u1p/mR+6irf5/h/wCfVdAGp2NraLqV9ZxWzRuPJZHaRo2VkLNKjkkMgOc885zRcaAJ50nGpX0MrQJb3MkLIrXSKWIDHZ8hy78x7D8554XGnDI0sEcjxPCzqGMTkFkJHQ7SRkdOCR71kX93qi+KLTT7Ke0jt7ixuJiZbZndXjMajkSKNuZVJGM/KRn5srUlFa2KlGK95rsVofB/2VNOW017VIDp1obOBlW3J8slSc7ojk4RBn0QdySdC+0RLy/N3He3dm8kSw3AtnVfPjUsVUkqWXG9/mQq3zdeBjI0zxbcvpujC9064vL/VNPF6n2CJVjb7pZPnk+UqJF5YhT2OSFqfU/HGl6bBZT4eaK+gFxDIZYbdWQgEEGd48nB5C5K8bgMrnNOkomalRUb/5k0PhaO103Tra01O+gl06A20F2vlGTyTtyhDRlCPkTnbn5Bzycz6roA1OxtbRdSvrOK2aNx5LI7SNGyshZpUckhkBznnnOajvdekt9P026Swu40vpbdXMkSZtvMkRQsiGRWDHft+XdtOSQcYM99raWd+bSOyu7x44lmuDbIreRGxYKxBYM2dj/KgZvl6cjNe5axdqdmhlxoTyzpc2+r31pdeQkE08KwlrhULFSweNlBBdz8oX7x9BiP8A4RqGK6spbC+u7JLCxaxt4YvLZERgoz86MxYbIyMnHyDg5bNaHxlHcppxg0bVJH1O0N3aoqxEugK5BPmYQ7XVssQMMBnd8tM1Lx9o2n/ZMP5/2u2S6j/fwwfunzsb9/JHnODwMkY5xkZXNStclyo2u3+f9ef5mzo+mJo2jWumxTzTxWsQijebbv2jhQdoA4GB07c5PNQ63op1qGGI6jd2SRSpLi2EXzsjq6E70boyA8Yz3zVW48TRTQJ/Y8FxemW0S7E0MAdYIpA3lyNGWV3B2sdiZb5SMAkZu6Bfy6r4a0zULhUWW7tIp5FQEKGZAxAznjJq04SXIi04SXItirqHh6XUJrGVtc1GF7HDRmJbf5pNjIZG3RH5irsCBhfQCteGNooI43leZkUKZXADOQOp2gDJ68AD2rMufEEdpqV5aXFlcRi1tGuxO7xJHMi43BCzjkE4JYALxkgMpOffeObTTbWzlv8AT7u1e7i81YbuW3t3QZwAfNlVS3cqpJXI3BcjK5oRuxc9ODbv+Zralo8WozwTm4uLaWFXj8y3cKzROVLx5wcAlF+ZcMNvDDms+18Ky2FrbW9j4i1aCK2tktlUfZ2BVC20kNEQGw23IAyFXOSM1NqWsuNE0/VNIkhkt7q5tBmWJj5kM0iJleQVbEgIJB6YI54tXOrC31YaeLO4lle0kuomQptk2Mqsgyww2XTrheevBwPkbuDVNyv/AFr6FW+8NQ3WlWWm2l9d6daWXleVHbeW2fKZWjyZEc/KUHfnvmpJtCebUrW+/te+Se2tHtVKrDht+NzkGP72URuMLlRxgkHLu/iFpFpBYyMrlr20jvFie4t4GSOQfLnzZEBJwwwpbGOcZGZ9T8caXpsFlPh5or6AXEMhlht1ZCAQQZ3jycHkLkrxuAyuZ5qW9yeejq79v+AVZvC19p1rYwaBcTSiK2W0uHmvVt3mhjJ8tCywORgO43J5bc5yTgjoNG0/+yNBsNN83zvsdtHB5m3bv2KFzjJxnHTNT2dz9ssLe68maDzolk8qdNskeRnaw7MM4I9amq4windGkKcYu8QooorQ1CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAKWj/wDIJh/4F/6Eau1hW2v6PpVjbwapq1jZSspcR3FykbFdxGcMRxkHn2q1c+JdCs/K+2a1p0HnRCaLzbtF8xD0dcnlTjgjio5opbkucU3dmnWZfaIl5fm7jvbuzeSJYbgWzqvnxqWKqSVLLje/zIVb5uvAwNrkJv4rW2t5rv7RYve28sDRmOdVKgqpLD5j5iEE4UhvvdcZl74802ysNOu5IZtmoWy3MQkmggwrAEDMsiKzc8hS2OM4yuVKcLamc507e8x8Pg/7KmnLaa9qkB060NnAyrbk+WSpOd0RycIgz6IO5JOhreinWoYYjqN3ZJFKkuLYRfOyOroTvRujIDxjPfNZmpePNN0v7Il1DNHcXNslybeeaC3khV84DCaRBuyGBCk4K84yM9BZ3kGoWFveWb+Zb3ESyxPgjcrDIODyOD3qY+zd4oUVSleEf1KV3opuvssq6jd295bRNELyIRGR1bbvDBkKfMUQnCjBXjAJBZNoAk1K1vIdSvrdrW0e0jRWSQbXxli0iMzNlEOSTygyDlsx+JbvVLCzt59KntI91zDBItzbNLnzZkjBG2RcY3k45z04rM8Q67q2j6vpFkl1aAX0WxpP7Nkl/febFHnAmUIhMwPzHjbjLFgKU3GN7rsKcoRvddv+B1H2/gSG3tvIXWtUZVgtoIi3kZiW3k8yEjEXJU565yGOc8Yur4Wjt5pJtN1O+sJZmkaaSHymMgaWSUAiSNgArSyYwAcNyTgYzNb17W9J1DRbOWexikv4AsxSwluFW482GM4IlTbGTN1bptxyWAo1vXtb0nUNFs5Z7GKS/gCzFLCW4VbjzYYzgiVNsZM3Vum3HJYCovTjfTb+u5lelG+m36/PzN270U3X2WVdRu7e8tomiF5EIjI6tt3hgyFPmKIThRgrxgEgs1XQBqdja2i6lfWcVs0bjyWR2kaNlZCzSo5JDIDnPPOc1oWf2r7Bb/2h5P2vyl8/yM+Xvx823PO3OcZ5xXP3euapbeMptNZrRdPe2i8mcwMWgnlMgj8w7wGQtCw42ktJGo65rWXKlr1Np8iWq3NC40J5Z0ubfV760uvISCaeFYS1wqFipYPGyggu5+UL94+gxpwxLBBHChcrGoUF3LsQBjlmJJPuSSa5XSdZ13Uv7C3XGnR/2npEl8+LNzsceXtA/e/d/fLnudh5G4bcy48XeJIbDw/cQxadcHVtNe4dBA6bJiEEKgmT7rSzwofxbIB+WPaQir2/rT/Mj20Irms/6t/mdVq2hPqt9a3K6vfWRtG8yJLdYSofa6FvnjYk7XYYzj2zzT7vREvfsryXt2lxbxNC1xE6pJLG23erELhdxRSWQKwI+UrXKv4s1tLbw1JJcWMZ1q0SVimmSyiOR5IVUcTDauJ1BJPVDjJYKNDV9d1TSr/SrXUNX0PS/tVi8k8t1CzR+fGYwyoTKnynzCQDyAh654XPB3du39bi9pTd3bt+NrdS7Z+E1sf7P+z6xqI/s6xexgyID8jY5P7rlhsjx2/djIOW3Fr4TWwtbaLT9Y1G1e3tktTMggZ5YoyxjVt0RX5d7AFQCc854pmp6rrA8O6ZqVktvYS3LWyT2t7bPK0bTyRpjIdMFC5yCOcY+WrM13qk1/8A2XYT2kV3b20U91czWzPG28uoCRiQEZMbkkv8oCj5skrVoX0X9f0irU72Sf8AXz8ie70RLj7K9te3dlcWkTQx3ETrJIY227lYyq4bJRCWI3ZXrycs1XQBqdja2i6lfWcVs0bjyWR2kaNlZCzSo5JDIDnPPOc1oWf2r7Bb/wBoeT9r8pfP8jPl78fNtzztznGecVi69q+padfotrDi3EQcN9gnuvtDZOY8w5MOAF+dlbO/gHYQalypXfUuago3a3LVxoTyzpc2+r31pdeQkE08KwlrhULFSweNlBBdz8oX7x9BiP8A4RqGK6spbC+u7JLCxaxt4YvLZERgoz86MxYbIyMnHyDg5bOfqGpeIodLsb61u9GMUy2cTskEk6ySzSrG7oRIv7sB1ZepPOccGpHu/E8Or2Ng0+kvLLbXE7gW0qrJ5UqBQG8w7NySrk4faQfvAgVN432Zm5Qvs+n5+vcmtfCstha21vY+ItWgitrZLZVH2dgVQttJDREBsNtyAMhVzkjNbVnZwafYW9nZp5dvbxLFEmSdqqMAZPJ4HemaZfxarpNpqFurrFdwJPGrgBgrKGAOM84NZfivXZfD+n291CEIM5MqtGW3RJE8sgX5hhtkbbScjdgEAEsL9yEeZbGnuU48y2LWr6Da6xJbyzyTQzW+fLkiYZHzK44II4eONxx1QA5UspgvvDUN1pVlptpfXenWll5XlR23ltnymVo8mRHPylB3575qS5vb+PxfYWMUluLKe0nnkVoWMm6No1wH3gAHzQfun7p9eC5vb+PxfYWMUluLKe0nnkVoWMm6No1wH3gAHzQfun7p9eE+V3uvIUlB3uvIfd6Kbr7LKuo3dveW0TRC8iERkdW27wwZCnzFEJwowV4wCQWTaAJNStbyHUr63a1tHtI0VkkG18ZYtIjMzZRDkk8oMg5bNnUtS/s77J/od3dfablLf/RYt/lbs/vH5+VBjk9sirtVyxbL5YNspaPpiaNo1rpsU808VrEIo3m279o4UHaAOBgdO3OTzUN9o0l3fm7g1fUbGUxLFtt5EMYALEny3Vl3HcMtjOFABAznTop8qtYrkVuUxb7w1DdaVZabaX13p1pZeV5Udt5bZ8plaPJkRz8pQd+e+araxoupvPBPpM7vK0C297I96LZrhEJKglYHwcvJzH5ZG7g9NvR0VLpxZDpRZz9l4VNnHpWzVrtJdN03+z0MSRBGBVQXwyMd2UQgZIGwcEFslr4TWwtbaLT9Y1G1e3tktTMggZ5YoyxjVt0RX5d7AFQCc854roKKPZxD2UEZNxoAnnScalfQytAlvcyQsitdIpYgMdnyHLvzHsPznnhcWdH0xNG0a102KeaeK1iEUbzbd+0cKDtAHAwOnbnJ5q7RVKKTuilCKd0Zl9opur83lpqN3p1w8SxSvbCJvNVSxUESI4GC79Mfe5zgYqy+FoxPYyadqd9pq2FobO3it/KZVjJXP+sjck/u0GSf4fc53aKThFidOLCs/UtJF/PBcw3lxY3UCvGk9uELbHKllw6suCUQ5xn5eCMnOhRVNJqzLaTVmYv/AAjUMV1ZS2F9d2SWFi1jbwxeWyIjBRn50Ziw2RkZOPkHBy2YbXwrLYWttb2PiLVoIra2S2VR9nYFULbSQ0RAbDbcgDIVc5IzXQUVPs4keyhe5i33hqG60qy020vrvTrSy8ryo7by2z5TK0eTIjn5Sg78981W1jRdTeeCfSZ3eVoFt72R70WzXCISVBKwPg5eTmPyyN3B6bejopOnFidKLOfsvCps49K2atdpLpum/wBnoYkiCMCqgvhkY7sohAyQNg4ILZLXwmtha20Wn6xqNq9vbJamZBAzyxRljGrboivy72AKgE55zxXQUUeziHsoIybjQBPOk41K+hlaBLe5khZFa6RSxAY7PkOXfmPYfnPPC4s6PpiaNo1rpsU808VrEIo3m279o4UHaAOBgdO3OTzV2iqUUndFKEU7ozNZ0G11z7N9qkmj+zy7j5LAecn8UL5B3RPgbk6HaPSi+0RLy/N3He3dm8kSw3AtnVfPjUsVUkqWXG9/mQq3zdeBjToo5YvUHCLd7HPv4TU6Bp+kR6xqMVvYeXsZBAXfy2Vo9xMRHylFxgDOPmzV270RL37K8l7dpcW8TQtcROqSSxtt3qxC4XcUUlkCsCPlK1p0UuSIvZx/ryOftfCa2FrbRafrGo2r29slqZkEDPLFGWMatuiK/LvYAqATnnPFWrjRLqWdJovEGqWzCBIXEYgKyFSx3lWiIDHdyVABwOOBWtRR7OKVkCpxSsv1IbOzg0+wt7OzTy7e3iWKJMk7VUYAyeTwO9TUUVexolbRBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBS0f/kEw/8AAv8A0I1dqlo//IJh/wCBf+hGrtJbAZ+paPFqM8E5uLi2lhV4/Mt3Cs0TlS8ecHAJRfmXDDbww5rPtfCstha21vY+ItWgitrZLZVH2dgVQttJDREBsNtyAMhVzkjNdBRUuEW7mbpxbv1MU+GoYfI/si+u9K8m2jtf9G8t98UefLU+aj/d3NyME7uc4GNeGNooI43leZkUKZXADOQOp2gDJ68AD2p9FNRS2KjFR2MzW9FOtQwxHUbuySKVJcWwi+dkdXQnejdGQHjGe+agu/D0t1f2t4uuajb3FtbNbh4ltzvDFS7MGiI3MUTOMAbeAMnO1RScE9WJ04t3ZhS+GXeexnh13VIJbK0NokgMLtIpKlmcvG2WYomT7cAZOSXwy7z2M8Ou6pBLZWhtEkBhdpFJUszl42yzFEyfbgDJzu0UeziL2UTMl0XzbDTbX+09RT+z5YpPNS4xJc7BjbKcfOrdWHGTUF54ahvr/ULme+u/9OtktzGvlhYNhLRyRnZuDqzMwJJwTnsuNqijkixunF9DFHhqGGw023sb67s5dNtvssNzF5bSGLCAqwdGU58tCTtByvGASCf8I1DFdWUthfXdklhYtY28MXlsiIwUZ+dGYsNkZGTj5Bwctnaoo5Ii9nDsc5D4P+yppy2mvapAdOtDZwMq25PlkqTndEcnCIM+iDuSTZ/4RqFrqylub67uktLFrFobjy5EuUcKHMuU3MzbEJ5A+Xpyc7VFL2cUJUoLoYt/4cN/p9tZ/wBsajDFbyrIGQxO7lJFePczoxOwquD1OPmLEk1Pc6KZ/Klh1G7tbxIhE95CIvMnUdnDIUPJJHyjBLbcBmB06KfJEr2cTJl1qx0pxYvFqkhgVV3Jp91cAjAx+8CNuOOpyTnOec1G1j/bEi6pY6rq2nmSIRKgTywArNkmGaMgMSR8xXOFXBAJztUUcre+wuVvR7f15mTe+Hbe50O00m1ubjT7azaFovs5RmAiIMYzIrZAKqfU7eTjIJqWgDUdWgvjqV9bGGB7fyrdkVWR2UuN2wuCdijKsCNvBBya1qKOSLG6cX0/pGfd6PFcwWMFvcXGnxWM8cscdk4iV1QYETADmMjqvHQVV1rwzba9dRSX9zM8MUToto0UMkO5gR5u2SNsuOMHtjGMMwbaopuEXowdOLVmjn/+EVlEllKniLVhNZWzWyTN9nd3VmViWLRHLHYgz/sjuWJB4TWH+zfsOsajZ/2bY/YYfKEDZT5Mlt8TZY+Wmeg+XgDJz0FFT7OJPsof1cxY/Dvkx6La2+o3cVjpMQQQI+03JVVWMyMuCVADEqMBiRngYO1RRVKKWxcYqOwUUUVRQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFLR/+QTD/AMC/9CNXawrbX9H0qxt4NU1axspWUuI7i5SNiu4jOGI4yDz7VaufEuhWflfbNa06DzohNF5t2i+Yh6OuTypxwRxUc0UtyXOKbuzTopkM0VzBHPbyJLFKoeORGDK6kZBBHUEd6yL+71RfFFpp9lPaR29xY3ExMtszurxmNRyJFG3MqkjGflIz82VblZXCUklc2qK5XTPFty+m6ML3Tri8v9U08XqfYIlWNvulk+eT5SokXliFPY5IWtA+J7WTyG0+1u9Qikto7t5LaMfuoZM7HKsQzZ2v8qBm+XpkgGVUiyFWg1ubVFYp8Rl/IS00fUbq4kto7mW3URRyW6yZ2hxI6jcSrjAJwVOccZrN440xZwpgvmgaC3uEukty6PFOSsbALlslwE2lQxJyFKhmB7SC3YOrBbs6OiuZXx3p32iWKay1GIQ7PMf7P5iqWkaLb8hYlhMhjwASTyoZAWEd78QtIsTEkiv57qzSQvcW8DRFXaMgmWRFYh43X5Cw+XOcFSV7WFtxe3p2vc6qisKXxXb+fYxWNhfX/wDaNobu0e3RNsqArkZdl2EB1OX2jnAJb5aZN4qJv9Oi0zSbvU7fULFr2Ke3eJMqCgHyyOp6SAnOMZGAfm2v2kR+1h3OgoorF1PXriw16202DRbu/wDPtpJ/Mt5IVxsZFIw7r/fGTkdRjPO25SUVdlykoq7NqisLVNavNN8S2dnHavewXdpNIkFvF++8yN4xnezhAu2Q/exyuASWC1W1Lx9o2n/ZMP5/2u2S6j/fwwfunzsb9/JHnODwMkY5xkZh1Iq9yHWhG93sdNRUNneQahYW95Zv5lvcRLLE+CNysMg4PI4PesXxLrmpaZNZ2mlaXNcTXsvlx3GI2jUhHcrsaVCzbYz3UYOckjaalJJXKlNRjzHQUVinXLiHyLX+y7u+1AW0c11FbCGPyd+QM75ccsjjCs+NvJ6Empay40TT9U0iSGS3urm0GZYmPmQzSImV5BVsSAgkHpgjnhc6tcXtI2bNqiszXr6606ztp7Mw/NfW0MqyoW3JJMsZ24YYYb8gnI4xjngvtaNrfmztNOu9RuEiWWVLYxL5SsWCkmR0ByUfpn7vOMjLcknZjc0nZmnRWFL4rtFnsUt7W4uItQtDd21wrRIjrlQq/vHUhmaSJQCOTIvPXDG8UGXRNK1O30+7jt9SlgAeRYm8lZJEVS6iUH5g4wV3bc5I42mfaRJ9rDudBRWTqWvjT9Wg05dNvrue4geaH7OqFX2MoZcs42kB1OWwpzgEsQtRnxPayeQ2n2t3qEUltHdvJbRj91DJnY5ViGbO1/lQM3y9MkAvnjew/aRTtc2qKpaPqaazo1rqUUE0EV1EJY0m279p5UnaSORg9e/ODxUOvX11p1nbT2Zh+a+toZVlQtuSSZYztwwww35BORxjHPD5ly8xXMuXm6GnRWZrWqyaWtoUtppEnuYoXnRUZId8qINwLq3O/AKhsdSDjBpT69fWvii900WE2ooltBcQJZxKroHMivveSQIeYxgZBO44B2khOaTsyZVIxdmdBRWFL4rt/PsYrGwvr/8AtG0N3aPbom2VAVyMuy7CA6nL7RzgEt8tM1nxhaaF9mW/tpo5biLzPLknt4dn+zuklVWYdwhbHGcBlJTqRSvcTqwSbudBRWFL4rt/PsYrGwvr/wDtG0N3aPbom2VAVyMuy7CA6nL7RzgEt8tTza68OpWtj/ZF889zaPdKFaHC7MbkJMn3sui8ZXLDnAJD54j9pE1qKpaPqaazo1rqUUE0EV1EJY0m279p5UnaSORg9e/ODxVbVNaa1nls7K1uLi5SASyPDEJFtlYsEdk3qzjKP8seWO0jAJXL5la4+dcvMa1FcePiFZWmk6TJqSob290+G8liS4ggVBIvbzpEyCQwwCxGOcZGdY+J7WTyG0+1u9Qikto7t5LaMfuoZM7HKsQzZ2v8qBm+XpkgGVVg9mQq1N7M2qKxdS1e6i0TT9Rs4vs/2i5tFlgvIT5ipNIiFSAw2ON+ecgFSMdwzX/Fll4dnhhvI3ZpVLAmaCFcZxw00iBj6hSSOM43LlupFblOpGOrN2isKXxXb+fYxWNhfX/9o2hu7R7dE2yoCuRl2XYQHU5faOcAlvlpms+MLTQvsy39tNHLcReZ5ck9vDs/2d0kqqzDuELY4zgMpKdSKV7idWCTdzoKK5+bxUTf6dFpmk3ep2+oWLXsU9u8SZUFAPlkdT0kBOcYyMA/Ntu61qsmlraFLaaRJ7mKF50VGSHfKiDcC6tzvwCobHUg4wXzxs32H7SNm+xp0VmX2tG1vzZ2mnXeo3CRLLKlsYl8pWLBSTI6A5KP0z93nGRmrL4rt/PsYrGwvr/+0bQ3do9uibZUBXIy7LsIDqcvtHOAS3y0OcUDqRW5u0VDZ3kGoWFveWb+Zb3ESyxPgjcrDIODyOD3qlrWqyaWtoUtppEnuYoXnRUZId8qINwLq3O/AKhsdSDjBpySVynJKPN0NOiuf8S65qWmTWdppWlzXE17L5cdxiNo1IR3K7GlQs22M91GDnJI2nas2newt2vF2XDRKZV2hcNjkYDMBz2DN9T1pKSbaEppycV0JqKzNa1WTS1tCltNIk9zFC86KjJDvlRBuBdW534BUNjqQcYLNS18afq0GnLpt9dz3EDzQ/Z1Qq+xlDLlnG0gOpy2FOcAliFoc0twc4rc1qK5zU/HGl6bBZT4eaK+gFxDIZYbdWQgEEGd48nB5C5K8bgMrl83ie4S/wBOt4PD+oz/AG6xa7wGhjkiwUBRkd1ww8wZ54JAG7nbPtIdyfbQ7nQUVha/4ssvDs8MN5G7NKpYEzQQrjOOGmkQMfUKSRxnG5ckviu38+xisbC+v/7RtDd2j26JtlQFcjLsuwgOpy+0c4BLfLTdSKdrjdWCbV9jdorn5vFRN/p0WmaTd6nb6hYtexT27xJlQUA+WR1PSQE5xjIwD8227rWqyaWtoUtppEnuYoXnRUZId8qINwLq3O/AKhsdSDjBOeNm+we0jZvsadFYWv8Aiyy8Ozww3kbs0qlgTNBCuM44aaRAx9QpJHGcblyybxUTf6dFpmk3ep2+oWLXsU9u8SZUFAPlkdT0kBOcYyMA/NtTqRTsJ1YJtX2OgorM1rVZNLW0KW00iT3MULzoqMkO+VEG4F1bnfgFQ2OpBxgs1LXxp+rQacum313PcQPND9nVCr7GUMuWcbSA6nLYU5wCWIWqc0tynOK3NaisU+J7WTyG0+1u9Qikto7t5LaMfuoZM7HKsQzZ2v8AKgZvl6ZIBu6Pqaazo1rqUUE0EV1EJY0m279p5UnaSORg9e/ODxQpRbsgU4ydky7RRRVFhRRRQAUUUUAFFFFABRRRQAUUUUAUtH/5BMP/AAL/ANCNXawrbX9H0qxt4NU1axspWUuI7i5SNiu4jOGI4yDz7VaufEuhWflfbNa06DzohNF5t2i+Yh6OuTypxwRxUc0UtyXOKbuzTrP1LSRfzwXMN5cWN1ArxpPbhC2xypZcOrLglEOcZ+XgjJzdhmiuYI57eRJYpVDxyIwZXUjIII6gjvWLr/iyy8Ozww3kbs0qlgTNBCuM44aaRAx9QpJHGcblyTcVG8tiZuKjeWw//hGoYrqylsL67sksLFrG3hi8tkRGCjPzozFhsjIycfIODlsw2vhNbC1totP1jUbV7e2S1MyCBnlijLGNW3RFfl3sAVAJzzniny+K7fz7GKxsL6//ALRtDd2j26JtlQFcjLsuwgOpy+0c4BLfLT/+ElhlurKKwsbu9S/sWvreaLy1R0UKcfO6sGO+MDIx845GGxn+7v8A1/XYz/dX0/Xy/wCASXGgBp0nsNSvtPlECW7yQskrSohYoGMyPkgu/PBO45J4xSk8F2hLi31C+tovItYIYYzEVgW2cPEVLISSGz94tncc9sa2j6mms6Na6lFBNBFdRCWNJtu/aeVJ2kjkYPXvzg8Vn6/f6tpk8NxatbmwdTCyG3MkwuHO2HBMiLtZ2VT6HGSASyOShy81hyjT5ea2n9f0yt/wg9sJ72SPVdRT7XKsu1fJxEy3LXKlcx54kd/vZ4Yg5wMWV8LR280k2m6nfWEszSNNJD5TGQNLJKARJGwAVpZMYAOG5JwMFxqmp6Vpenf2rCk91PPDDc3FlEPIhZ5UTG15A+Dv2hhu5G4r/DVrXr6606ztp7Mw/NfW0MqyoW3JJMsZ24YYYb8gnI4xjnhcsEr22J5aaTdthk2hPNqVrff2vfJPbWj2qlVhw2/G5yDH97KI3GFyo4wSDBD4WjtdN062tNTvoJdOgNtBdr5Rk8k7coQ0ZQj5E525+Qc8nNrWtVk0tbQpbTSJPcxQvOioyQ75UQbgXVud+AVDY6kHGCzUtfGn6tBpy6bfXc9xA80P2dUKvsZQy5ZxtIDqcthTnAJYhapqCbuVJU03f9f66GnDEsEEcKFysahQXcuxAGOWYkk+5JJqlqWki/nguYby4sbqBXjSe3CFtjlSy4dWXBKIc4z8vBGTmldeLbC1gt7kxXElrd2n2m0nRVC3LEArAgJDGVgQVQgZ5x0ONqGRpYI5HieFnUMYnILISOh2kjI6cEj3qrxloXeE/dRmTaAJNStbyHUr63a1tHtI0VkkG18ZYtIjMzZRDkk8oMg5bNW18JrYWttFp+sajavb2yWpmQQM8sUZYxq26Ir8u9gCoBOec8Va1LXxp+rQacum313PcQPND9nVCr7GUMuWcbSA6nLYU5wCWIWoJfFdv59jFY2F9f8A9o2hu7R7dE2yoCuRl2XYQHU5faOcAlvlqH7O5m/ZJu+/z/rt/TNqGNooI43leZkUKZXADOQOp2gDJ68AD2rM1bQn1W+tbldXvrI2jeZElusJUPtdC3zxsSdrsMZx7Z5o1TWJrC2sZTY3CC6nhikYrG4ti8iJtceYOSXxlNwB55AwYL7xZZ6bq09jeWl8vkLC7TpB5iFZWKIRsJYkyDZtxuJOQCoLCpSha0ipyha0ie40J5Z0ubfV760uvISCaeFYS1wqFipYPGyggu5+UL94+gxHfeGobrSrLTbS+u9OtLLyvKjtvLbPlMrR5MiOflKDvz3zTLnxIFsLK6trS4MdxdpayuURhbP56wsjjzFJO4su5N4BGeRjL9T164sNettNg0W7v/PtpJ/Mt5IVxsZFIw7r/fGTkdRjPO2XyWf/AAepL9nZ/wDB6/5kmq6E+q2NrbSavfQCBo5GeFYd0zoyurNujIyGQHChRycjHFFxoTyzpc2+r31pdeQkE08KwlrhULFSweNlBBdz8oX7x9Bh+tarJpa2hS2mkSe5ihedFRkh3yog3Aurc78AqGx1IOMFlz4gjtNSvLS4sriMWto12J3eJI5kXG4IWccgnBLABeMkBlJb5L6lS5E3f9SO68K6dcWthBF51qunRCK2MT5KKpRlHzA5w8UTDPeMA5UsGL7w1DdaVZabaX13p1pZeV5Udt5bZ8plaPJkRz8pQd+e+az7zx/p+npai9tLi2ubiAXBtbqa3t5IkJIUsJJVGTtPCkkY+YKSBU+p+ONL02Cynw80V9ALiGQyw26shAIIM7x5ODyFyV43AZXM81LUzcqFmXZtCebUrW+/te+Se2tHtVKrDht+NzkGP72URuMLlRxgkHIm8LX2nWtjBoFxNKIrZbS4ea9W3eaGMny0LLA5GA7jcnltznJOCOns7n7ZYW915M0HnRLJ5U6bZI8jO1h2YZwR61S1rVZNLW0KW00iT3MULzoqMkO+VEG4F1bnfgFQ2OpBxg1KMbcxcoQtzE2jaf8A2RoNhpvm+d9jto4PM27d+xQucZOM46ZqHW9FOtQwxHUbuySKVJcWwi+dkdXQnejdGQHjGe+aZqWvjT9Wg05dNvrue4geaH7OqFX2MoZcs42kB1OWwpzgEsQtaFneQahYW95Zv5lvcRLLE+CNysMg4PI4Pen7rXIV7kl7Mz9V0J9VsbW2k1e+gEDRyM8Kw7pnRldWbdGRkMgOFCjk5GOKgfwy51KTUI9d1SK7kgit2lQw42JuONhjKElmLEkZBJClVJUv1PXriw16202DRbu/8+2kn8y3khXGxkUjDuv98ZOR1GM87WaprV5pviWzs47V72C7tJpEgt4v33mRvGM72cIF2yH72OVwCSwWplyXbf6kS9ndt30t3/rr0CXwtGJ7GTTtTvtNWwtDZ28Vv5TKsZK5/wBZG5J/doMk/wAPuc2r7REvL83cd7d2byRLDcC2dV8+NSxVSSpZcb3+ZCrfN14GIL3xAken6be2MM1xaahLbhbpI1KRrLIiqWVnRvm34BAO3qRxgs1/xZZeHZ4YbyN2aVSwJmghXGccNNIgY+oUkjjONy5H7NJg/ZRTb8v6X/AIYfB/2VNOW017VIDp1obOBlW3J8slSc7ojk4RBn0QdySZvFGj3GuQWlpFBbyQeeGuJJp3RkjI2SBVVTuLRPKnJXG4EHOCNezuftlhb3XkzQedEsnlTptkjyM7WHZhnBHrVK+1tLO/NpHZXd48cSzXBtkVvIjYsFYgsGbOx/lQM3y9ORluMFG3RjcKahbozTrMvtES8vzdx3t3ZvJEsNwLZ1Xz41LFVJKllxvf5kKt83XgYgPiMv5CWmj6jdXEltHcy26iKOS3WTO0OJHUbiVcYBOCpzjjLLjxNFNAn9jwXF6ZbRLsTQwB1gikDeXI0ZZXcHax2JlvlIwCRluUGtRynBrX+v66/iMtfCa2FrbRafrGo2r29slqZkEDPLFGWMatuiK/LvYAqATnnPFWrjQnlnS5t9XvrS68hIJp4VhLXCoWKlg8bKCC7n5Qv3j6DGKPiFZWmk6TJqSob290+G8liS4ggVBIvbzpEyCQwwCxGOcZGeqs7yDULC3vLN/Mt7iJZYnwRuVhkHB5HB71MPZy0iTD2UtImfqugDU7G1tF1K+s4rZo3HksjtI0bKyFmlRySGQHOeec5ouNAE86TjUr6GVoEt7mSFkVrpFLEBjs+Q5d+Y9h+c88LjWoq+SLdzV04t3Och8H/ZU05bTXtUgOnWhs4GVbcnyyVJzuiOThEGfRB3JJ0L7REvL83cd7d2byRLDcC2dV8+NSxVSSpZcb3+ZCrfN14GNOihU4pWEqcUrGFD4WjtdN062tNTvoJdOgNtBdr5Rk8k7coQ0ZQj5E525+Qc8nM+q6ANTsbW0XUr6zitmjceSyO0jRsrIWaVHJIZAc555zmtaijkjawezjaxk3GhPLOlzb6vfWl15CQTTwrCWuFQsVLB42UEF3PyhfvH0GI/8AhGoYrqylsL67sksLFrG3hi8tkRGCjPzozFhsjIycfIODls7VFHJEPZxKWj6YmjaNa6bFPNPFaxCKN5tu/aOFB2gDgYHTtzk81DreinWoYYjqN3ZJFKkuLYRfOyOroTvRujIDxjPfNadFPlXLy9CuROPL0MXUPD0uoTWMra5qML2OGjMS2/zSbGQyNuiPzFXYEDC+gFa8MbRQRxvK8zIoUyuAGcgdTtAGT14AHtT6KFFJ3QKKTujM1vRTrUMMR1G7skilSXFsIvnZHV0J3o3RkB4xnvmmTaE82pWt9/a98k9taPaqVWHDb8bnIMf3sojcYXKjjBIOtRQ4Ju4nCLd2c/a+FZbC1trex8RatBFbWyWyqPs7AqhbaSGiIDYbbkAZCrnJGatS+HbcQWMenXNxprWEBtreW3KMywkLlP3iuCP3aHJGfl68nOtRS9nFKwlTilYybjw9FLOktvfX1ofIS3m8mYFriJC21Wdwzgje/wAysrfMTuyARVs/Ca2P9n/Z9Y1Ef2dYvYwZEB+Rscn91yw2R47fuxkHLbugoo9nG4ezhe9jCh8LR2um6dbWmp30EunQG2gu18oyeSduUIaMoR8ic7c/IOeTmfVdAGp2NraLqV9ZxWzRuPJZHaRo2VkLNKjkkMgOc885zWtRRyRtYPZxtYybjQBPOk41K+hlaBLe5khZFa6RSxAY7PkOXfmPYfnPPC4gh8LR2um6dbWmp30EunQG2gu18oyeSduUIaMoR8ic7c/IOeTndoo5Ih7OJk6roA1OxtbRdSvrOK2aNx5LI7SNGyshZpUckhkBznnnOaJtCebUrW+/te+Se2tHtVKrDht+NzkGP72URuMLlRxgkHWoo5IsbpxbuclN4WvtOtbGDQLiaURWy2lw816tu80MZPloWWByMB3G5PLbnOScEdBo2n/2RoNhpvm+d9jto4PM27d+xQucZOM46Zq7RRGCi7oUacYu6CiiirNAooooAKKKKACiiigAooooAKKKKAKWj/8AIJh/4F/6Eau1hW2v6PpVjbwapq1jZSspcR3FykbFdxGcMRxkHn2q1c+JdCs/K+2a1p0HnRCaLzbtF8xD0dcnlTjgjio5opbkucU3dmnWZfaIl5fm7jvbuzeSJYbgWzqvnxqWKqSVLLje/wAyFW+brwMM1jVJbfS7K+0uW3limu7VCxUyLJFLKkeUKsMHDhg3I46c5D9a1WTS1tCltNIk9zFC86KjJDvlRBuBdW534BUNjqQcYKk4vciUotO/QpWfhNbH+z/s+saiP7OsXsYMiA/I2OT+65YbI8dv3YyDlt1XUPCkr+H9K0K12XdpaMsck95cFJEgx5bKFjjw5aF5I8naRkHO7kWp9evrXxRe6aLCbUUS2guIEs4lV0DmRX3vJIEPMYwMgnccA7SQ+XxXb+fYxWNhfX/9o2hu7R7dE2yoCuRl2XYQHU5faOcAlvlrO1O1jK1KzXy/T9EbtZOq+H49Xvo57i9uFjjgkhFqEieEl1Klyro2WwcA5xjIxhmDVdZ8YWmhfZlv7aaOW4i8zy5J7eHZ/s7pJVVmHcIWxxnAZSXy+K7fz7GKxsL6/wD7RtDd2j26JtlQFcjLsuwgOpy+0c4BLfLVynB6M0lOm/dbC58MvdaPZafJruqbbRkfziYWkmZHV4y7NGclSo5GM/xbqn1XQn1WxtbaTV76AQNHIzwrDumdGV1Zt0ZGQyA4UKOTkY4om114dStbH+yL557m0e6UK0OF2Y3ISZPvZdF4yuWHOASLOj6mms6Na6lFBNBFdRCWNJtu/aeVJ2kjkYPXvzg8UJQbt/mJKm24/wCZW1XQn1WxtbaTV76AQNHIzwrDumdGV1Zt0ZGQyA4UKOTkY4om0J5tStb7+175J7a0e1UqsOG343OQY/vZRG4wuVHGCQY7+71RfFFpp9lPaR29xY3ExMtszurxmNRyJFG3MqkjGflIz82V5/RvFWu3V1ZrqL6cLe/023nSaK1dfs89wJDGHzKQyZiK5ypZnQDGamUoKVmiJSgpWaf/AA3zNceC7Q6baWM+oX08FlaG2tRIYswN/DOpCDEqABVfsPcsT0EMbRQRxvK8zIoUyuAGcgdTtAGT14AHtXKnWddl8F6Lq8Nxp0dxe/ZfOV7N2T/SJI1XaPNBG0Sc5J3Y/hq1rGravpk8EaojqsCu0qadcTrdSZO5B5RYwAYU7mD538A7DkjKEdUuw4yhDVLoh+saRqt/4o0+7srv7DaW9tNFLPDIvnEyFDgI8TqVHlL3B+b2wz5fC0YnsZNO1O+01bC0NnbxW/lMqxkrn/WRuSf3aDJP8Pucw6nqWsQ+HdMvrK70syzNbRTsIHnhkaaSOPfGRIvyguWGc5GOnWqXifX9f0TUtNtrJLG7F1aTeZuhZD9oXYkWP3nCvNNEuOdoJJbGSFJwV20+hMnCN5ST6M3db0U61DDEdRu7JIpUlxbCL52R1dCd6N0ZAeMZ75qldeE1vLieefWNRMs0VshYCAbTBIJI3H7r72/cTnIO8jGAuDTPEF03hfQtQv7Sa7uNU8kONPtyUg80bgzAsSqKMAtk+uBnA6CrtCepqowqamFd+Fo7mwSzh1O+tIlu3vCIfKJeRp/PGd8bcK/QDHHBzVq70U3X2WVdRu7e8tomiF5EIjI6tt3hgyFPmKIThRgrxgEg6dFVyRK9nEydV0AanY2toupX1nFbNG48lkdpGjZWQs0qOSQyA5zzznNGp+HbfV4LKO9ubhmtWBeVSitcpgb4pcLho3wCyAAHA9BWtRQ4Re43Ti73RmX2im6vzeWmo3enXDxLFK9sIm81VLFQRIjgYLv0x97nOBhlxol1LOk0XiDVLZhAkLiMQFZCpY7yrREBju5KgA4HHArWop8iDkiQ2dnBp9hb2dmnl29vEsUSZJ2qowBk8ngd6pa3op1qGGI6jd2SRSpLi2EXzsjq6E70boyA8Yz3zWnRTcU1YbinHl6GTNoTzala339r3yT21o9qpVYcNvxucgx/eyiNxhcqOMEg2dH0xNG0a102KeaeK1iEUbzbd+0cKDtAHAwOnbnJ5q7RSUUncShFO6M/UtJF/PBcw3lxY3UCvGk9uELbHKllw6suCUQ5xn5eCMnMM2gCTUrW8h1K+t2tbR7SNFZJBtfGWLSIzM2UQ5JPKDIOWzrUUOKYOEW7nPv4TU6Bp+kR6xqMVvYeXsZBAXfy2Vo9xMRHylFxgDOPmzVq40S6lnSaLxBqlswgSFxGICshUsd5VoiAx3clQAcDjgVrUUvZxF7OP9XIbOzg0+wt7OzTy7e3iWKJMk7VUYAyeTwO9Ur7RTdX5vLTUbvTrh4lile2ETeaqlioIkRwMF36Y+9znAxp0VTimrFOKasZNxoAadJ7DUr7T5RAlu8kLJK0qIWKBjMj5ILvzwTuOSeMRnwxax+Qun3V3p8UdtHaPHbSD97DHnYhZgWXG5/mQq3zdcgEbVFTyRJ9nHsc/a+E1sLW2i0/WNRtXt7ZLUzIIGeWKMsY1bdEV+XewBUAnPOeK0LvSmvILGN9Svo2s545jLDII2uCg+7JtGCrZyVAAPtWhRQoRSsgVOKVkFFFFWaBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFLR/+QTD/AMC/9CNXawrbX9H0qxt4NU1axspWUuI7i5SNiu4jOGI4yDz7VaufEuhWflfbNa06DzohNF5t2i+Yh6OuTypxwRxUc0UtyXOKbuw1vRTrUMMR1G7skilSXFsIvnZHV0J3o3RkB4xnvmmaroT6rY2ttJq99AIGjkZ4Vh3TOjK6s26MjIZAcKFHJyMcU9tchN/Fa21vNd/aLF723lgaMxzqpUFVJYfMfMQgnCkN97rjMvfHmm2Vhp13JDNs1C2W5iEk0EGFYAgZlkRWbnkKWxxnGVzEnT1uZSlS1cn+ZZfwy51KTUI9d1SK7kgit2lQw42JuONhjKElmLEkZBJClVJUkvhaMT2MmnanfaathaGzt4rfymVYyVz/AKyNyT+7QZJ/h9zmtqXjzTdL+yJdQzR3FzbJcm3nmgt5IVfOAwmkQbshgQpOCvOMjPQWd5BqFhb3lm/mW9xEssT4I3KwyDg8jg96EqcnZCiqUm0ilfaIl5fm7jvbuzeSJYbgWzqvnxqWKqSVLLje/wAyFW+brwMZ8Pg/7KmnLaa9qkB060NnAyrbk+WSpOd0RycIgz6IO5JNm/u9UXxRaafZT2kdvcWNxMTLbM7q8ZjUciRRtzKpIxn5SM/Nlef0bxVrt1dWa6i+nC3v9Nt50mitXX7PPcCQxh8ykMmYiucqWZ0Axmpk4c1miZypqVmn/Vn3N3xRo9xrkFpaRQW8kHnhriSad0ZIyNkgVVU7i0TypyVxuBBzgjdrkjrOuy+C9F1eG406O4vfsvnK9m7J/pEkartHmgjaJOck7sfw1a1jVtX0yeCNUR1WBXaVNOuJ1upMncg8osYAMKdzB87+AdhzSnFNy9ClUim5W3t/X9f5GnqWki/nguYby4sbqBXjSe3CFtjlSy4dWXBKIc4z8vBGTnPHg6yX7SkV3dx281jFZRwKybbZYsmJ42K7w6EswYseTnsMM1PUtYh8O6ZfWV3pZlma2inYQPPDI00kce+MiRflBcsM5yMdOtUvE+v6/ompabbWSWN2Lq0m8zdCyH7QuxIsfvOFeaaJcc7QSS2MkTOUFq1/T0JnKmryku346f8ADmnceFo5dD07SYNTvrS209YVTyfKLSGIoYyxeNuQUB4wDzkEcVPcaHNNOlxHrmqW86wJCXjeMqwUsSxjZCm5iRlgoPygDAyC/wAN311qfhfTdQvzCbi7tkncQoURd43AAFieAQM55xnjpVK/1e907WdQS9urS309NNe8tna1d3BTiUttf5lTKHAClvMAB+Uk17llIr3FFStuTX3hqG60qy020vrvTrSy8ryo7by2z5TK0eTIjn5Sg78981JNoTzala339r3yT21o9qpVYcNvxucgx/eyiNxhcqOMEg0rS/1+7SDT5GsbTVY7SK6vne3aSNDIXCxIgk5IMbZbfj5RgHd8tk61d2vkWcunTajqaW0ct4mnmNY4i2QCDK6ZUsj4xk4XnGRk9x62D3HrZ/8ADdPkMtvDLWkGjWkWrX32LSlIEO8I1wQAIxIyBcqgyNuMNxuzjndrnG8caYs4UwXzQNBb3CXSW5dHinJWNgFy2S4CbSoYk5ClQzB58XQtcW1vb6XqNzNcxStGkSR8PFII5Y2JcBWRjySQh6KzEgEjOmtn/Ww4zpR+F/1sdBRWKfEsM3kf2RY3eq+dbR3X+jeWmyKTPlsfNdPvbW4GSNvOMjLJfFdv59jFY2F9f/2jaG7tHt0TbKgK5GXZdhAdTl9o5wCW+Wr9pHuX7WHc3aK5nUvH2jaf9kw/n/a7ZLqP9/DB+6fOxv38kec4PAyRjnGRmzL4rt/PsYrGwvr/APtG0N3aPbom2VAVyMuy7CA6nL7RzgEt8tL2kO4vbU+5u0Vz83iom/06LTNJu9Tt9QsWvYp7d4kyoKAfLI6npICc4xkYB+ba/X/Fll4dnhhvI3ZpVLAmaCFcZxw00iBj6hSSOM43Lk9pGzYe1gk3fY3aKhs7n7ZYW915M0HnRLJ5U6bZI8jO1h2YZwR61ka/4ssvDs8MN5G7NKpYEzQQrjOOGmkQMfUKSRxnG5c05KKuypTjGPM9jdorF1LWXGiafqmkSQyW91c2gzLEx8yGaREyvIKtiQEEg9MEc8T69fXWnWdtPZmH5r62hlWVC25JJljO3DDDDfkE5HGMc8LnWoOaV321NOiqWpal/Z32T/Q7u6+03KW/+ixb/K3Z/ePz8qDHJ7ZFXaq6vYq6bsFFFFMYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUtH/wCQTD/wL/0I1dqlo/8AyCYf+Bf+hGrtJbAZ+paPFqM8E5uLi2lhV4/Mt3Cs0TlS8ecHAJRfmXDDbww5rPtfCstha21vY+ItWgitrZLZVH2dgVQttJDREBsNtyAMhVzkjNdBRUuEW7mbpxbv1MU+GoYfI/si+u9K8m2jtf8ARvLffFHny1Pmo/3dzcjBO7nOBjXhjaKCON5XmZFCmVwAzkDqdoAyevAA9qfRTUUtioxUdjP1LSRfzwXMN5cWN1ArxpPbhC2xypZcOrLglEOcZ+XgjJznjwdZL9pSK7u47eaxiso4FZNtssWTE8bFd4dCWYMWPJz2GOgopOEW7sl04t3aMK48LRy6Hp2kwanfWltp6wqnk+UWkMRQxli8bcgoDxgHnII4qe40OaadLiPXNUt51gSEvG8ZVgpYljGyFNzEjLBQflAGBkHWoo5Ih7OJi33hqG60qy020vrvTrSy8ryo7by2z5TK0eTIjn5Sg78981JNoTzala339r3yT21o9qpVYcNvxucgx/eyiNxhcqOMEg61FHJEPZx/ryMWHw2lvo2labFqeopFpcsbxukqo8ypkLFJtUBkxgEYGcDJzzU+s6Da659m+1STR/Z5dx8lgPOT+KF8g7onwNydDtHpWnRRyRtYfs42tYz7/SReTrc215cafdBfLae1CbnTJIVg6spAJJBxkZOCNzZhuNADTpPYalfafKIEt3khZJWlRCxQMZkfJBd+eCdxyTxjWopuKYOEWc5J4LtCXFvqF9bReRawQwxmIrAts4eIqWQkkNn7xbO457YguPDOoLr9lJpd69nZRLeNNOkqGcvcTCVgEeFkKhlA6g4PX5fm6qio9lH+vvIdGHT+tbmKfDUMPkf2RfXeleTbR2v+jeW++KPPlqfNR/u7m5GCd3OcDB/wjUMV1ZS2F9d2SWFi1jbwxeWyIjBRn50Ziw2RkZOPkHBy2dqiq5Ilezh2OftfCa2FrbRafrGo2r29slqZkEDPLFGWMatuiK/LvYAqATnnPFWptCebUrW+/te+Se2tHtVKrDht+NzkGP72URuMLlRxgkHWoo9nFKwKnFKyMKHwtHa6bp1taanfQS6dAbaC7XyjJ5J25QhoyhHyJztz8g55OZ7jQ5nnSSz1zVLJVgSHyo3jlVgpbDHzUc7juwWzk4Gc4rWoo5Ih7OPQzJdCgNhptnZ3N3Y2+myxPElrMV3rGMCJyclkI6g9cDmi+0RLy/N3He3dm8kSw3AtnVfPjUsVUkqWXG9/mQq3zdeBjTop8sR8kexz7+E1OgafpEesajFb2Hl7GQQF38tlaPcTER8pRcYAzj5s1a1XQn1WxtbaTV76AQNHIzwrDumdGV1Zt0ZGQyA4UKOTkY4rWopezjawvZxtYzLnSZ7q60x5NVuxDY5eSNGEZu5MAK0jJj5R8xKABWJGRgYOnRRVJJFqKWwUUUUxhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBS0f/kEw/8AAv8A0I1drib74gaR4XjtdPvf3l08JnMf2q2t9qF2VTmeWMNkq3C7iNvOMrnSm8a2oudNh07TNS1P+1bE31jJaRoFmQFMgl3XyyFkRsvtU5ABLELXVHB13GMuXR7fL/ga+muwuZXOkorl7jxqTqWlQ6Pod9rFrqmnPqEFzayQx5QGMAbZXQ9JVJzgjK4B+bboeIdal0ZbIpZzyx3N3BbvcokbpB5k0cY3qZEb5t+AVDbTyQQMFfVaqlGLWsttV6bbrXo9ewcyNiiuf1jxNdaZ4ltNJtvD99qf2m0luRLazQLjy3jUriSRc/6wEnI6rjd822xf+IDY+IINIj0m+u5ri0mu45IDCEIiwGT55FO7LxgcYzIOcBiqWGqNJ6aptarZb9dNuocyNiis/QdXTX/D9lq8FtPbQ3sKzxR3G3fsblSdrMORg4znB5wciuU8ceK9Z0DxZomnWF1ZwWuqoUVpdJlu3Sb7RBCu4pNGqoftKklsY2YBYuq1jOMoScZboe53dFc/Fr97aXVlpGradJcavJpL3ztYFPs80kRjWWKIyOGB3Spt3gLhhlsg4rah4pnm8H6F4i0MRpb6ldacWivISzmC6ljjIG1wFcCUHPzD5SMHORIHU0VieKtUvtH06yutPNv82p2dtOs8TPvimuEhbaQy7WHmBgTuHy4xzkUfH3imfwlpNnfW4jYG6JnR4S++CKGWeYKQ67X8qF9pO4btoIAYsoB1NFc/rniV7C6n07TbC8vLyK1FxNLb26zJZI5dY5HjMiPKCY5Dsi3OdhGASucnT/HV1f8AhXS5odOuLnVLvRbbUbtrK2EsViJkJWRomlWSRdySYjiLuRGR1K5AO2orztfi7pmn6BoEutLG2p6npNtqM0MV3bWyRiVcgr9pmj3AsHACliNvzYyudufx5aC60uHTNK1TVhrGnnUNPks4owk8YKbgTI6+WQsqNmTapyFBLkLQB1NFR20rz2sUssEls8iBmhlKl4yRkq20lcjocEj0JrL8Q61Loy2RSznljubuC3e5RI3SDzJo4xvUyI3zb8AqG2nkggYN06cqk1CO7E3Y2KK5vxP4407wpcwQX8UjvMhdSbi3t1wDjhp5Yw59QhYrxuxuXO5p939v022vPs89t9ohSXyLlNksW4A7XXswzgjsauVCpCmqklo9gur2LFFFFYjCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOZg8Pm8ji1Cx1a+0q6khEE0loIW85Ed2QESxuBtMj4K4J3HOcDFq48NST6tZ6l/bmpJc2ljJZKVW3w/mbd0jAxH5yyRtxhcoPlwWBv6P/AMgmH/gX/oRq7W8cRUSVu1tlta29u2gmkc3b+DIrLSdKs7HWNSt59JtmtLe+UQNN5B25jYNEYyP3cfOzd8g55bNjWvDA1jTrOxTV9SsYLR4pB5DxyNI0bo8bO8yOzFWjBznnndurcoqvrVbmU76p32W+/wDw3boHKjHvvD5vfsUyatfWt/ZwtAt/CITLIjbC4ZWjaP5mjRiQgIK8YBIOf4r8NT61pumaVa28E1pDMouJru9lEqQ48qUD5WMjPA8yEsykFg2d2CK/izxJeaJ4l06z/t3Q9Gsby0nl8/Vbct+8ieIbQ3nxg7hLnHUbD1zxch8W3EttZLH4e1K41GaxhvLqxgaJWshKDtVzM8eTuSReORsOQuRnspwxMI060bW1a6W1a1enW/W19Ousvld0dJWRc6ALjxdZa+dRvI3s7WW1W0QReS6yFWctlC+SY4zww/1Y9W3UpvGtqLnTYdO0zUtT/tWxN9YyWkaBZkBTIJd18shZEbL7VOQASxC0ah4rvbLXNP06LwxqV295YyXZ8qa2DRFGjUxkNKASPMGSGxyu3d8xXkWErNpWte+7S233fk/mmh8yLus+HYNZura6N3eWVxbpJD5tnKEd4JChkiJIJUMY0O5NrrtG1l5zkyeAFbwnpHh6HxHrFvaaT5XlPGLUyS+S6PDvLQkfIY1xgDIHzbq62sjxRqs+jeHZ7qySN7yR4rW0EwJj8+aRYYi+CDsDyKWxztzjJwK5SitrvhaTXtMsbKbxBqlsLV4pXlt0tt9xJE6SI77oWAIeMNhAqnJBBGAK2ueBLbxJJZnWtTvL2G0tWhFtcW9rLDJIykfaWjeEr5o4IIAUYIChWdW6muW8Warr+iXVvd2LWbaVIht3jNoZbgXch2W+CZo1KNIyIRwQSMkKzPEAEPgcQx24XxHrhmW1SzurkzRedfQIzlEkk8vcpXzJBvjKOd2SxYBhHY/D6302wsrWx13WIFtrKLT5pI5IVku7aIsYo3YRgpsEjqHi8t8NksWAI39GXVV0a2HiGSzk1PZm5axjZIQ3ogclsDpknnGcDOBHrOs/2N9g/wCJbqF/9tvY7T/QYPN8jfn97JyNsa4+ZucZHFAGJY+AF0mwsrfSPEesWMtpZRWBuYxavJPBEWMKOHhZfk8xwCqqSG+YsQCLOoeEZ77VbDUo/E+sWl3ZWTWayQJaHzA7I0jsHgYbmMcecAAbeAMnPSVj+Idal0ZbIpZzyx3N3BbvcokbpB5k0cY3qZEb5t+AVDbTyQQMG6dOVSahHdibsbFY/iLw+fENvBCdWvtPjhmScraCE+Y6SLJGT5kb/dZAQBgHnORUereJxpWuW+kppGpX1zdWz3Fv9kSMrJsZQ6lmdQhAdTl9qnIAYsQp1NPv7bVNNttQsZPNtbuFJ4ZNpXejAMpwcEZBHB5raMatDlrJej0f9bO3mn1QaPQy7rw9ez3Mc8HijWbRxbRwSCIWzLKULHzCrwsFc7jkqFBwvHArU0+xttL0220+xj8q1tIUghj3FtiKAqjJyTgAcnmrFYetapqFheottDiARhw32Ka489snKZiyYsAL8zK2d/AO0gilUr2h+lvy38u3pc1pUnUlyx3/AK/r/gG5RXN31/r0WnWd5bXWkmKZbSNmWGSZXllkCMyEOvyDepXqTz0p73XiKLVLOyabS3kkt55nAt5FEnlyIFAbedm5ZFycNtIP3hxR9XdviXX8NexusK2r8y69+iu+h0NFV9PvY9S0y1voFZYrqFJkDjDBWUEZx35qpPd3qeKbKyjeAWc1rNNIrRMZNyMi8NuwAfNB+6fun14yVNuTj1V/wMI05OTjs1f8DTorMu7u9n1N9O0t4IJYYUnlmuYmlXa7Oqqqqy8/IxJJ4wODklaKa/cagssdm9rp72cbSXk12pljTbJJGQuGTI3QyHeSMAL8vzHbaoSav/Svt95pHDzkr/f5X2+/yOhornrzVdRPh/T7/Tb7S5XlkghneOJp4XeSVIiY2Ei8KzNwc5xjirc11qMt7/ZtlNax3UFvHNcXEtuzI28soCRhwRkxuSS3GAPmySp7B2u33+Vv+HH9Xkldtdb76W+XmjWorHvtZuNGstJ+3abd391e3MNpN/ZcBlSB3B3StkgrCpByxzjI4rYrFqzsc7VnYKKKKQgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooApaP/AMgmH/gX/oRq7VLR/wDkEw/8C/8AQjV2ktgCiiimBl3GhifxTZ639vu0e0tpLZbVRH5LrIVLFsoXySkZ4YfcHq2Y9R8Pm81I6hY6tfaVdSQrBNJaCFvORCzICJY3A2mR8FcE7jnOBjYorZV6itrsrbLbfbrrrr1FZHNzeDIhc6bLpOsalpCaZYmwtYbQQOqREpkHzYnJJ8qMZJ/gHqc6GraGNTube7gv7vTb23R4kubQRlvLcqXQiRHXBMaHO3I2jBAJB1KKp4mq2m3qr9F13v3+fdhyojt4FtraKCMyMkSBFMkjSMQBjlmJLH3JJPeszxRpU+s+HZ7WyaNLyN4rq0MxIj8+GRZog+ATsLxqGxztzjBwa16Kwbbd2MK5/XfCUXiDU4bq81K8WGG1mt1sRHbyW5MqMjSlJImy+1sAk4xlcbXcN0Fcl4z13XPDtzb3tobd9JkhmieNNPe4uBdeW7QgYmRSrsAgX7zSGNAcy7kQG/o2nPpGjW2nyaheakbdNgur51eaQDpvZVUMQMDOMnGSSckx6zo39s/YP+JlqFh9ivY7v/QZ/K8/Zn91Jwd0bZ+ZeM4HNSaMuqro1sPEMlnJqezNy1jGyQhvRA5LYHTJPOM4GcCPWdZ/sb7B/wAS3UL/AO23sdp/oMHm+Rvz+9k5G2NcfM3OMjigDSrH8ReHz4ht4ITq19p8cMyTlbQQnzHSRZIyfMjf7rICAMA85yK2Kx/EOtS6MtkUs55Y7m7gt3uUSN0g8yaOMb1MiN82/AKhtp5IIGDvh+f2sfZ/F02/X8Pw1E7W1I7jw1JPq1nqX9uaklzaWMlkpVbfD+Zt3SMDEfnLJG3GFyg+XBYG5oOkJoHh+y0iC5nuYbKFYIpLjbv2LwoO1VHAwM4zgc5OTVPVvE40rXLfSU0jUr65urZ7i3+yJGVk2ModSzOoQgOpy+1TkAMWIU6mn39tqmm22oWMnm2t3Ck8Mm0rvRgGU4OCMgjg81pVdf2Uef4Xtt59vn+PYStcsVnXmkvdXpuoNUv7OQxrHtgdSgALEnY6suTkZbGflABAznRrD1rVNQsL1FtocQCMOG+xTXHntk5TMWTFgBfmZWzv4B2kHKipuVob/wBf1/wDpoRnKdob/wBf1/wCzd6FBcaPa6ZbXE9jb2rRGLyCpYCIgoMurZAKqfU4+uS/0QX+pw3p1C8tzFC0HlQMiqyMylxnaWBO1RlWBGOCDk1nX1/r0WnWd5bXWkmKZbSNmWGSZXllkCMyEOvyDepXqTz0p73XiKLVLOyabS3kkt55nAt5FEnlyIFAbedm5ZFycNtIP3hxXRGNRaqS6/lr07HVGFVWamvtfld9Oxel1aw0xxZLbXiLAqqq22mzvGq4GApRCuAMDg8dKhl08azdW+q2mpajYskLwoiwJGdrMC2UliLAkovXsox1OdHT72PUtMtb6BWWK6hSZA4wwVlBGcd+aqT3d6nimyso3gFnNazTSK0TGTcjIvDbsAHzQfun7p9eMo6SajpJXvfXpr0MoaSairSV73s+mulhieH4reytILC8urOS1t0thcRbC8kaDAVwylT6g4yMnGAzAvfQoESP+zrifTpUXYZrcqzyLksQ/mKwY7iW3EFssxz8zZLu7vZ9TfTtLeCCWGFJ5ZrmJpV2uzqqqqsvPyMSSeMDg5JWimv3GoLLHZva6e9nG0l5NdqZY02ySRkLhkyN0Mh3kjAC/L8x22lWkr39fntfv5b/AIlpV5Lmb9fntfTW/Tf8S3e+H4rnTbOwtry6sLWz8vy47fYc+WVaPJkVj8pQfXvmpbjSTN5UkV/dW12kYie6iEe+ZR2cFCh5JI+UYycYDEHPvNV1E+H9Pv8ATb7S5XlkghneOJp4XeSVIiY2Ei8KzNwc5xjirc11qMt7/ZtlNax3UFvHNcXEtuzI28soCRhwRkxuSS3GAPmySpaolq1o3/wb6a9O4WrKOslo3f8AC99NenfoM1DQJb7U9HlXV762sdMLSPZwTMv2uQBRGZZM72RRvJQnDlgWyFwdmse+1m40ay0n7dpt3f3V7cw2k39lwGVIHcHdK2SCsKkHLHOMjitiuR7nDLd3CiiikIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAKWj/8gmH/AIF/6Eau1S0f/kEw/wDAv/QjV2ktgCiiimAUUUUAFFFFABRRRQAVkeJNAHiTTIrJtRvNPEd1DdCWzEW8tE4kQHzEcYDqrdOdoHQkHXrn9S1LVbvX5dE8PzWdncWtrFd3N1fWzTptlaRERI1kQkkwyEsWG3CgBtxKAHQVm6zo39s/YP8AiZahYfYr2O7/ANBn8rz9mf3UnB3Rtn5l4zgc1z+t+P4vB9rplv4ohjfU57VXuDbXNvbW/mAAP5b3Use8bs8KWZRtLBdy7rM/jy0F1pcOmaVqmrDWNPOoafJZxRhJ4wU3AmR18shZUbMm1TkKCXIWgDqax/EXh8+IbeCE6tfafHDMk5W0EJ8x0kWSMnzI3+6yAgDAPOciqeoeMW0/VbDTG8PaxPfX9k13BDAsDcoyCSJm80KjJ5iksxCHOFdmIUyXPimS31my0s+H9UkurzT5b5VR7bCeXt3xMTMPnDSRrxlcyD5sBit06kqc1OO6E1ckuPDUk+rWepf25qSXNpYyWSlVt8P5m3dIwMR+cskbcYXKD5cFgbmg6QmgeH7LSILme5hsoVgikuNu/YvCg7VUcDAzjOBzk5NczqfirWL/AMFaL4k8M/Z9Oh1Ga0TyNWsvPkKXM8UUb/up1C4WTfjLEggHac1pah4qm0XVbDRbnSdQ1XUrqya4jk06CNYp2jZFlA3y/usb1b94wXBCh2chTcq9ScORvT0Xn/mwsr3OkrOvNJe6vTdQapf2chjWPbA6lAAWJOx1ZcnIy2M/KACBnNjTdQtdX0q01LT5fOtLyFJ4JNpXejqGU4IBGQRwRmq2s6z/AGN9g/4luoX/ANtvY7T/AEGDzfI35/eycjbGuPmbnGRxWcZOLujSE5Qd0Jd6FBcaPa6ZbXE9jb2rRGLyCpYCIgoMurZAKqfU4+uS/wBEF/qcN6dQvLcxQtB5UDIqsjMpcZ2lgTtUZVgRjgg5NadY/iHWpdGWyKWc8sdzdwW73KJG6QeZNHGN6mRG+bfgFQ208kEDB2pSqzmoxeuv47/1v2LWIqR1v3/Hcll1aw0xxZLbXiLAqqq22mzvGq4GApRCuAMDg8dKhl08azdW+q2mpajYskLwoiwJGdrMC2UliLAkovXsox1OWat4nGla5b6SmkalfXN1bPcW/wBkSMrJsZQ6lmdQhAdTl9qnIAYsQp1NPv7bVNNttQsZPNtbuFJ4ZNpXejAMpwcEZBHB5q3GdOCqJb9dH+Fuuv3NdGEa0Yu8Pi63s/XSxRTw/Fb2VpBYXl1ZyWtulsLiLYXkjQYCuGUqfUHGRk4wGYF76FAiR/2dcT6dKi7DNblWeRcliH8xWDHcS24gtlmOfmbOnWHrWqahYXqLbQ4gEYcN9imuPPbJymYsmLAC/MytnfwDtIMwlVqSsn/X6/15mtOdarLlT1/P/P8AT0uTXvh+K502zsLa8urC1s/L8uO32HPllWjyZFY/KUH175qW40kzeVJFf3VtdpGInuohHvmUdnBQoeSSPlGMnGAxBzL6/wBei06zvLa60kxTLaRsywyTK8ssgRmQh1+Qb1K9SeelPe68RRapZ2TTaW8klvPM4FvIok8uRAoDbzs3LIuThtpB+8OK1Uall7y6/wCbvpqbKFWy99bv8ru+mvzLGoaBLfano8q6vfW1jphaR7OCZl+1yAKIzLJneyKN5KE4csC2QuDs1X0+9j1LTLW+gVliuoUmQOMMFZQRnHfmqk93ep4psrKN4BZzWs00itExk3IyLw27AB80H7p+6fXjlUJOTT3V/wADjVOUpuL3V/w3NOisy7u72fU307S3gglhhSeWa5iaVdrs6qqqrLz8jEknjA4OSVopr9xqCyx2b2unvZxtJeTXamWNNskkZC4ZMjdDId5IwAvy/MdtqhJq/wDSvt95ccPOSv8Af5X2+/yOhornrzVdRPh/T7/Tb7S5XlkghneOJp4XeSVIiY2Ei8KzNwc5xjirc11qMt7/AGbZTWsd1BbxzXFxLbsyNvLKAkYcEZMbkktxgD5skqewdrt9/lb/AIcf1eSV211vvpb5eaNaise+1m40ay0n7dpt3f3V7cw2k39lwGVIHcHdK2SCsKkHLHOMjitisWrOxztWdgooopCCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClo//IJh/wCBf+hGrtUtH/5BMP8AwL/0I1dpLYAooopgFFFFABRRRQAUUUUAFZGq6ANQulvLLUbzSL4IInu7ERF5YwSQjrKjowBJIJXcuW2kB3Da9c/qWpard6/Lonh+azs7i1tYru5ur62adNsrSIiJGsiEkmGQliw24UANuJQALvwjBPdRz2mqapYH7LHZ3P2e4DPdwRliiPJIrSAjzJPnRkc7ySxIUjNtvh39hj0ddP8AFWuWp0fT2062dFs2PksyEht1uQTiKJc+kY7lixrfj+Lwfa6Zb+KIY31Oe1V7g21zb21v5gAD+W91LHvG7PClmUbSwXcu6zP48tBdaXDpmlapqw1jTzqGnyWcUYSeMFNwJkdfLIWVGzJtU5CglyFoAs6z4Wk1XX7bV7fxBqml3FrayWsa2aWzJtkZGckSwuckxx9+NgxjJzW8c+HbvxRa6fYQWtnLai6DXctxdSRPHCw8uZURUIcvBJPHyybd4YHIBEuoeMW0/VbDTG8PaxPfX9k13BDAsDcoyCSJm80KjJ5iksxCHOFdmIUyXPimS31my0s+H9UkurzT5b5VR7bCeXt3xMTMPnDSRrxlcyD5sBioBL4m8Nt4ltreA6zqGmxQTRzlbJYD5jxyJJGW82N/uvGCAMA8g5FRXPhaS41my1Q+INUjurPT5bFWRLbD+Zt3ysDCfnLRxtxhcxj5cFg2bp/izUfF8dqPC8cekmXT4NTeXV7bzz5M7SLCqxxTAZYRO5Jf5RsG0lm2WdM8bDULhLP+x7z7Y1reShYXiaOSS0uPs80SMzKSd5XazqilWBJU7gADX8O6LH4b8N2GjW91cXcNhCsEUtzs8wovCg7FUHC4GcZwOcnJJrOjf2z9g/4mWoWH2K9ju/8AQZ/K8/Zn91Jwd0bZ+ZeM4HNc/wD8LAkuLrQl0nwxqmpW+taS2qRSQy2yOigxfIVklUZAmXcc8ZXG75ivZUAFY/iLw+fENvBCdWvtPjhmScraCE+Y6SLJGT5kb/dZAQBgHnORU2s6z/Y32D/iW6hf/bb2O0/0GDzfI35/eycjbGuPmbnGRxWlV06kqc1OO6E1cw7jw1JPq1nqX9uaklzaWMlkpVbfD+Zt3SMDEfnLJG3GFyg+XBYG5oOkJoHh+y0iC5nuYbKFYIpLjbv2LwoO1VHAwM4zgc5OTVfUfEBs9SOn2Ok32q3UcKzzR2hhXyUcsqEmWRAdxjfAXJG05xkZji8VWt1c2kWn2l3eJfaW+p2c0YRVuEUp8g3spVz5sZ+YKvzfe4OOuSxFSmovb5Lu/lu2r7q72FomblZ15pL3V6bqDVL+zkMax7YHUoACxJ2OrLk5GWxn5QAQM5xP+E5knudFXS/DupahBq+lnUonilt0ZFBi+Uq8ijIEq554yuN3zbesrGdOrh7OWl/R9bar17mkKji7xMy70KC40e10y2uJ7G3tWiMXkFSwERBQZdWyAVU+px9cl/ogv9ThvTqF5bmKFoPKgZFVkZlLjO0sCdqjKsCMcEHJrTrD1rVNQsL1FtocQCMOG+xTXHntk5TMWTFgBfmZWzv4B2kEpSqzlaL11/Hc6aMq05csXrr+O/m/66XLMurWGmOLJba8RYFVVW202d41XAwFKIVwBgcHjpUMunjWbq31W01LUbFkheFEWBIztZgWyksRYElF69lGOpzUvr/XotOs7y2utJMUy2kbMsMkyvLLIEZkIdfkG9SvUnnpT3uvEUWqWdk02lvJJbzzOBbyKJPLkQKA287NyyLk4baQfvDitlTsuaLV9d9emvQ3jS5UpQa5tb3d9lrpy/r5FtPD8VvZWkFheXVnJa26WwuItheSNBgK4ZSp9QcZGTjAZgXvoUCJH/Z1xPp0qLsM1uVZ5FyWIfzFYMdxLbiC2WY5+Zs29PvY9S0y1voFZYrqFJkDjDBWUEZx35qpPd3qeKbKyjeAWc1rNNIrRMZNyMi8NuwAfNB+6fun14yUqrk4t6q/4f11MFOtKbi3qrvXy3v367jL3w/Fc6bZ2FteXVha2fl+XHb7DnyyrR5MisflKD6981LcaSZvKkiv7q2u0jET3UQj3zKOzgoUPJJHyjGTjAYgtu7u9n1N9O0t4IJYYUnlmuYmlXa7Oqqqqy8/IxJJ4wODklaKa/cagssdm9rp72cbSXk12pljTbJJGQuGTI3QyHeSMAL8vzHbcVVavf8Ap99Nb/P8jSMa7indWWr+ffTW/wA/yLGoaBLfano8q6vfW1jphaR7OCZl+1yAKIzLJneyKN5KE4csC2QuDs1z15quonw/p9/pt9pcryyQQzvHE08LvJKkRMbCReFZm4Oc4xxVua61GW9/s2ymtY7qC3jmuLiW3ZkbeWUBIw4IyY3JJbjAHzZJXJ0Zbt9779P+HMXh5Wu2t3ffS3fTzX3mtRWPfazcaNZaT9u027v7q9uYbSb+y4DKkDuDulbJBWFSDljnGRxWxWLVnY52rOwUUUUhBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFLR/+QTD/wAC/wDQjV2qWj/8gmH/AIF/6Eau0lsAUUUUwCiiigAooooAKKKKACsjVdAGoXS3llqN5pF8EET3diIi8sYJIR1lR0YAkkEruXLbSA7hteuS8V+Ida0fVY0sbbFoIRKr/wBlXV99rfc26Hdbgm32gJ+8dHB835VPlsCAXbvwjBPdRz2mqapYH7LHZ3P2e4DPdwRliiPJIrSAjzJPnRkc7ySxIUjNtvh39hj0ddP8Va5anR9PbTrZ0WzY+SzISG3W5BOIolz6RjuWLXrHxRMf7Nsbq0+36hd6KdSW40t42tbpk8sSJCzuDy0qFS2FKsPm4OM2H4qaPJ5LzabrEME1lZXyT/ZPNXyrrKxHETM24yARbMbyxyoZAzqAa2s+FpNV1+21e38Qappdxa2slrGtmlsybZGRnJEsLnJMcffjYMYyc1vHPh278UWun2EFrZy2oug13LcXUkTxwsPLmVEVCHLwSTx8sm3eGByARt6PqsGtaYl7bJJGC8kUkUoAeKSN2jkRsEglXVlJUlTjIJGCY9Z1n+xvsH/Et1C/+23sdp/oMHm+Rvz+9k5G2NcfM3OMjigCLVdAGoXS3llqN5pF8EET3diIi8sYJIR1lR0YAkkEruXLbSA7hq1z4N06SOyWynvNNNmksIktJ8SSxSsrTI7sGbMjIrNICJdwyHBLE9BWPqPiA2epHT7HSb7VbqOFZ5o7Qwr5KOWVCTLIgO4xvgLkjac4yM3CnKo7R/y/F6CvYzrbwLFY6No9lp+t6pa3Gj2rWVtqCC3ab7O2zMTBojGR+6i52bv3Y55bd0ttAlraxW8RkZIUCKZZGkcgDA3OxLMfUkknqTWPF4qtbq5tItPtLu8S+0t9Ts5owircIpT5BvZSrnzYz8wVfm+9wcZ//CcyT3Oirpfh3UtQg1fSzqUTxS26MigxfKVeRRkCVc88ZXG75tu8cJWl0+9pd+78n9zFzI2tZ0b+2fsH/Ey1Cw+xXsd3/oM/lefsz+6k4O6Ns/MvGcDmtKiiuUox9R8Pm81I6hY6tfaVdSQrBNJaCFvORCzICJY3A2mR8FcE7jnOBiObwnYNbabBZTXenJptsbOE2k2GNsQgaEs2SAfLj+dSJBtG1hk5Na1TULC9RbaHEAjDhvsU1x57ZOUzFkxYAX5mVs7+AdpBr31/r0WnWd5bXWkmKZbSNmWGSZXllkCMyEOvyDepXqTz0r0Ie3tG0rdvy7a6adbbaanTHCSkk7pc3r/X9a9Qt/BkVlpOlWdjrGpW8+k2zWlvfKIGm8g7cxsGiMZH7uPnZu+Qc8tnoLeBba2igjMjJEgRTJI0jEAY5ZiSx9yST3rCe68RRapZ2TTaW8klvPM4FvIok8uRAoDbzs3LIuThtpB+8OK2dPvY9S0y1voFZYrqFJkDjDBWUEZx35rKu6sopzd1r+Lf63t8yJ0HTipJpp9vmv0LFZ15pL3V6bqDVL+zkMax7YHUoACxJ2OrLk5GWxn5QAQM5bPd3qeKbKyjeAWc1rNNIrRMZNyMi8NuwAfNB+6fun14Lu7vZ9TfTtLeCCWGFJ5ZrmJpV2uzqqqqsvPyMSSeMDg5JXOEZRaae6v8r2LhCcWpJrVX+V7a6dwu9CguNHtdMtriext7VojF5BUsBEQUGXVsgFVPqcfXJf6IL/U4b06heW5ihaDyoGRVZGZS4ztLAnaoyrAjHBByaopr9xqCyx2b2unvZxtJeTXamWNNskkZC4ZMjdDId5IwAvy/MdpearqJ8P6ff6bfaXK8skEM7xxNPC7ySpETGwkXhWZuDnOMcVsoVoySbs72+b+XU6I08RGSi3Z3tr3fd2e5el1aw0xxZLbXiLAqqq22mzvGq4GApRCuAMDg8dKhl08azdW+q2mpajYskLwoiwJGdrMC2UliLAkovXsox1OXzXWoy3v9m2U1rHdQW8c1xcS27MjbyygJGHBGTG5JLcYA+bJKw3Gq3+nar4etdQS2ZNSElrOYAxK3Qi85SuTxFtinBzlsmPtuIzbVNKUd/v38rdTJtUkpR+Lz13XZrr6kyeH4reytILC8urOS1t0thcRbC8kaDAVwylT6g4yMnGAzAvfQoESP+zrifTpUXYZrcqzyLksQ/mKwY7iW3EFssxz8zZXWdZ/sb7B/xLdQv/tt7Haf6DB5vkb8/vZORtjXHzNzjI4rSrP21TuZfWKr3f8AXn3+Zk3vh+K502zsLa8urC1s/L8uO32HPllWjyZFY/KUH175qW40kzeVJFf3VtdpGInuohHvmUdnBQoeSSPlGMnGAxB0aKPbTta/9P8AMXt6lrX/AC6737/MxtQ0CW+1PR5V1e+trHTC0j2cEzL9rkAURmWTO9kUbyUJw5YFshcHZoorLcxvfVhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBS0f/AJBMP/Av/QjV2uKvviBpHhdLXT7395dPCZzH9qtrfahdlU5nljDZKtwu4jbzjK50ZvGtqLnTYdO0zUtT/tWxN9YyWkaBZkBTIJd18shZEbL7VOQASxC11RweIcIy5dHt8tfy19NdhOSudJRXN3Xi+Ge2jOg213qBnsY70XEFuJFtoZQ3lSvEzpJIDsc7IwXOwjAJXOh4Y1ObWvCOj6rdLGk99YwXMixghQzxhiACScZPqameHqU4c81bW3n9wXTZqUVwnjjxXrOgeLNE06wurOC11VCitLpMt26TfaIIV3FJo1VD9pUktjGzALF1WtuLX720urLSNW06S41eTSXvnawKfZ5pIjGssURkcMDulTbvAXDDLZBxzjOgorltQ8UzzeD9C8RaGI0t9SutOLRXkJZzBdSxxkDa4CuBKDn5h8pGDnIveKtUvtH06yutPNv82p2dtOs8TPvimuEhbaQy7WHmBgTuHy4xzkAG3RXLePvFM/hLSbO+txGwN0TOjwl98EUMs8wUh12v5UL7Sdw3bQQAxZbOueJXsLqfTtNsLy8vIrUXE0tvbrMlkjl1jkeMyI8oJjkOyLc52EYBK5AOgrE1Tw5Nf6qdQtPEGsaZMYUgCWksbRBVZmJ8qVHTcxYZfbuwigEDcGxNP8dXV/4V0uaHTri51S70W21G7aythLFYiZCVkaJpVkkXckmI4i7kRkdSuaK/F3TNP0DQJdaWNtT1PSbbUZoYru2tkjEq5BX7TNHuBYOAFLEbfmxlcgHST+DdOa10u3sJ7zTE0u1NjAbOfa5tSEDQF2BYA+VH86kSDYCrrk5xLT4V21nZfZU8S646La2VrCX+y5gWzmE1uVxAMlW3D5t2QxzngjSn8eWgutLh0zStU1Yaxp51DT5LOKMJPGCm4EyOvlkLKjZk2qchQS5C1pahrz6ba6XLLo2qTPqN1DbNDbQrK9mZASXm2sVVExhmBYDtmgCzpOlQaNZSWtq0jpJdXF0TIQTummeZhwBwGkIHtjr1qPWdG/tn7B/xMtQsPsV7Hd/6DP5Xn7M/upODujbPzLxnA5rSooAKx9R8Pm81I6hY6tfaVdSQrBNJaCFvORCzICJY3A2mR8FcE7jnOBjYoq4VJU3eP+f4PQVrmHN4TsGttNgsprvTk022NnCbSbDG2IQNCWbJAPlx/OpEg2jawyc17fwZFZaTpVnY6xqVvPpNs1pb3yiBpvIO3MbBojGR+7j52bvkHPLZ6SitliqyVub9e/f1f3i5UR28C21tFBGZGSJAimSRpGIAxyzElj7kknvUlFFc7bbuyjOvNJe6vTdQapf2chjWPbA6lAAWJOx1ZcnIy2M/KACBnLbvQoLjR7XTLa4nsbe1aIxeQVLAREFBl1bIBVT6nH1zp0Voqs1az2NlWqK1nsZl/ogv9ThvTqF5bmKFoPKgZFVkZlLjO0sCdqjKsCMcEHJol1aw0xxZLbXiLAqqq22mzvGq4GApRCuAMDg8dK06KFUukp6pfL9AVW6UamqW1tP0ZjS6eNZurfVbTUtRsWSF4URYEjO1mBbKSxFgSUXr2UY6nL08PxW9laQWF5dWclrbpbC4i2F5I0GArhlKn1BxkZOMBmB1qKftp2stvl+Pcr6xNLljsvT8dNdzMfQoESP+zrifTpUXYZrcqzyLksQ/mKwY7iW3EFssxz8zZZe+H4rnTbOwtry6sLWz8vy47fYc+WVaPJkVj8pQfXvmtaikq1RNO+wliKqad9v6/wCG7GdcaSZvKkiv7q2u0jET3UQj3zKOzgoUPJJHyjGTjAYg173RZbrW9ClDqLHSTLcDdIzTNP5RhjyTncnlyzliTu3CM5xuzs0VLnKSszOVSUlZmRquiT6rrOlXR1a8tbPT3eaSytXMYu5OBH5jqQxRfnJj+6xZd2QuDr0UVBAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzUPh83iRahY6tfaVdSQiCaS0ELeciO7ICJY3A2mR8FcE7jnOBizceGpJ9Ws9S/tzUkubSxkslKrb4fzNu6RgYj85ZI24wuUHy4LA39H/5BMP/AAL/ANCNXa3jiKiSt2tstrW3t209BNI5ey8CwafZWdtZ6zqsK29pHYyujxK9zbxlvLjdhHldodwGj2PhsliQCNjQdITQPD9lpEFzPcw2UKwRSXG3fsXhQdqqOBgZxnA5ycmtCinUxNWqmpu93f5/1/WgKKWxkXOgC48XWWvnUbyN7O1ltVtEEXkushVnLZQvkmOM8MP9WPVtxrPh2DWbq2ujd3llcW6SQ+bZyhHeCQoZIiSCVDGNDuTa67RtZec69Fc4zkpPACt4T0jw9D4j1i3tNJ8rynjFqZJfJdHh3loSPkMa4wBkD5t1Xdd8LSa9pljZTeINUthavFK8tultvuJInSRHfdCwBDxhsIFU5IIIwB0FFAHLa54EtvEklmda1O8vYbS1aEW1xb2ssMkjKR9paN4SvmjgggBRggKFZ1Yh8DiGO3C+I9cMy2qWd1cmaLzr6BGcokknl7lK+ZIN8ZRzuyWLAMOpooA5Kx+H1vpthZWtjrusQLbWUWnzSRyQrJd20RYxRuwjBTYJHUPF5b4bJYsAQWPgBdJsLK30jxHrFjLaWUVgbmMWryTwRFjCjh4WX5PMcAqqkhvmLEAjraKAOb1DwjPfarYalH4n1i0u7KyazWSBLQ+YHZGkdg8DDcxjjzgADbwBk5u6rok+q6zpV0dWvLWz093mksrVzGLuTgR+Y6kMUX5yY/usWXdkLg69FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBS0f/AJBMP/Av/QjV2uO1Dxxp3hSzsoL+KR3mR3Um4t7dcBiOGnljDn1CFivG7G5c3ZvGtqLnTYdO0zUtT/tWxN9YyWkaBZkBTIJd18shZEbL7VOQASxC10wwdeUIzUdHt8t/8/TXYTkrnSUVh3XicW1zHbjSNSnnW2juruKBI3ayjcsFLgPlzmOQbYvMPyHAOV3Z9z4sv4Nc0dItKu57bVtLluo9PW12XkUqNDkOzSCNBtmOQ23DJgMSwWnDCVZuyX49lf8ALXXS2ouZHWUVz+o+KY4tK0jUdNgnurHVJrYJeJGpSNJpY1QujyI43CTAIDFTyV4wTWPE11pniW00m28P32p/abSW5EtrNAuPLeNSuJJFz/rAScjquN3zbVHC1ZWSXfdpbb3vt6bj5kdBRXL+JviBpHhfUo9Pvf3l08InMf2q2t9qElVOZ5Yw2SrcLuI284yubDeMbOX7O2l2d9qkM1pFfSS2kQPk28u7y5CjMrtuCOQqKz/KRtyVBf1OvyKfLo+v9bX6X36C5lsdBRXL3HjG6j1LSrW28L6rc/2jpz3wUNBFLDtMYMbJJIuGHmjdzwSAN3zbdS71wWuuLpQsLueeSxlvYWjMe2by2RWjBZwQ+ZE+8Avzfe4OE8NVVrre73XTfqPmRqUVy48dQTf2QLLRtVu21jThqFmsKRfMnyFkYmQBGUSKSWIU5wGLEKY9e+Iml+Hbm2tNRhkjvZrZbl7aS7tIGhViQATLMiscq4+Rnxt5wCpNxwWIlJRUdX6dP+Dp66bi5kdZRVfT7+21TTbbULGTzbW7hSeGTaV3owDKcHBGQRwea5Hxl4l1rRfFWmWGn3VvDaXtlcTE/wBhXWpSq8TxD7sEgIUiYckYBTqdwA5GnF2e5R21FcJqHxX0jR7XSxqcUa319p8N/JbRanZqkKyA42yzTRpKMq4DRlvu5OAy5s3fjWddf0Q6TayaxpWt6TLe2kNnbEXDMjQEMXkdURDHOThwmCoG4swWkB2VFcbrfxP0LRrXTLrElzb6nard20pnt7RHjYAqQbqWIMcHJVcsuRuC7l3WYvH1hPJM0NjefY10kavb38rQww3kG0N+7MkisCNw3bwoTK7ioZCwB1NFcteeL7mLQ9H1H+wtUsk1K6t4nF1DCXsxLPHGomj84MC+/A27ymcsvBU3tU8SNY6qdN0/RtQ1i7jhSeeOyaBfIR2ZULGaSMHcY5MBSSNhzjK5ANuiuWn8eWgutLh0zStU1Yaxp51DT5LOKMJPGCm4EyOvlkLKjZk2qchQS5C1H4k+Imn+FvsSatZXEM13D53lTXVpb+V6pvmnRHYHgiNn28E4DIWAOtorm9Z8SSDwzpGueHpreW0vr2wG6eBz5tvczRx5X5lKNiUMCwPTBXnjpKACisfUfEBs9SOn2Ok32q3UcKzzR2hhXyUcsqEmWRAdxjfAXJG05xkZx9f8ZXyWmjHwtpc9+ut7DaX2yJosNE82PLeaJyxSPOCUADZ3EjYeqnhKtRpKyv3aVuuvbTVd1tclySOwoqvp73Mmm2z3ybLpoUMy7Au18DcMBnA5zwGYf7R61xnjjxXrOgeLNE06wurOC11VCitLpMt26TfaIIV3FJo1VD9pUktjGzALF1WuZqzsUd3RXPxa/e2l1ZaRq2nSXGryaS987WBT7PNJEY1liiMjhgd0qbd4C4YZbIOK2oeKZ5vB+heItDEaW+pXWnForyEs5gupY4yBtcBXAlBz8w+UjBzkIDqaKxPFWqX2j6dZXWnm3+bU7O2nWeJn3xTXCQttIZdrDzAwJ3D5cY5yKPj7xTP4S0mzvrcRsDdEzo8JffBFDLPMFIddr+VC+0ncN20EAMWUA6miuf1zxK9hdT6dptheXl5Fai4mlt7dZkskcuscjxmRHlBMch2RbnOwjAJXOTp/jq6v/CulzQ6dcXOqXei22o3bWVsJYrETISsjRNKski7kkxHEXciMjqVyAdtRXna/F3TNP0DQJdaWNtT1PSbbUZoYru2tkjEq5BX7TNHuBYOAFLEbfmxlc7c/jy0F1pcOmaVqmrDWNPOoafJZxRhJ4wU3AmR18shZUbMm1TkKCXIWgDqaKjtpXntYpZYJLZ5EDNDKVLxkjJVtpK5HQ4JHoTWX4h1qXRlsilnPLHc3cFu9yiRukHmTRxjepkRvm34BUNtPJBAwbp05VJqEd2JuxsUVzfifxxp3hS5ggv4pHeZC6k3FvbrgHHDTyxhz6hCxXjdjcudzT7v7fpttefZ57b7RCkvkXKbJYtwB2uvZhnBHY1cqFSFNVJLR7BdXsWKKKKxGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzUHh1L9Ir2LUb6wklhFvdC0dV+0xK7lULFSyY8yTDRlG+c85CkQW/gP7FHpS2PiXWbc6TYtYW7Ktqx8ospIbdAQTiONc+iDuWJ39H/wCQTD/wL/0I1drphi60IqKenon0t1XZ29NBOKuY+o+HzeakdQsdWvtKupIVgmktBC3nIhZkBEsbgbTI+CuCdxznAxHceGBJq1nf2+r6lavZWMljCivHINr7cuzSo7s+UjOSx5QZBy27coqViKitZ+Wy9Pnpouy0QWRy8ngdW8MaXoUWv6rBa6Z5Xlugty8nlOjw7y0JHyGNcYAyB826tC+8Pm9+xTJq19a39nC0C38IhMsiNsLhlaNo/maNGJCAgrxgEg7FFU8VVbu31b2XXfprcOVGHdeGA9zHcabq+paXOLaO1klgeOZp44yxjDmdJCSpdzuGCd53E8YLrw1JNcx3drrmpWN79mjtri5gW3LXSoWKFw8TKCC8h+RV++c8BQNyil9Zq9/vSd/W618r7adgsjHvvDsd19iks9RvtPurKFreK7hdZZTE2zcjGZZA2THGSxBbK9eWyX3hq2vfsRS7vrWSzha2WaG4JlkgbZvjZ23N83loS4IkBXIcEnOxRSWIqq1nt+v/AA7+99wsjk7fwH9ij0pbHxLrNudJsWsLdlW1Y+UWUkNugIJxHGufRB3LE6mo+HzeakdQsdWvtKupIVgmktBC3nIhZkBEsbgbTI+CuCdxznAxsUVcsVWk+Zvv0XV31011116i5UR28bQ20UUk0lw6IFaaQKGkIH3jtAGT14AHoBWHrPhaTVdfttXt/EGqaXcWtrJaxrZpbMm2RkZyRLC5yTHH342DGMnPQUVzN3dyjm28FW9t9m/4R/VNQ0H7PZQ2H+heTJ5kEO7ykbz45Pub3wRgncdxbAxJc+FpLjWbLVD4g1SO6s9PlsVZEtsP5m3fKwMJ+ctHG3GFzGPlwWDdBRSA5Kx+H1vpthZWtjrusQLbWUWnzSRyQrJd20RYxRuwjBTYJHUPF5b4bJYsAQN8OtNk8N6Ho01/qEsOi7Y45S0ayXNuODazbUAeBlCBkwNwjXcSRmutooAxPE3htvEttbwHWdQ02KCaOcrZLAfMeORJIy3mxv8AdeMEAYB5ByKiu/C0k91HeWniDVLC++yx2tzd26WzPdrGWKF1khZAQZJD8ipnec5AUDoKKAOWn8CxC60uXRtb1TRU0nTzp1pDZi3dEhJQkEzRSMSfKiGSf4B6tm9qnhiPUdVN/DqeoadLNCltdiykRftUSMzKjMylkx5kmGiKP85+bIUrt0UAclJ4AVvCekeHofEesW9ppPleU8YtTJL5Lo8O8tCR8hjXGAMgfNurqbaJ4LWKKWeS5eNArTShQ8hAwWbaAuT1OAB6AVJRQBj6j4fN5qR1Cx1a+0q6khWCaS0ELeciFmQESxuBtMj4K4J3HOcDFO88GRTLpEenaxqWlW2joq2VvaCBljKxvEGJlidifLdl5JHQ4zzXSUV0xxNWNrP8F6a6a6aK+y0QuVEdvG0NtFFJNJcOiBWmkChpCB947QBk9eAB6AVmXOgC48XWWvnUbyN7O1ltVtEEXkushVnLZQvkmOM8MP8AVj1bdr0Vzt3dxmRrPh2DWbq2ujd3llcW6SQ+bZyhHeCQoZIiSCVDGNDuTa67RtZec5MngBW8J6R4eh8R6xb2mk+V5Txi1Mkvkujw7y0JHyGNcYAyB826utopAc/rvhaTXtMsbKbxBqlsLV4pXlt0tt9xJE6SI77oWAIeMNhAqnJBBGAK2ueBLbxJJZnWtTvL2G0tWhFtcW9rLDJIykfaWjeEr5o4IIAUYIChWdW6migDlofA4hjtwviPXDMtqlndXJmi86+gRnKJJJ5e5SvmSDfGUc7sliwDCOx+H1vpthZWtjrusQLbWUWnzSRyQrJd20RYxRuwjBTYJHUPF5b4bJYsAR1tFAHJWPgBdJsLK30jxHrFjLaWUVgbmMWryTwRFjCjh4WX5PMcAqqkhvmLEAizqHhGe+1Ww1KPxPrFpd2Vk1mskCWh8wOyNI7B4GG5jHHnAAG3gDJz0lFABWP4i8PnxDbwQnVr7T44ZknK2ghPmOkiyRk+ZG/3WQEAYB5zkVsUVdOpKnNTjuhNXMO68PXs9zHPB4o1m0cW0cEgiFsyylCx8wq8LBXO45KhQcLxwK1NPsbbS9NttPsY/KtbSFIIY9xbYigKoyck4AHJ5qxRVTrTnHle3ol+W/l2CyCiiishhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUtH/5BMP/AAL/ANCNXa4nT/Euo2WuXWkrpk+qxpaQXVtHYQqjxq8kyP5kksixn5olIAKsQxwrBWYTat8TvD+l/Ytsn2n7baR3sX+k29t+5kzsb/SJI852twuSMfMBkZ7I4GvJpQV7pP71fXt89+hLkjsKK59vGNnL9nbS7O+1SGa0ivpJbSIHybeXd5chRmV23BHIVFZ/lI25Kg128ZGbw7ousWul30Vrq01uBJKkL+Qks0aIZFEwPziQYK7iucsvG0ysJWdrq13bXv6b/wBeaDmR1FFYereJxpWuW+kppGpX1zdWz3Fv9kSMrJsZQ6lmdQhAdTl9qnIAYsQp1NPv7bVNNttQsZPNtbuFJ4ZNpXejAMpwcEZBHB5rKVGpGCm1o/6/R/c+zHdXsWKKKKyGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHI2XhM3F1JrNtr2q2N3cQpb/wCjtCUSKNnIQI8bKcs7NuYFh0UqpIN5vCEFv9n/ALD1K+0XyLSKy/0TypN8MW7ylPnJJ93e+CME7jknAxp6P/yCYf8AgX/oRq7XQsVWslfSy6LptfvbpfbcTirnJ694e1d7m2uNDuJJJ3tltdQlk1AWjXUaElASlvIVOZJTui8ojfweF2yN4KMvhPRdCOuX1tHpUNuhktI4V894DG0bkSI+MNGGABxyQdwrqKK0+uVVGKVtNdvu37bL/gIXKjDuPDUk+rWepf25qSXNpYyWSlVt8P5m3dIwMR+cskbcYXKD5cFgbmg6QmgeH7LSILme5hsoVgikuNu/YvCg7VUcDAzjOBzk5NaFFYyr1Jw5G9PRef8Amx2V7hRRRWIwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooApaP/wAgmH/gX/oRq7VLR/8AkEw/8C/9CNXaS2AKKK5LxX4h1rR9VjSxtsWghEqv/ZV1ffa33Nuh3W4Jt9oCfvHRwfN+VT5bAsDraK5ux8UTH+zbG6tPt+oXeinUluNLeNrW6ZPLEiQs7g8tKhUthSrD5uDjNh+KmjyeS82m6xDBNZWV8k/2TzV8q6ysRxEzNuMgEWzG8scqGQM6gHbUVR0fVYNa0xL22SSMF5IpIpQA8UkbtHIjYJBKurKSpKnGQSME1tV8R2mmXS2EMcmo6rIglj0yzaM3DR5IMhDsqogwRvcqucKCWKqQDXorjfEXxHsvCd1a2WuWsa3k1qk8iRarZRohJIKr9omhdgCpw2wA/XIHU6bfR6npVpfwDEV1CkyDej4DKCPmRmU9eqkg9iRzQBZorlvFmq6/ol1b3di1m2lSIbd4zaGW4F3IdlvgmaNSjSMiEcEEjJCszxbejLqq6NbDxDJZyanszctYxskIb0QOS2B0yTzjOBnAAL1Fc34n1PW9HuYLqza0bTJEMDobUyTi6c7IMEzIpRpGRT3BIyQrM8ccF94luJo9G+06VBrFtaRXd/dfZJJLf960ipHFH5qsf9U+XZh91cKd52dccLJwVTmVvnp66en3ruTza2Ooorz/AFDxzeLqGmq2r6H4ftbqG8SV9UiMgW5tZ1hdEfzogysWYrkA4TJHOF7TR72bUtDsb66tJLGe5to5pLWTO6BmUEocgHIJx0HToKK2EqUYKc+v6Nr809r/AIoFJNlyiuS8Z67rnh25t720Nu+kyQzRPGmnvcXAuvLdoQMTIpV2AQL95pDGgOZdyb+jLqq6NbDxDJZyanszctYxskIb0QOS2B0yTzjOBnA5Ci9RXN+J9T1vR7mC6s2tG0yRDA6G1Mk4unOyDBMyKUaRkU9wSMkKzPHHBfeJbiaPRvtOlQaxbWkV3f3X2SSS3/etIqRxR+arH/VPl2YfdXCnednXHCycFU5lb56eunp967k82tjqKK8/1DxzeLqGmq2r6H4ftbqG8SV9UiMgW5tZ1hdEfzogysWYrkA4TJHOF7TR72bUtDsb66tJLGe5to5pLWTO6BmUEocgHIJx0HToKK2EqUYKc+v6Nr809r/igUk2XKK5/UtS1W71+XRPD81nZ3FraxXdzdX1s06bZWkRESNZEJJMMhLFhtwoAbcSmbrfj+Lwfa6Zb+KIY31Oe1V7g21zb21v5gAD+W91LHvG7PClmUbSwXcu7kKOyorlp/HloLrS4dM0rVNWGsaedQ0+SzijCTxgpuBMjr5ZCyo2ZNqnIUEuQtS6h4xbT9VsNMbw9rE99f2TXcEMCwNyjIJImbzQqMnmKSzEIc4V2YhSAdJRXP3PimS31my0s+H9UkurzT5b5VR7bCeXt3xMTMPnDSRrxlcyD5sBiuTqfirWL/wVoviTwz9n06HUZrRPI1ay8+QpczxRRv8Aup1C4WTfjLEggHac0AdtRXN6h4qm0XVbDRbnSdQ1XUrqya4jk06CNYp2jZFlA3y/usb1b94wXBCh2chTZn8U2q6VoupafZahqtprM0EcEljbF/KSZdyzSA4KRgY3MRkZHFAG3RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUtH/5BMP/AAL/ANCNXapaP/yCYf8AgX/oRq7SWwBWJqnhya/1U6haeINY0yYwpAEtJY2iCqzMT5UqOm5iwy+3dhFAIG4Nt1z+palqt3r8uieH5rOzuLW1iu7m6vrZp02ytIiIkayISSYZCWLDbhQA24lGAT+DdOa10u3sJ7zTE0u1NjAbOfa5tSEDQF2BYA+VH86kSDYCrrk5xLT4V21nZfZU8S646La2VrCX+y5gWzmE1uVxAMlW3D5t2Qxzngizrfj+Lwfa6Zb+KIY31Oe1V7g21zb21v5gAD+W91LHvG7PClmUbSwXcu6zP48tBdaXDpmlapqw1jTzqGnyWcUYSeMFNwJkdfLIWVGzJtU5CglyFoA29J0qDRrKS1tWkdJLq4uiZCCd00zzMOAOA0hA9sdetGq6PZa1arBfpIRG4kjkhmeGWJsEbkkQh0OCykqRlWYHgkHJ1Dxi2n6rYaY3h7WJ76/smu4IYFgblGQSRM3mhUZPMUlmIQ5wrsxCmS58UyW+s2Wlnw/qkl1eafLfKqPbYTy9u+JiZh84aSNeMrmQfNgMVANy2ieC1iilnkuXjQK00oUPIQMFm2gLk9TgAegFSVxun+LNR8Xx2o8Lxx6SZdPg1N5dXtvPPkztIsKrHFMBlhE7kl/lGwbSWbZZ0zxsNQuEs/7HvPtjWt5KFheJo5JLS4+zzRIzMpJ3ldrOqKVYElTuAALOu+EovEGpw3V5qV4sMNrNbrYiO3ktyZUZGlKSRNl9rYBJxjK42u4bS0bTn0jRrbT5NQvNSNumwXV86vNIB03sqqGIGBnGTjJJOSeb/wCFgSXF1oS6T4Y1TUrfWtJbVIpIZbZHRQYvkKySqMgTLuOeMrjd8xXsqAMPWvC8Wu6jFc3WoXaxRW0sC2YjgkgJkRkaQrJG2X2tgHOMZGNruGjTwoYbK1S317VY763hFu2p7oXuLiIElUl3RlHwTwxXcPm5+d91nVfEdppl0thDHJqOqyIJY9Ms2jNw0eSDIQ7KqIMEb3KrnCgliqnE8RfEey8J3VrZa5axreTWqTyJFqtlGiEkgqv2iaF2AKnDbAD9cgdKxNVRUb6LyX+XmLlRpHwbp/8AaVpcLLOLW2tJ7NtPcRyQ3CTENKZS6F3Z2VWYl8krk53Nu2LG0+w2UdsLie4WPIV7h977cnALdWwMDJyxAyxY5JTTb6PU9KtL+AYiuoUmQb0fAZQR8yMynr1UkHsSOao+KNVn0bw7PdWSRveSPFa2gmBMfnzSLDEXwQdgeRS2OducZOBUTrVKiSm7/wBP/MEkg8SaAPEmmRWTajeaeI7qG6EtmIt5aJxIgPmI4wHVW6c7QOhIOvWR4o1WfRvDs91ZJG95I8VraCYEx+fNIsMRfBB2B5FLY525xk4FZvizVdf0S6t7uxazbSpENu8ZtDLcC7kOy3wTNGpRpGRCOCCRkhWZ4sRl3WvC8Wu6jFc3WoXaxRW0sC2YjgkgJkRkaQrJG2X2tgHOMZGNruGjTwoYbK1S317VY763hFu2p7oXuLiIElUl3RlHwTwxXcPm5+d92loy6qujWw8QyWcmp7M3LWMbJCG9EDktgdMk84zgZwMnxPqet6PcwXVm1o2mSIYHQ2pknF052QYJmRSjSMinuCRkhWZ4+6jVrVGqUZJdrpeem2t79d2S0lqSHwbp/wDaVpcLLOLW2tJ7NtPcRyQ3CTENKZS6F3Z2VWYl8krk53Nu2LG0+w2UdsLie4WPIV7h977cnALdWwMDJyxAyxY5J5+C+8S3E0ejfadKg1i2tIru/uvskklv+9aRUjij81WP+qfLsw+6uFO87MfUPHN4uoaaravofh+1uobxJX1SIyBbm1nWF0R/OiDKxZiuQDhMkc4Xb6viK7UHJP7/ADlfRXd1d9+/QV0tTqdV0AahdLeWWo3mkXwQRPd2IiLyxgkhHWVHRgCSQSu5cttIDuGrXfhGCe6jntNU1SwP2WOzufs9wGe7gjLFEeSRWkBHmSfOjI53kliQpGpo97NqWh2N9dWkljPc20c0lrJndAzKCUOQDkE46Dp0Fc94z13XPDtzb3tobd9JkhmieNNPe4uBdeW7QgYmRSrsAgX7zSGNAcy7k82UXGTi+hZFbfDv7DHo66f4q1y1Oj6e2nWzotmx8lmQkNutyCcRRLn0jHcsW0tZ8LSarr9tq9v4g1TS7i1tZLWNbNLZk2yMjOSJYXOSY4+/GwYxk5jg1TXNMufDdr4jOnzTan51tctYROqrdCMzJsDsT5YjimUk/MW8sgKCwHSVIHLeOfDt34otdPsILWzltRdBruW4upInjhYeXMqIqEOXgknj5ZNu8MDkAi94m8Nt4ltreA6zqGmxQTRzlbJYD5jxyJJGW82N/uvGCAMA8g5FVvG/iSbwvpdrewCNgbkmZHiL7oI4ZJ5QuHXa/lwvtJyN20EAEstO+8R6zZ+P7jSGexTTJLSH7PctbOXtrmYyrF5p8wK0Za3ZeNpLSxIOpauyng6lSHOtrN/c0n+ZLkkaFz4WkuNZstUPiDVI7qz0+WxVkS2w/mbd8rAwn5y0cbcYXMY+XBYNWsvBT2Fr4b0+DxBqn9maChAtxIsb3ZUKsIleMLlI1DDZjD/KX3bTuzNK8Q+K9Uj8NPDNoxfVtGfU5Yms5UBZWhPlq/mnYCtwq7ir4KFtp3bR2Gj6nDrWh2Oq2qyJBfW0dzGsgAYK6hgCASM4PqamvhZ0FdtP09Wv0YKSZcorn9S1LVbvX5dE8PzWdncWtrFd3N1fWzTptlaRERI1kQkkwyEsWG3CgBtxKZut+P4vB9rplv4ohjfU57VXuDbXNvbW/mAAP5b3Use8bs8KWZRtLBdy7uUo7KiuWn8eWgutLh0zStU1Yaxp51DT5LOKMJPGCm4EyOvlkLKjZk2qchQS5C1LqHjFtP1Ww0xvD2sT31/ZNdwQwLA3KMgkiZvNCoyeYpLMQhzhXZiFIB0lFc/c+KZLfWbLSz4f1SS6vNPlvlVHtsJ5e3fExMw+cNJGvGVzIPmwGK5Op+KtYv8AwVoviTwz9n06HUZrRPI1ay8+QpczxRRv+6nULhZN+MsSCAdpzQB21Fc3qHiqbRdVsNFudJ1DVdSurJriOTToI1inaNkWUDfL+6xvVv3jBcEKHZyFMh8TJNe+GrixaOfSNeR1hlCMJDIYfPhbBxhDFHNnI3bjGMY3YAOgoorD1DUNSutck0fQpbS1ntraO6uLi8t2nXbI0ioioroScxOSxYYwoAbcSmlOm5vslu+wm7G5RXn+oeObxdQ01W1fQ/D9rdQ3iSvqkRkC3NrOsLoj+dEGVizFcgHCZI5wvaaPezalodjfXVpJYz3NtHNJayZ3QMyglDkA5BOOg6dBW9bCVKMFOfX9G1+ae1/xQlJNlyisjxRqs+jeHZ7qySN7yR4rW0EwJj8+aRYYi+CDsDyKWxztzjJwKzfFmq6/ol1b3di1m2lSIbd4zaGW4F3IdlvgmaNSjSMiEcEEjJCszxchR1NFUdGXVV0a2HiGSzk1PZm5axjZIQ3ogclsDpknnGcDOBk+N/Ek3hfS7W9gEbA3JMyPEX3QRwyTyhcOu1/LhfaTkbtoIAJZdaNKVaoqcN2JuyudJRXH33iPWbPx/caQz2KaZJaQ/Z7lrZy9tczGVYvNPmBWjLW7LxtJaWJB1LVT0rxD4r1SPw08M2jF9W0Z9TliazlQFlaE+Wr+adgK3CruKvgoW2ndtHUsBU5VJtapPr1TfbsieZHeUVT0fU4da0Ox1W1WRIL62juY1kADBXUMAQCRnB9TXPeM9d1zw7c297aG3fSZIZonjTT3uLgXXlu0IGJkUq7AIF+80hjQHMu5OKUXGTjLdFnW0VzcGqa5plz4btfEZ0+abU/OtrlrCJ1VboRmZNgdifLEcUykn5i3lkBQWA0tZ1n+xvsH/Et1C/8Att7Haf6DB5vkb8/vZORtjXHzNzjI4qQNKiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAM3QrmCfTvLgmjke3cxzKjgmNvvbWA6HaynB7MD3rSrjfh/8A8fvi3/sNL/6Q2ldlSWwBWRqugDULpbyy1G80i+CCJ7uxEReWMEkI6yo6MASSCV3LltpAdw2vRTA5+78IwT3Uc9pqmqWB+yx2dz9nuAz3cEZYojySK0gI8yT50ZHO8ksSFIzbb4d/YY9HXT/FWuWp0fT2062dFs2PksyEht1uQTiKJc+kY7li3ZUUAc/rPhaTVdfttXt/EGqaXcWtrJaxrZpbMm2RkZyRLC5yTHH342DGMnNbxz4du/FFrp9hBa2ctqLoNdy3F1JE8cLDy5lRFQhy8Ek8fLJt3hgcgEdTRQBkaroA1C6W8stRvNIvggie7sREXljBJCOsqOjAEkgldy5baQHcNWufBunSR2S2U95pps0lhElpPiSWKVlaZHdgzZkZFZpARLuGQ4JYnoKKAOWtvAsVjo2j2Wn63qlrcaPatZW2oILdpvs7bMxMGiMZH7qLnZu/djnlt3S20CWtrFbxGRkhQIplkaRyAMDc7Esx9SSSepNSUUAUdV0ey1q1WC/SQiNxJHJDM8MsTYI3JIhDocFlJUjKswPBINq2ieC1iilnkuXjQK00oUPIQMFm2gLk9TgAegFSUUAFZHijSp9Z8Oz2tk0aXkbxXVoZiRH58MizRB8AnYXjUNjnbnGDg1r0UAZHijSp9Z8Oz2tk0aXkbxXVoZiRH58MizRB8AnYXjUNjnbnGDg1W13wlF4g1OG6vNSvFhhtZrdbER28luTKjI0pSSJsvtbAJOMZXG13DdBRQBR0bTn0jRrbT5NQvNSNumwXV86vNIB03sqqGIGBnGTjJJOSaOteF4td1GK5utQu1iitpYFsxHBJATIjI0hWSNsvtbAOcYyMbXcNuUVpTqSpS5obiauc+nhQw2Vqlvr2qx31vCLdtT3QvcXEQJKpLujKPgnhiu4fNz877g+DdP8A7StLhZZxa21pPZtp7iOSG4SYhpTKXQu7OyqzEvklcnO5t3QUVr9arb379uv/AA7t2vpYOVFextPsNlHbC4nuFjyFe4fe+3JwC3VsDAycsQMsWOSaHiTQB4k0yKybUbzTxHdQ3QlsxFvLROJEB8xHGA6q3TnaB0JB16K523J3YzI1PSp9R8RaLdM0a2emvNdEAkSNOYzDGOmCmyWcnodwjxxuB16KKQHP+IfB9p4mvYZdTu53t4YXRLF4YJbfewI84pJG2ZFyNpzgYIxhnDU7fwDFHHeLeeINZ1A3VjHZGS6eAyRCJmaKVXWIN5qM7Mrkk7jk5IBHWUV1xxleMFCMtF5Lvf8AMnlV7nLjwLBH/ZC22s6rbQ6Vpw02OKF4l8yH5N+5/L3hmESAsjKRtyu05J6S3t4bS2it7WKOCCFBHHFGoVUUDAUAcAAcYqSisqlepVSU3ew0ktjI1XQBqF0t5ZajeaRfBBE93YiIvLGCSEdZUdGAJJBK7ly20gO4atd+EYJ7qOe01TVLA/ZY7O5+z3AZ7uCMsUR5JFaQEeZJ86MjneSWJCkdBRWIzjbb4d/YY9HXT/FWuWp0fT2062dFs2PksyEht1uQTiKJc+kY7li2lrPhaTVdfttXt/EGqaXcWtrJaxrZpbMm2RkZyRLC5yTHH342DGMnPQUUAct458O3fii10+wgtbOW1F0Gu5bi6kieOFh5cyoioQ5eCSePlk27wwOQCL3ibw23iW2t4DrOoabFBNHOVslgPmPHIkkZbzY3+68YIAwDyDkVt0UAc/c+FpLjWbLVD4g1SO6s9PlsVZEtsP5m3fKwMJ+ctHG3GFzGPlwWDVrDwe+mL4W0+G8kudM8PJI0UlwV+0NIIjBCp2IFKCKWYHgNlYzk/NnqaKACsvU9DF/crd2l/d6XehBE1zZiMtJGCSEYSI6sASSCVyuWwQGYNqUVcJyg7xDc58+DdP8A7StLhZZxa21pPZtp7iOSG4SYhpTKXQu7OyqzEvklcnO5t2xY2n2GyjthcT3Cx5CvcPvfbk4Bbq2BgZOWIGWLHJNiirnWqVElN3/p/wCYkkjI8UaVPrPh2e1smjS8jeK6tDMSI/PhkWaIPgE7C8ahsc7c4wcGq2u+EovEGpw3V5qV4sMNrNbrYiO3ktyZUZGlKSRNl9rYBJxjK42u4boKKxGUdG059I0a20+TULzUjbpsF1fOrzSAdN7KqhiBgZxk4ySTknN8Q+D7TxNewy6ndzvbwwuiWLwwS2+9gR5xSSNsyLkbTnAwRjDOG6CitaVWdKXPB2Ymk9zk7fwDFHHeLeeINZ1A3VjHZGS6eAyRCJmaKVXWIN5qM7Mrkk7jk5IBEg8CwR/2QttrOq20OlacNNjiheJfMh+Tfufy94ZhEgLIykbcrtOSeoord43EN35vwXa3btoLlRHb28NpbRW9rFHBBCgjjijUKqKBgKAOAAOMVmeJNAHiTTIrJtRvNPEd1DdCWzEW8tE4kQHzEcYDqrdOdoHQkHXorkbbd2UZGp6VPqPiLRbpmjWz015rogEiRpzGYYx0wU2Szk9DuEeONwJquiT6rrOlXR1a8tbPT3eaSytXMYu5OBH5jqQxRfnJj+6xZd2QuDr0UgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOS8CW08Fz4mknhkjS41ZZIWdCBIv2O2XcpPUblYZHdSO1dbXFX3xA0jwulrp97+8unhM5j+1W1vtQuyqczyxhslW4XcRt5xlc6M3jW1FzpsOnaZqWp/wBq2JvrGS0jQLMgKZBLuvlkLIjZfapyACWIWuqODruEZcuj2+X/AANfTXYTkrnSUVzd14vhntozoNtd6gZ7GO9FxBbiRbaGUN5UrxM6SSA7HOyMFzsIwCVzoeGNTm1rwjo+q3SxpPfWMFzIsYIUM8YYgAknGT6mpnh6lOHPNW1t5/cF02alFcT4y8S61ovirTLDT7q3htL2yuJif7CutSlV4niH3YJAQpEw5IwCnU7gBFqHxX0jR7XSxqcUa319p8N/JbRanZqkKyA42yzTRpKMq4DRlvu5OAy55xnd0Vxt341nXX9EOk2smsaVreky3tpDZ2xFwzI0BDF5HVEQxzk4cJgqBuLMFo1v4n6Fo1rpl1iS5t9TtVu7aUz29ojxsAVIN1LEGODkquWXI3Bdy7gDsqK5aLx9YTyTNDY3n2NdJGr29/K0MMN5BtDfuzJIrAjcN28KEyu4qGQsXni+5i0PR9R/sLVLJNSureJxdQwl7MSzxxqJo/ODAvvwNu8pnLLwVIB1NFYmqeJGsdVOm6fo2oaxdxwpPPHZNAvkI7MqFjNJGDuMcmApJGw5xlc0Z/HloLrS4dM0rVNWGsaedQ0+SzijCTxgpuBMjr5ZCyo2ZNqnIUEuQtAHU0VyXiT4iaf4W+xJq1lcQzXcPneVNdWlv5Xqm+adEdgeCI2fbwTgMhazrPiSQeGdI1zw9Nby2l9e2A3TwOfNt7maOPK/MpRsShgWB6YK88AHSUVm6zrP9jfYP+JbqF/9tvY7T/QYPN8jfn97JyNsa4+ZucZHFaVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHNQ+HzeJFqFjq19pV1JCIJpLQQt5yI7sgIljcDaZHwVwTuOc4GLNx4akn1az1L+3NSS5tLGSyUqtvh/M27pGBiPzlkjbjC5QfLgsDf0f/kEw/wDAv/QjV2t44iokrdrbLa1t7dtPQTSOXsvAsGn2VnbWes6rCtvaR2Mro8Svc28Zby43YR5XaHcBo9j4bJYkAjY0HSE0Dw/ZaRBcz3MNlCsEUlxt37F4UHaqjgYGcZwOcnJrQop1MTVqpqbvd3+f9f1oCilsc/rPhaTVdfttXt/EGqaXcWtrJaxrZpbMm2RkZyRLC5yTHH342DGMnMbeCre2+zf8I/qmoaD9nsobD/QvJk8yCHd5SN58cn3N74IwTuO4tgY6SiucZz9z4WkuNZstUPiDVI7qz0+WxVkS2w/mbd8rAwn5y0cbcYXMY+XBYNSsfh9b6bYWVrY67rEC21lFp80kckKyXdtEWMUbsIwU2CR1DxeW+GyWLAEdbRQByTfDrTZPDeh6NNf6hLDou2OOUtGslzbjg2s21AHgZQgZMDcI13EkZrS8TeG28S21vAdZ1DTYoJo5ytksB8x45EkjLebG/wB14wQBgHkHIrbooA5+78LST3Ud5aeINUsL77LHa3N3bpbM92sZYoXWSFkBBkkPyKmd5zkBQK0/gWIXWly6NreqaKmk6edOtIbMW7okJKEgmaKRiT5UQyT/AAD1bPU0UAYmqeGI9R1U38Op6hp0s0KW12LKRF+1RIzMqMzKWTHmSYaIo/zn5shSubJ4AVvCekeHofEesW9ppPleU8YtTJL5Lo8O8tCR8hjXGAMgfNurraKAMS88P3V9f6LJNruoC20zMk0MTiJr+UBQjTNGFyo+cmNQEYsMjC7Tt0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAUdH/wCQTD/wL/0I1eqjo/8AyCYf+Bf+hGr1JbAFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD//Z)

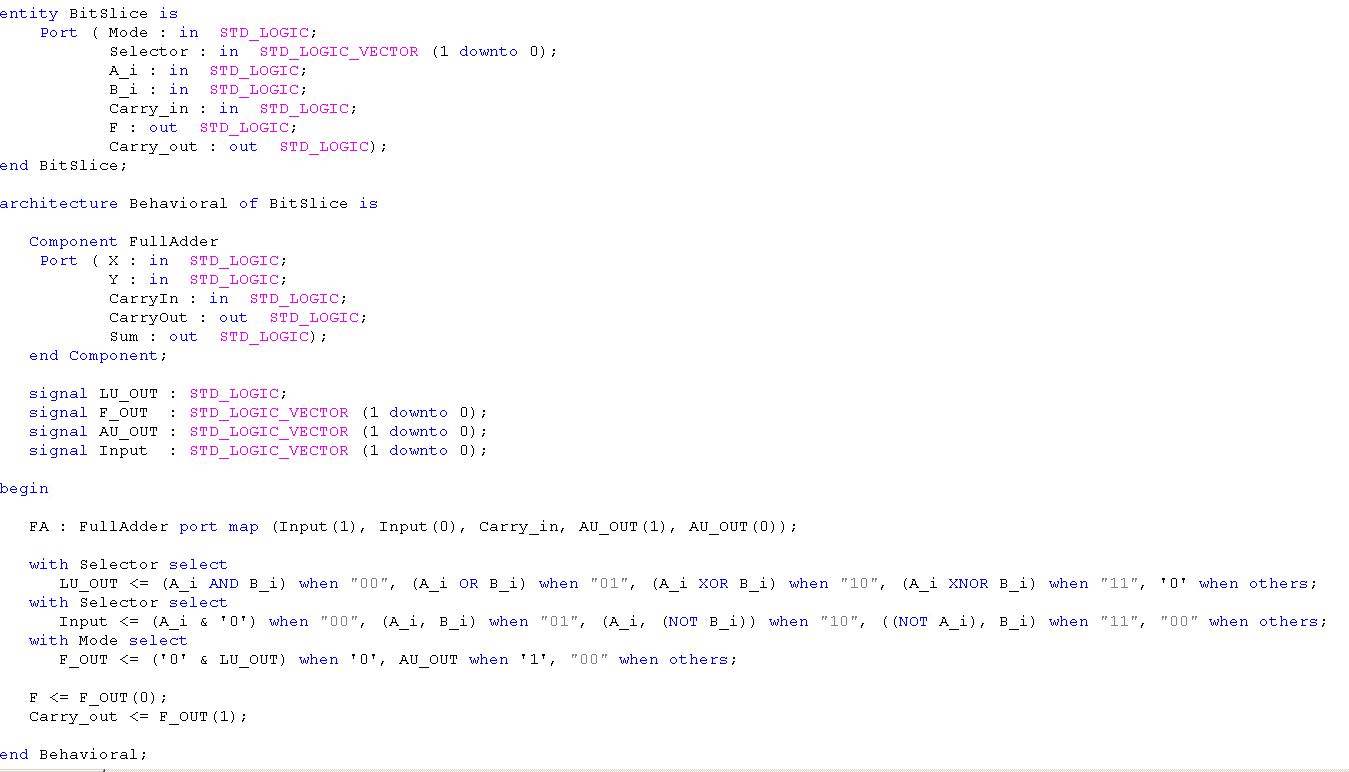
My implementation of the full adder is based on the figure at page 137 in our course textbook.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEF0YWhhbkthbGF5Y2kAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzUzAACSkgACAAAAAzUzAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIxOjAxOjAzIDAyOjIwOjI0ADIwMjE6MDE6MDMgMDI6MjA6MjQAAABBAHQAYQBoAGEAbgBLAGEAbABhAHkAYwBpAAAA/+ELIGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMDEtMDNUMDI6MjA6MjQuNTI2PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkF0YWhhbkthbGF5Y2k8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgA8gIoAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoorG1PXZLPWbbTbW0Wee4jMgMs/lKQDjAODlvarhCU3aJnUqRpR5p7f56GzRVCbW7C3vRaTT7ZiVUgIxVS33QzAYUntkjNVrzxPp1tFdmN3uJLVGZkjicgleo3Y255554qlRqS2iyZV6Ub3kvvNiisO28Tw3FxYoYGijurV7lpJcp5e3GRhgMjn73TirCeJNKe3mnFyRHBH5rl4nU7P7wBGWHuMim6FVbxf9aExxNGW0l/ST/Jo1KKoWGt6fqczxWU5eSNQ5Vo2Q7T0I3AZHuKr634gh0aS0hMRnmuZkjCKcbFLAbicHA5/GkqVRz5LalSr0lTdXmXKupr0Vma/rS6HYRzlI5GkmWJVkl8tcsepbBwAOauWU0txZxy3CRRu4ztil8xcdsNgZ49ql05KHP0K9rB1HTvra5PRRXN23iuSfVEt209VikvJLRZFn3PuQZ3FNo4988U4Up1E3FbE1a9Ok0pvc6SisC08X6fLZQzXha3km8wpEqPKSEYqT8q+2avS6/p0VjFeGZ3t5kLpJHC7jaOpO0HA+uKqVCrF2cWTHE0ZK6mu+/8AXdGjRWTN4n0iCZ4pLsl0jErBInfCEbg2QCMYq5DqVpcXCQQTB5HhE6gA8oeAc9Kl0qiV3FlqtSk7KS+8tUVjap4jh0zW7HT3hL/aSA8obAhycLkY7njtUfiHxNBpFjefZ3V7y3jDBGidkUnoGI4GfQkVcaFSTikt9vyIliqMFK8vh3+65u0Vzmu+K4dN0qd7V0kvYlTKNE7RqzY4LDgHBzjOa1G1uwjvhZvPicsEICMVDEZClsbQT6E5pOhUUVK39K3+YLFUXJx5lpb8b/joy/RVHTtasNWLjT5jN5f3j5bKByRjJAGeKrazrj6ZeWVpBarPNeMwQyS+UgIGcFsHk9hikqU3Pktr9xUq9OMPaX08tfLoa9FZ8ut2Vt563kvky2sCz3CbWby1PuBz0PSs2LxZbx6vqVvfusdvbGLypEic/K65y5GQBkjk4pxoVJJ2W3/A/wAyZ4qjC3NJa6fg3r22Z0VFYo8TWi6rf2c0csaWUSyPP5TlSCCT0Xjgcevaph4k0xrIXaSzPAc4dLaVuAAScBc4wRz0odGqvsv/AIcaxNF395devbc1KKzpPEGmRPAhud7XCK8YijZ8q3AY7QcA+pxVSx8VWV1b3c06y2yW1wYMvG/znOBj5eWJ/hGTQqNVq/KweJop2cl9/wA/yNyisuTxJpUVqtxJdbY2m8jmJ9wk/ulcZB+orRhmS4gSaLJSRQy7lKnB9jyKiUJxV5KxcatObtGSY+iiioNAorK17WZdFto50sjcRs6o7eaECbmCj1J6+nam6rrM+lXdur2SS288yQh1n/eZbuE28gfWtY0ZySa6+nQwniKcG1J7Wvo+u35M16Kw9W1vUNNvIYk02GdLiZYoSLsq7k9Tt2HAHOee1blTKnKKUn1KjVjOTit1vowoooqDUKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsLxLpV9rNv9lt47PyyAVmlZhJC+fvLgHP5it2irp1HTkpLdGdWmqsHCWzOWfwrN/as8rlby3uXjkk826liKsoAztT5X6AjOMVLb6FqFvpN9o++2azmWbyptzeYC5JAZcY4JPOfwrpKK2eKqNWf9W2OeOCoxk5RVt/x3+//hjk5PC99fRWkd89vEsOnyWbmGRnJJCgMMqPTkfzou/DWpajbzG6e0jmGnmyhETsVbJBLMSox06AH611lFV9bqLboT9Qo2s76/okl91jGtNHng8Rrfu8ZiFgtttBO7cGznp0qjrfhKXULhrm01GdJZbiKSRZGXaqof4fkJyOcAnGetdPRURxFSMuZblywlKUHTez8/KxlXUesPFJGkWnToXIVJ2cbo8DG7APzZznjHSneH9KbRdFispJRIylmJUYVcknC+wzWnRUOq3Dk6GqoxVT2j3/AMwrjoPCV9HqRmH2OAnUGujdxO3nGMnPl42jg9+SOeldjRTpVp0r8vUmth4V7c/Q5bR/DF5p91ZSTSwMLeK4RtjE5Mj7hjj061Tbwjqp0WzsPPtJEitpYnjkd9gdmJVwAPmIBxz0612tFa/XKvNzf11/zZh9Qo2tr/XL/wDIo5nSdHOhLd3OrTW4tmsreByGOB5aFWzkDg54p3gvTWs9Me4mLlp22w7xhlgUkRj8sn8a6SipliJzjJPrb8C6eDp05Rcdo3t8zk9S8I3eqf2pPNfmK4umXyUTBjVU/wBXuJXcDnJO0jr3pl34c1may1S3jksidTRGld3YeXIFAYD5eQccHjHpXX0VSxdVWWmn/A/yRMsBRk29bvz73/8Akn95x994X1STT9TsLSS0MN9Ks3mSuwZGAXK4CnI+Xg5/CrP/AAi8q6xPMyx3NtPcrc4e7ljMbDH8C/K3I4JxXT0UfW6trf10/wAkL6hRvdr+tf8A5J/1Yw9I0O7sNDisnv3tpUkkdntQjBgzkgfOh7H0pur6PqF5pj2KyQagkoO578hWjPYr5aAcdemfet6is/bz5+fre/8AXU2+rQ5ORXta2/6bfgcffeFtVeOeO1uref7Tp6WkslwzK25f4hgHOc9/1p0vhrVS2qxRPZ+RqUcUTOztujCptJxtwe+BkfWuuorT65V8v6t/kjF5fR8/v8mv1ZzNx4dvRcamto1u0F/ZJbgyyMGjZUKg4CnIOR3pNS8Pahdafp1rFLbtFb2phmhlZghfYAHwB82OeDiunoqViqiafb/K35F/U6Wq7/53/M5fSNA1TRZoJLdrSbfbRQXKyOw2lONyHbzwehxTP+Ea1BRMqPbEJqX9oW7M7fMc/ccbeB15BP0rq6Kf1qo5c3UlYGkoKCvZf5WOWbwzezXcd5NJbrM+pR3ksasxVUVdoVTjk+5ArqaKKyqVZVLc3Q3pUIUm3Hrv/XzCiiisjcy/EWmTavpJtbZo1fzY3zISBhXBPQH0ql4g0S71e4j+zx2luyMpS/3t58YByQoC/X+LHNdDRW1OvOna3T9bf5HNVw1Orzc3VJP0V/8AN+ZlR6XNJ4jfUrx0eOGIRWiKSdmfvseOp6cdq1aKKiU3K1+htCEYXt11CiiioLCiiigAooooAKKKKACiiigAooooAKKKKACiubtzqGtX2v2i6vdaeLHVEjhktY4SwjNpA5Q+ZG4ILyM2cZ6DOOKsNoGpG2SIeLdYV1dmMwis9zggYU/6PjAwSMAH5jknjABuUVjzaLfy2VtAnifVYZId2+4SK1Lz5ORvBgKjb0G1V98nmo5NA1J44VXxbrEZjTazLFZ5lO4nc2bcjOCF4wMKOM5JANyise70W/ufI8nxPqtp5cKxv5MVqfNYdZG3wN8x77cLxwBUc+galLIGj8W6xCAirtjisyCQoBb5rcnJI3HtknAAwAAblFY99ot/d3sk9v4n1WxjbGLe3itSiYAHBeBm568sevpxR/Yt/wD2l9p/4SfVfJ87zPsnlWvlbc58vPkb9uOPvbsd880AbFFY/wDYt/8A2l9p/wCEn1XyfO8z7J5Vr5W3OfLz5G/bjj727HfPNFjot/aXsc9x4n1W+jXObe4itQj5BHJSBW468MOnpxQBsUVhwaBqUUhaTxbrEwKMu2SKzABKkBvltwcgncO2QMgjIMlpot/bef53ifVbvzIWjTzorUeUx6SLsgX5h23ZXnkGgDYorDj0DUkjmVvFusSGRNqs0VnmI7gdy4twM4BXnIwx4zgiSHRb+KyuYH8T6rNJNt2XDxWoeDBydgEAU7uh3K3tg80AbFFYa6BqQtniPi3WGdnVhMYrPcgAOVH+j4wcgnIJ+UYI5zJ/Yt//AGb9m/4SfVfO87zPtflWvm7cY8vHkbNuefu7s98cUAbFFYbaBqRtkiHi3WFdXZjMIrPc4IGFP+j4wMEjAB+Y5J4xX1i11XT9M017TX7p5YL63jna4Fqou45LmNXVz5YAIRmChNpJIHzEigDpKKK5vw9FeX88upyeItRuIFvruH7FJb20cIEc8kQX5Yy5C7eDvy2ASBkrQB0lFYcGgalFIWk8W6xMCjLtkiswASpAb5bcHIJ3DtkDIIyDJaaLf23n+d4n1W78yFo086K1HlMeki7IF+Ydt2V55BoA2KKw49A1JI5lbxbrEhkTarNFZ5iO4HcuLcDOAV5yMMeM4Ikh0W/isrmB/E+qzSTbdlw8VqHgwcnYBAFO7odyt7YPNAGxRWGugakLZ4j4t1hnZ1YTGKz3IADlR/o+MHIJyCflGCOci6BqQtniPi3WGdnVhMYrPcgAOVH+j4wcgnIJ+UYI5yAblFY/9i3/APZv2b/hJ9V87zvM+1+Va+btxjy8eRs255+7uz3xxUbaBqRtkiHi3WFdXZjMIrPc4IGFP+j4wMEjAB+Y5J4wAblFY82i38tlbQJ4n1WGSHdvuEitS8+TkbwYCo29BtVffJ5qOTQNSeOFV8W6xGY02syxWeZTuJ3Nm3IzgheMDCjjOSQDcorHu9Fv7nyPJ8T6raeXCsb+TFanzWHWRt8DfMe+3C8cAVHPoGpSyBo/FusQgIq7Y4rMgkKAW+a3JySNx7ZJwAMAAG5RWXaR6onijUmuJpJNLkt7drVWEeIpcyiVVwA2MCJvmzyxwew1KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAqRarp0949pDf2slzG5R4UmUurAAkFc5BAIOPQ1brF07Q57PxFfatNeQyvexRpJHHbbMFC20htxP3WwQc8jOQOKbceEdNubmWeS51hXlcuwj1u8jUEnPCrKAo9gAB2oDqSaL9s/tfxD9r8/yf7RT7L5udvl/ZbfOzP8ADv8AM6cbt3fNbFcXpPhGKXU9cS+udfEEN8qWe7W75QYvs0LHafN+YeY0nPPOR2wNT/hC9L/5+tc/8H99/wDHqAOgppljEoiLqJCNwTPJHrisH/hC9L/5+tc/8H99/wDHq4+++Gukn4vaTei+1gb9NuZCp1OcvmNokAEpbzACLhiQGHQdiQQD1Ciuf/4QvS/+frXP/B/ff/HqP+EL0v8A5+tc/wDB/ff/AB6gDoK4/U9Z1Q6fIUu1s5bLWBaXbQQhyYZCBEQGzg4mhLHno3Ttof8ACF6X/wA/Wuf+D++/+PVyWs+F7OG78VwWlxqiy2+jw30LS6vduvnH7QAXBkO8DyE4bPHGKAOqFrrScpr8rn0mtYiP/HQp/Wmi68UWoYk6VqY3fKu2S0YL9cyAnr2APt1rRjfzIkcDAZQcU6t+VHNzyKtt4qtTcra6rBPpNw7bYxdgCOU9AEkUlCT2XIb2rcrJuLeG7t5Le6hjmhkUq8cihlYehB61lWdzL4X1CCzuJml0a6kEMEkr5azlPCxljyUY8KTyGIHIYbc5QtqjWM76M1tS11NN1WysGsbyeS+DCF4VQpuUZKklhg7cnnjAPOcA5niHX7m0vJLa1eWBYWtw8kdm8xcySBcAgEDC568kkYxjnYutDsL3UIb26ikkuIHDxN5zgRkAjgA4GQSCMYPfOBSajoltqTiSR5oZRsy8L7SwVtygjkHBGRkcZOOpqOxr1KcPiRIfD97qN/FKRp7sk5jhZCwXB3hHwQNpBwenPWtWyvEvoGliR0VZXj+cYyVYqSPY44qpdaNHLo76ZbskdvPuW481TI0iMDv5LfeOfvHP0q/bwRWttHBboI4olCIo6ADoKYiSsfxPafbdIgi+0QW+3UbGXfO+1Tsuon2g/wB5tu1R3Ygd62Kw/F0ay6LbrJNHCBqmntukDEEi8hIX5QTkkbR2yRkgZIQG5WP4Y+x/2RP/AGd5/k/2jfbvPxu8z7VL5mMfw7923vtxnnNbFYfhFoW0W4NtHJGn9qagCJHDkt9sm3HIA4LZIGOAQMnGSAblFFFABRRVCx1zStTvruy0/ULa5ubJtlzDFKGaE+jAdOhH4GgC/RRXFa3c340vVo5byaM6ZqMc5eOUxM9o5VmBZcEBQ0gHr5QyetAHa0VzI0MLzHqeqofX7dI36MSKQWWuW25rLxDLMT92PULWOVF/79iNvzY1fIzP2kTp6K5tfEt7pzAeItN8qHPN9ZMZoVHHLrgOnX0ZRjlhXQwzRXECTW8iSxSKGR0YMrA9CCOoqWmi009h9FZOuXcsM+l2kRZBfXghkkQ4KqI3kOD2zsx+NQ6Pr1zqepapaTWMMA06doWdLrzDIdqspA2j+FhnPQ8c9aQ9v6/rsSW1jcx+N9Tv3jxaz6dZwxybh8zpJcs4x14Eic+/sa2K8/8A7d1byv7T8nUPM+wfa/K8yHyc7vubd/THy5xuz+VdLqXiBrDWrTTfsfmPeRb4j5u0tiRFcYx1Cvu+gPTrTs9A6m3RXNLq93beHtUZQ001jdtbRu2CSu5drEkgHaH5JPO05NUtM1HUbfWzFKmoPHJf/ZmF1JEwx5IfI2sSGBycKNuCeOBhLX+v67h/X3HZUVm21/fz69dWrWduLGFRtuUuWZy5AO0x7AB68OeMcDNaVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGNaa+114iutJ+ybXtpMO/m5+TYrK+MdCWK49VPXsy48beFbS5lt7rxNo8M8LmOSKS/iVkYHBUgtkEHjFaVnYJZyTSmR555jmSaQLuYD7q/KAMAHA4/Uk1aoA4fRfGHhe01fxDNceJ9DSO81FJoG/tOA70Frbxk8Px80bjB9PQipLD4t+CdQ1e809NetYHtDgzXEqxwy84PluThvw69RkVsaBA0WteJ3YxkTaojrtkViB9jtl+YA5U5U8HBxg9CCanhixtIfFPi+6itYUuJNUjR5VjAZl+x2zYJ643Mx+rE96AJ/wDhPvB//Q2aH/4Mof8A4qsO78beFW+IGk3C+JtHMEel3sbyi/i2qzS2pVSd2ASFYgd9p9K7yufvP+Sk6N/2Cb//ANHWdAB/wn3g/wD6GzQ//BlD/wDFUf8ACfeD/wDobND/APBlD/8AFV0FFAHP/wDCfeD/APobND/8GUP/AMVXI634y8OvfeK7i117S7ozaDDb20UV9GzTyg3RKIAeSfMQYHcivTq4nVbW+XT7ySazuidT1hGmWCPzWitoioHAydriEcDJHndsHAB0MSeXCiE5KqBn8KfWYNaL/wCp0rVZD6fY2T9XwKaLvXrpSLLw+1ud2A2o3ccYIz1Ai8w/gQPwro5kc3LI1awii+L7xbaNBJodvKHuZj927kQgrEn95AwBY9DjbzlsXR4Yn1HP/CSX/wBshP8Ay5W6GGAj0fks/wBCdp7rXQRxpDEsUKLHGgCqijAUDoAKzlO+iNIwtqzB/wCEB8H/APQp6H/4LYf/AImj/hAfB/8A0Keh/wDgth/+JroKKzNTn/8AhAfB/wD0Keh/+C2H/wCJo/4QHwf/ANCnof8A4LYf/ia6CigDn/8AhAfB/wD0Keh/+C2H/wCJrL8Q+A/Bi6ZEZND0fTx9utB50emRksTcx4j+Vc4c/uyegDknjNdpWH4uELaLbi5kkjT+1NPIMaByW+2Q7RgkcFsAnPAJODjBAI/+EB8H/wDQp6H/AOC2H/4msvw94P8ABmoaZLNH4P0eILfXcO2S0jlJMdzJGTllyASuQvRQQo4ArtKw/CMiy6LcNHDHCBqmoLtjLEEi8mBb5iTkkZPbJOABgAAj/wCEB8H/APQp6H/4LYf/AImj/hAfB/8A0Keh/wDgth/+JroKqHVdPVirX9sCDggzLx+tAGV/wgPg/wD6FPQ//BbD/wDE1z2gfDTwbb+I/EDjw7YSj7SgWO4hEqRgxq5CK2QvLnoBxgdq7b+1tO/6CFr/AN/l/wAax9J1TTxruuk31sA1zEQTMvP7iP3oAf8A8ID4P/6FPQ//AAWw/wDxNc3qvgPwsNX1iNfDulxpLowMYSyiAjdWly6/L8rfOvI67V9BXc/2tp3/AEELX/v8v+NcrrWu2MWpeIbj7TC6WuiLs2yg73YzEooHJPypx/tCgDbsJWm022lflnhRj9SBVioLKE29hbwt96OJUP4DFT10nIFYT/8AFJ3ZvrTC6PPJ/ptsPu27Mceeg7DJ+demPm4IO7ammit4XmuJEiiQbnd2Cqo9ST0rItYpPFd5DOUaPQ7eRZU3qQ19IpypwekSkAg/xkD+EfNMrW1Lhe+hcvfEPhm+hEc2sWg2uHRllXKMOhH+eQSKbaa34QsGJsbvS7YlFQmHYmVXoOOwycDtXRUVgdBya614IbWZGW9sPtcarM3z/KNzNhv7pbKMeOR1PUVZ/t7w4dSN7LrttLIFKwh5ExACBu24GecDOSfwHFW7aG3XxvqcyXW66fTrNJLbyyPLQSXJR93Q7izjHbZ7itigDnrbX/DFrZm2XVrN0YsZN8qkyFiSxb1ySais9U8HafO01pfWEcjfxedkjgDAyeBgDgeg9K6aigDmbbVfB9nqM19aX9hBcT5MrRzbQ5OMsVBwWOB82M8davf8Jd4f/wCgxZ/9/RWxRQBj/wDCXeH/APoMWf8A39FH/CXeH/8AoMWf/f0VsUUAY/8Awl3h/wD6DFn/AN/RR/wl3h//AKDFn/39FbFFAGP/AMJd4f8A+gxZ/wDf0Uf8Jd4f/wCgxZ/9/RWxRQBj/wDCXeH/APoMWf8A39FH/CXeH/8AoMWf/f0VsUUAY/8Awl3h/wD6DFn/AN/RR/wl3h//AKDFn/39FbFFAGP/AMJd4f8A+gxZ/wDf0Uf8Jd4f/wCgxZ/9/RWxRQBj/wDCXeH/APoMWf8A39FH/CXeH/8AoMWf/f0VsUUAU7fVbS+sZbrTZlvUjyD5DBssBnaPfkfnVTw3rb+INNS/EEMUEqK0Zjn8w7ud6MCqlWUjBHrWheWxu7VoVnltyxBEsJAZcEHjII7elQaXpMGkx3AgaR2uZ2uJXkxlnbGTgAAdB0H680LqDL1FFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBj6LafZtX8Qy/aIJftWopLsifc0WLW3Ta4/hb5N2P7rKe9V/Dn/Ie8Wf9haP/wBIbWpNAjVNa8Tss0chk1RGZVDZiP2O2G1sgDOAG4yMMOc5Aj8Of8h7xZ/2Fo//AEhtaAOgrn7z/kpOjf8AYJv/AP0dZ10Fc/ef8lJ0b/sE3/8A6Os6AOgooooAKKKKACiiigAooooAKKKKACiiigArH8T/AGP+yIP7R8/yf7RsdvkY3eZ9qi8vOf4d+3d325xzitisPxc0K6Lbm5jkkT+1NPAEbhCG+2Q7Tkg8BsEjHIBGRnIANysfwxd/bdInl+zwW+3Ub6LZAm1TsupU3Ef3m27mPdiT3rYrD8IztcaLcPIIwRqmoJ+7jVBhbyZRwoAzgcnqTknJJNAG5XP+GtNsZfD1s8tlbu7FyWaJSSd7d8V0FZHhb/kWrX/gf/obUAXP7J07/oH2v/flf8Kx9J0vTzruug2NsQtzEADCvH7iP2ro6x9I/wCQ9r//AF9Rf+iI6ALv9k6d/wBA+1/78r/hXK6l4VnNhfSW2n28lxeanHMyR7FK20ZUBFLAAFlj5HHMjc12tFAHOC51p8+XoDoe3nXcYB/75LU0W3iq6VgV0nTPm+V98l2SvrtxEAfxIHvXS0VXOyOSJhQeFLVpln1i4n1aZSGUXRHlIRyCsSgLkEcEgsPWt2iipL2CiiigDDtBD/wsDVmWSQznS7IOhQBQvm3W0hs5JJ3ZGBjA5OeNyse2+x/8Jvqfl+f9u/s6z87djyvL8y58vb33Z8zOeMbcd62KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMfRYbeLV/EL29158kuoo88fllfIf7LbqEyfvfKqNkf38dQar+HP+Q94s/7C0f8A6Q2tSaAIRrXicwySM51RDKGQKEb7HbcKcncNu05IHJIxxkx+HP8AkPeLP+wtH/6Q2tAHQVz95/yUnRv+wTf/APo6zroKz9U0DR9c8r+2tJsdR8nPlfa7ZJfLzjONwOM4GcegoA0KK5//AIQHwf8A9Cnof/gth/8AiaP+EB8H/wDQp6H/AOC2H/4mgDoKwfEL3T6jplra309mkzSmRoNu5tq5A+ZT3pv/AAgPg/8A6FPQ/wDwWw//ABNULjw3oeieJdJl0bRtP0+SQTK72lqkRYbQcEqBkU1uKWxb/su9/wChg1T84f8A43R/Zd7/ANDBqn5w/wDxutKit+VHPzS7mU+mamMNb+JdSR1OcSRwOrexBjzj6EH3q3o+s3TXv9la4kSX4QyRTQAiK6QYBZQSSpBIypJxkEEjparG8TtHa6bDqjukTabcx3Ilc4CLuCyZPYGNnH41MoqxUZu+poavrtzpuuabp8NlDOuoeYqyvdeXsZBu5XacjaDyO+BjnIdomvtrF1cwG08k2skkcp83dtdZGUDoPvKA30P55s/inwBczGeTxB4cNxlWE5vLcurKCFYEk8jJx6ZNOsfGHgqwgKR+LdFd3YvLK+owbpXPVmwQM8dgB2HFYo3fkdTRXP8A/CfeD/8AobND/wDBlD/8VR/wn3g//obND/8ABlD/APFUAdBWP4nmt4NIge8tftUZ1GxQR+YUw7XUSo+R/dYq2O+3B4NR2/jbwrd3MVva+JtHmnmcRxxR38TM7E4CgBskk8Yo8XSLFotu0kMcwOqaeu2QsACbyEBvlIOQTkdsgZBGQQDcrH8MX1zqOkTzXknmSLqN9CG2gYSO6ljQceiqoz3xzzWxWP4Y+2f2RP8A2j5/nf2jfbfPzu8v7VL5eM/w7Nu3ttxjjFAGxWR4W/5Fq1/4H/6G1a9ZHhb/AJFq1/4H/wChtQBr1j6R/wAh7X/+vqL/ANER1sVj6R/yHtf/AOvqL/0RHQBsUUVk+JLy6stLjawlWGaW6hh3sm7aHkVTx9DQBrUVz3k63/0Gx/4CJ/jR5Ot/9Bsf+Aif41fIyOeJ0NFc40WvBSYtbi39vNsQy/iAwP6in6fr91Hqcel6/bxwXE+fs1zASYbkgZK88o+ATtJOQCQTg4Ti0NSTOgorM1jUHtJNPtYDslv7oQK+AdgCM7HnvtQge5FM0zX01O+v7VLG8gawlaGZ5lQLuADDGGOdysGGO3XB4qShttDt8b6nP9mnXfp1mn2hj+6kxJcnYo2/eXdk/MeHXgdW2K4f/hL7z/j/ACZ/I+x/bPsv9ny42Zzt34+9t/iztz2xXR32v21jqMVjLFcNLNGJIyigggyJGep6gyKT7flTsw6/1/XU1aKytL1OWexvfOVpp7GeSBwgAMu3lSM4GSpX0Gc9KsaTqLarpsd41lcWXmE4iuChbAOM5RmUg9QQelIC7RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAY+i/Y/wC1/EP2Tz/O/tFPtXm42+Z9lt8bMfw7PL687t3bFY9nrMOh+JPEseoWeq/6TqMc0L2+k3M6SJ9kt0yHjjZfvIwxntWpoDQnWvE4hjkVxqiCUs4YO32O25UYG0bdowSeQTnnA3KAOf8A+E00v/n11z/wQX3/AMZo/wCE00v/AJ9dc/8ABBff/Ga6CigDn/8AhNNL/wCfXXP/AAQX3/xmj/hNNL/59dc/8EF9/wDGa6CigDn/APhNNL/59dc/8EF9/wDGaoXGvWer+JdJjtYdQjZBMxN3ptxbAjaOhlRQT7DmuvrF121vpL7TrrT7Zbn7O0m9DKEOGXAIJprcUtUWKKoedrf/AEBB/wCBaf4Uedrf/QEH/gWn+FbcyOfkkX6x/EDG4FjpUJ/f391GMYziJGDysfQbVK59WX1qd5PELrtttGt1kPRri+wo/wC+UY/hj8at6NoT2N1LqGpXIvNSnUI0qpsSJM58uNcnC55JJJJ6ngAKUlbQqMHfU2KKKKxNwooooA5/xp/yAbb/ALC2m/8ApdBVjxPd/YtIgl+zwXG7UbGLZOm5Rvuok3Af3l3blPZgD2qv40/5ANt/2FtN/wDS6CpPF07W+i27xiMk6pp6fvI1cYa8hU8MCM4PB6g4IwQDQBuVj+GPtn9kT/2j5/nf2jfbfPzu8v7VL5eM/wAOzbt7bcY4xWxWP4YsbnTtInhvI/LkbUb6YLuBykl1LIh49VZTjtnnmgDYrI8Lf8i1a/8AA/8A0Nq0rq5is7Sa5uG2xQxtI7YzhQMk/kK4fwF8QvDWqeGA8Opxw+VcTIY7j92ygyFl4PUbWWgDvaxr3wppl/fy3kr6jDNNjzDaapc26sQAASscirnAAzjtS/8ACXeH/wDoMWf/AH9FH/CXeH/+gxZ/9/RQBX/4QvS/+frXP/B/ff8Ax6szXfC9hp9vZXMFxqryJqFrgT6xdzIf3y9UeQqfxFbf/CXeH/8AoMWf/f0VleIPEWj31rZ29nqVtNM+oWu1EkBJ/fLTW4nsbdFFFdByhWdrtidQ0W4hiOy4VfNt5AMmOVfmRh9GANaNZ+u3/wDZmhXd2ql5EjIijU4Mkh4RB7liAPc0Aty5EIvEeh6bqETCNpEivLeRfm2Fkz2PIKsRweh61Pp+iWGlzTTWUTpJOB5rPM7lyBjJ3E5bGMt1OBknArGsPh14TtdNtrefwxos0kUKI8j6fEzOQACSSvJPXNWP+EB8H/8AQp6H/wCC2H/4muY6yVdC0ptSeNZ3LRxqz2Qn+VUZiVyvUKWVsD7p2kY4q1JpK3GtxajdmKRrVWW0AiwYtwG8k5O4naOgGB69a5y38KeFZfF2oaW3hHQBBbWNrcIw02LcWlknVgTjGMQrjjuevbU/4QHwf/0Keh/+C2H/AOJoAvpotudJuLC4aSRbsu1w6O0bOXPzYKnK+gweABzVmwtDY2iwG5nudvSSdgWx6ZAFY/8AwgPg/wD6FPQ//BbD/wDE0f8ACA+D/wDoU9D/APBbD/8AE0AdBRXP/wDCA+D/APoU9D/8FsP/AMTR/wAID4P/AOhT0P8A8FsP/wATQBH8QIJJfBN9NC86tZhbtlglMZkSJg7pkEZ3KGGM9xVRPCukvGslu+oRhwCHg1S5jJB91kBxVu5+HvhCa1liTwtoqM6MoZdPiBUkYyCF4qDwfcPd+B9CuZv9ZNp1vI2PUxqTWkDKpdbB/YV5bkNpviLVrcj+CaVblG+vmqzfkwNPGta9pPOsWMWp2o63WmIyyqPUwMST/wAAYn0WtaircUzNTaLOn6jZ6rYpd6dcJcQSfddD37g+hHQg8g9ap6lcy/21pdjGzJHO0ksjKSNwRRhc9slgfcKRWBrCf8IzPN4m04bIkHmarbKPluYgOZAP+eqAZB6sBtP8JFq98XeBtSjjFz4o0NgjblzqEJ4IIIIJwQVJBB7GsZJpnRGSkixpXiW81HSdTu5dNihewaaLyorrzjI8ZPT5RwQBgnB5PHGTjw6tqlvftcML+X5LRmDyQmJ/NdlOFDnA6bdvPAznJzp23i/wHZGQ2fiHw7bmQgv5V7Au7AAGcNzgAD6Cq8PiL4eW959qh1/w+k3YjUYsL15A3YB+Y9B3PrQt/uG9TVv9da11+LSPsm97iNXiYTbS437ZMDH8AIbryPSo9P1S6Hhy8nKxzz2c88CGaQosuyQqpZgrHoBkhSc54NUl8W+C/wC0JLyTxjo8kxUpEX1C3/cKcZCYPcgE5z+WBTG8SfD6XSTptz4h8P3Fq3LRzahCwds7ix+b727nPrzS6f1/Wg+v9f1qdDbXV62kxXF5p+y7ZQXtbeYSbSewZggP44qHQdSuNU01J7qzkt3OeXKYbkjjax9O9Ztr408FWdskEHivRRGnTdqsbnrnklyT+NOHjfwSIDCPE+gCIggoNQh2kHqMbqH5CXmV08ZXC2uoXN1pkMcWn3ws5yl7vwC6gyD5B8oVwxzg5yPeujsLl7ywiuJIfJaRd2zdnA7c+45/GuVk174fMojh8SeH7aFtomhgvLZVnVRhVfuQMDABHTHTitL/AIT7wd/0Neh/+DGH/wCKo6B1OgorDPjLw8+lXuoWOr2eoQ2ShphY3CTMpbhRhSeWIwM9TV6zuNRlmT7ZYRW8TRliy3O9kbIwpG0dieQTjH40AXqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDH0Wa3l1fxClva+RJFqKJPJ5hbz3+y27B8H7vysi4H9zPUmtiubMHiLT9Y1SXStJ0e4t724WcSzalNDIxEMcZ3r5Mgz+7wNpAwBxnJNz7T4k/tLZ/ZOlfYfOx539qSeb5efveX9nxuxzt34zxu70AbFFY/2nxJ/aWz+ydK+w+djzv7Uk83y8/e8v7Pjdjnbvxnjd3osbnxJJexrqek6Vb2pzvkt9UkmdeDjCG3QHnA+8PXnpQBsUVhwXfippCLnRtHjTYxBj1eVyW2naMG2HBbAJzwCTg4wZLS58SP5/27SdKh2wsYfJ1SSTfJ/CrZt12qecsNxH900AbFFYcd34qMcxm0bR1cJmILq8rB23Dhj9mG0bdxyAeQBjnIkhufEjWVy1xpOlJdLt+zxpqkjJJz829zbgpgcjCtnpx1oA2KKw1u/FX2Z2bRtHE4dQiDV5SpXB3Et9myCDtwMHOTyMcyfafEn9m7/7J0r7d52PJ/tSTyvLx97zPs+d2eNuzGOd3agDYorDa78VfZkZdG0czl2DodXlChcDaQ32bJJO7IwMYHJzxJNc+JFsrZrfSdKe6bd9ojfVJFSPn5dji3JfI5OVXHTnrQBsUVhyXfioRwmHRtHZymZQ2ryqEbceFP2Y7ht2nJA5JGOMmS7ufEieR9h0nSpt0KmbztUkj2SfxKuLdtyjjDHaT/dFAGxRWHPd+KlkAttG0eRNikmTV5UIbaNwwLY8BsgHPIAOBnAkvrnxJHeyLpmk6VcWoxskuNUkhduBnKC3cDnI+8fXjpQBX8af8gG2/wCwtpv/AKXQVY8T31zp2kQTWcnlyNqNjCW2g5SS6ijcc+qswz2zxzWH48uNeWxjS103TpLMappxjmk1CRJGb7XCQCghIA38Z3HA5wT8taGqJ4qv50tra1060tFvoJDdR6pL5zQxzo7DyxABl0UqV34+YjJHUA6SsPwjA1votwkhjJOqag/7uRXGGvJmHKkjODyOoOQcEEVuVy+nWniTRbCa2s9P0q736jeXAaXUZIv3cs7SpwIG+b94wI6DaCCc4AB07KHUq4DKwwQRkEVgeCbG007wysFhbQ20IurnEcKBF/17joPYAfhVia58SLZWzW+k6U90277RG+qSKkfPy7HFuS+RycquOnPWsbw/deJk0GH7FpGky5muDL5uqSR7H+0SZC4t23DGOTg8njjJAOxorHu7nxInkfYdJ0qbdCpm87VJI9kn8Sri3bco4wx2k/3RUc934qWQC20bR5E2KSZNXlQhto3DAtjwGyAc8gA4GcAA3KxvFENxNpMRs7aS6kiu4JTFEV3FVlUnG4gdAe9Mnu/FSyAW2jaPImxSTJq8qENtG4YFseA2QDnkAHAzgSX1z4kjvZF0zSdKuLUY2SXGqSQu3AzlBbuBzkfePrx0oAp/2pe/9C/qn5Q//HKP7Uvf+hf1T8of/jlXPtPiT+0tn9k6V9h87Hnf2pJ5vl5+95f2fG7HO3fjPG7vR9p8Sf2ls/snSvsPnY87+1JPN8vP3vL+z43Y5278Z43d6vnZn7NFGTVb9YyY/Deqyt2QGAZ/EygfmakstHvtQ1KHUNeWOGO1bfa2Eb7wr8jzJG6MwB4UcLknLHBFqxufEkl7Gup6TpVvanO+S31SSZ14OMIbdAecD7w9eelRwXfippCLnRtHjTYxBj1eVyW2naMG2HBbAJzwCTg4wU5NjUEjcorHtLnxI/n/AG7SdKh2wsYfJ1SSTfJ/CrZt12qecsNxH901HHd+KjHMZtG0dXCZiC6vKwdtw4Y/ZhtG3ccgHkAY5yJLC0nZviBq0BEexNLsnBEahiWlugctjJHyjAJwOcYyc7lY+kf8JDJqV3NrsdjbWrQxJbW1pctPtcGQyOWaKM8howBz9w9M1sUAYeoeJJLTW5NLstD1HU54beO4la1a3VUWRpFUEyyoScxP0B7VH/wkeqf9CZrn/f6x/wDkmiz/AOSk6z/2CbD/ANHXldBQBz//AAkeqf8AQma5/wB/rH/5Jo/4SPVP+hM1z/v9Y/8AyTXQUUAcrqfizUrLSLy6k8Ia1CsEDyNI81ltQKpOTi4JwMdgTUvhqyOm+E9IsWyTbWMMJz/soB/SrHjLTr/V/DE1hpkcMrTvGs0c0hQPDvBkUHB5ZQV545/CqZl8VvxFoOnKe5m1VlX/AMdhY5/Crg0tzOab2Neori4htLaS4u5o4IY1LPJIwVVA7knoKzxp/iu6OJbvSdOTv5UUlyx+hYoB9SD9KntvB1gLiO51ea51m5jYOj37Bkjb1WJQIwR2O3PvVuaIVN9TNghm8ZXMTtE8Ph6F1k/eqVbUWByvynkQggHn7/H8P3uyoorJts2SSVkFFFFIYUUUUAFFFFABRRRQBT1bS7bWtLmsL0MYZgMlGwykEEMD2IIBH0p9naSWqnzr24u2IA3z7ARj2RVH6VZooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOf8af8gG2/wCwtpv/AKXQV0FZ+t6QmuaWbKS5ntf30MyTW+3fG8UiyIRvVl+8g4INZ/8Awjmqf9Dnrn/fmx/+RqAOgorn/wDhHNU/6HPXP+/Nj/8AI1H/AAjmqf8AQ565/wB+bH/5GoA6Csfwr/yAR/19XP8A6Pkqv/wjmqf9Dnrn/fmx/wDkasrw34f1KTRQyeL9ZiH2i4G1IbLHEzjPNuTz1/Ht0oA7Wiuf/wCEc1T/AKHPXP8AvzY//I1H/COap/0Oeuf9+bH/AORqAOgorn/+Ec1T/oc9c/782P8A8jUf8I5qn/Q565/35sf/AJGoA6Ciuf8A+Ec1T/oc9c/782P/AMjUf8I5qn/Q565/35sf/kagDoKK5/8A4RzVP+hz1z/vzY//ACNR/wAI5qn/AEOeuf8Afmx/+RqAOgorn/8AhHNU/wChz1z/AL82P/yNR/wjmqf9Dnrn/fmx/wDkagDoKK5//hHNU/6HPXP+/Nj/API1H/COap/0Oeuf9+bH/wCRqACz/wCSk6z/ANgmw/8AR15XQVj6R4fOl6ld39xqt9qd1dQxQtJdiFdiRmRlAEUaDrK+Sc9q2KACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoqpHq+mzapLpsOoWsl/Cu+S1WZTKi8clM5A5HbvVugAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKxPCUiyaA23+C9vI2z2ZbmVT+oNbdc/4L/5ANz/ANhbUv8A0unoA6CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAy7K01GHWrue7e1mt5uYnRWSSMcYQgkgj7xLZGSRxxUV54V0++vJLma41ZZJDlhBrN3Cg+iJKFH4AVp3V5bWUPm3txFbx5xvlcIM+mTTINRsrqRUtry3md08xVjlViy5xuGD0zxmq5ZWvbQhzipWb1Mj/hC9L/5+tc/8H99/8eo/4QvS/wDn61z/AMH99/8AHq149SsZWlWK8t3aEZlCyqSg9Tzx+NH9o2WyJ/tlvtmUtG3mrhwBkkc8gDmjll2D2ke5kf8ACF6X/wA/Wuf+D++/+PUf8IXpf/P1rn/g/vv/AI9WpDq+m3Mcj2+oWsqRLukZJ1YIPU4PAqW0v7O/RnsbqC5VThmhkDgH04ocJLdAqkJWs1qY3/CF6X/z9a5/4P77/wCPUf8ACF6X/wA/Wuf+D++/+PVttcwJcR27zRrNICUjLgMwHXA6mm3N7a2e37XcwwbzhfNkC7j7ZpcrfQblFXbexjf8IXpf/P1rn/g/vv8A49R/whel/wDP1rn/AIP77/49XQA5GRyKKRRz/wDwhel/8/Wuf+D++/8Aj1H/AAhel/8AP1rn/g/vv/j1dBRQBz//AAhel/8AP1rn/g/vv/j1H/CF6X/z9a5/4P77/wCPV0FFAHP/APCF6X/z9a5/4P77/wCPUf8ACF6X/wA/Wuf+D++/+PV0FFAHP/8ACF6X/wA/Wuf+D++/+PUf8IXpf/P1rn/g/vv/AI9XQUUAc/8A8IXpf/P1rn/g/vv/AI9R/wAIXpf/AD9a5/4P77/49XQUUAc//wAIXpf/AD9a5/4P77/49R/whel/8/Wuf+D++/8Aj1dBRQBz/wDwhel/8/Wuf+D++/8Aj1amlaVaaLpy2OnpIkCu8n7yZ5WLO5dmLuSzEsxOST1q5RQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHOeNrS5vdHtorOJ5JPtkR+WMvtGfvEDsKyr/RtUl8QXEcOTI+jvCt1HCYoy5kztHUA49/euxu723sUje6k8tZJFiQ7ScsxwBx71PXZTxM6cEktNf0OCtg6dao5OWun4N/n3ON0s3JtRpFtoL2KGwaOaaSHb+9xjAYcMD1zVC2s9QurLTLY6bdQtplncJM0seAzNGVUJ/ez7V6DVS11GK7vry1jVw9myrIWAwSy7hjn0q1ipe84x8+vmv1MngorkjKe2i0Xk7f+S3+/yt59p+i6jDay/a7KdnbRXjgMduV2sc5Rx1Len8q6jwUssOiJbzrdrLHGgZbm08kKduNqnaN2MdTk10lFKtjJVouMluPD5fHDzjKMttPy/wAjh1staXx5p19e2AckSiSWOVmRUIwBnbhcDoO5zzzUfia3vtVvlubezvLWN7CSIEW5dpGLf6plGdgOM7uOvWu8qFbuBrx7VZAZ0QOydwpOAf0NOOLlzKSjsrfLX/MJYCPJKDm7Sd+m+np2I9LWRNItFmgFvIsKBoQ2RGcdM+1WqhubuC0RGuZBGrusak92Y4AogvILmSeOF9zW7+XINpG1sA4568EdK45c0rysd8eWCUL/ANf0iaiiioNAoqnqOpx6cIA8Us0lxKIoo4sbmbBP8RAHAPU0l1qcdtqFrZeVLLPcglQm35VGMsSSOBkdMn2q1Tk7WX9IzdWEb3e1vx2LtFVNU1GLSdNmvrhXaKEAsIwCx5xxkj1osNSh1FroQK6/ZpzA+8AZYAHIwenNHJJx5raA6kFPkb1/4f8AyZbooqpZ6jFfXF3DErhrSXypCwGCdoPHPTmpUW02uhTkk0n1LdFVNN1GLVLU3FurqgkePDgA5Vip6E9xVuiUXF2YRkpLmjsFFFU7nVrKzlkjuZxG0UYkfcpwFJwDnGOtEYuTskEpRirydi5RVSDUYbjU7uxRXEtqELkgbTvBIxz7VLPdwW0kKTyBGnfZGD/E2M4H4A03GSdrCU4tXvp/SJqKKKksKKqXOow2uoWdnIrmS8LiMqBgbV3HPPpVum4tJN9SVJNtLoFFY/8Awklqbj7PHBcSTfa2tFRQoLMq7iQSwGAPx9q2KqUJQtzImFSE78rvYKKqajqMWmW6TTq7K8qRAIATlmwOp6c0XeoxWV1Z28quXvJDHGVAwCFLc8+goUJNXS/pBKpCLab2t+OxboooqDQKKKKACiqkmoxR6vDpzK/nTRNKrADaApAOec55q3TcWrX6kqSbaXQKKKoX2t6fp0whupyJNu4qkbOVX1O0HA9zTjGUnaKuEpxgrydkX6Ky7nxJpVoyCa6OHiEwaOJ3URk4DFlBAGe5rTBDKCpyCMgjvTlCUVeSsKNSE21FptC0UVCl3BJdy2ySBpoVVpEHVQ2cfng1Nmym0tyaiiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAyfENlcX1raJax+Y0d7DKw3AYVWyTz7Vz1t4Tl+0WT3Wnxn/AEi6N0WZTuRtxjzzyM4OO1dvRXTTxNSnDkj/AFpY46uDpVantJ76fg7nnCaTdtdCwutON1eLpCxqDIn7l/Mba2Se3HIyR2rQuvDmqyS3JcPNG1xC8io0ZNwqxbWOHyv3ucMOa7QQRC4M4iQTFdhk2jcV64z1x7U+t5Y6bd0kc0cspqNm3/St28ziLrwtcXEYUWcsqR6XJDD9qkjLpKXyg+U4BA6EcD1pLjwzqIS4js4TFDJFatJGjp++dSfMHORk8csMHvmu4oqFjaq7f07lvLaLu9f6Vu3Y4seF5JZYVexle2S0uFVLtoiUdiCoAT5QOuMcCkttD1K0mFydLjuLt9LjhEsjIdkyqQ24k55GBkZ/Ku1oo+u1LWdvx/zH/Z1FNSTd16dku3l+LOCTwzfmwuEl0wOgvoLmO3cw/MoA8wAAhRn04B96ttoV6b6WeTTvNsmvvOax3R/vU8kKOC235WHQnt9K7Kim8bUfRfj5efkJZbRSWr/Dz8v7z/A4YeFr6VcXtqs4XTpo4gzq3lSGTdGgyeoGBnoMda29Q0++uvDFlb7TJNH5LXMJcZmC43pnODn64Nb1FRLFVJNN9Hc0hgaUFJJvVW/BL9DjV8N3Es9m8unxrbJqLTLbPsP2eEpjbjJHLAHauR0rR1nQ21DxDbXQtYnRLSaMyuF+VzjZ7+vI6V0NFJ4qo5KXZNfeOOCpKLj3afTo7rp/XQ4CTQNZuNNaE6e0bppSWa5mjO91kU8YbpgZ5rpdHsbyyi1cvCoknu5JYAzAhwVUAnHTkVtUU6mKnUjytL+rf5E0cDToyUk3denRNdvM4C28PaysdyXsdkcptpJrZXiVZirHzFAU45469R1NTw+H71Lh5G0cGwN+0x0/fH86GIKvG7bw3bP0ruKK0eOqO+i19f8APyM1llJJavT08/Lz9H1OCXwxqJ02ziuLWbyI5LjzLWB4WZd75Rh5mVOB+IzxW5oehtaazfXt5AxdhEsE0rq7kCMK2SO+evTNdDRWc8XUnFp9f1dzSngKVOSkr6W/BW/rzOM1DQNYXUrqfTceXbzfbLNN4HmStgOpyeBgN1/v1BfeErxrWaGK2Sf/AECJFZmX55hIXfGTwTk89Oetd1RVRxtWNrW0/r+vVkzy6jNybvrf8f6/A4q+8OXNzJqVza6WIJGS2+xLujVoin3gMHC4Hv8AStfxLpTahLps62CXwtbnfLEQmWQqQQN5APODjPat6ioeKqNp9vXsl+hawNJRlH+bfbu328/yOGuPDmtwyyvp2ALWVhZIZAA0cufMzz/DuGP92p7rw1dxTSQ2lt5p2QJZXm9R9kCYDdTuGcZ+UHOea7Kir+u1PL+v6/FkPLqLvq/6+Xay+S6q5h65pDapq2ktJbLcWsLSmcPjABTAyD15rm7zQNdm0OztRYhpbeA+W4kj3o4kyBuY5A24xt/E16BRU08XOmkklp/wf8yq2Bp1nJttc29vl5eX5nGxeG7l9fiurqxjeIanNOzOUb92YwFPX+8OnqM1Y8ZaXqWqhYrGzWZFhYpIDGHSXIxy3QYB5XnPcCuqoo+tz54zsvd2H9RpeznTu/ed3tf8jibzQdRmunaTTvtFw1/DOl4ZE+SIbcpyd3GDxjB69aanh7UvtlofsPl3UVxO82o+Yn7wMH2HruOMjgjjtXcUVX12pa1l+Pa3f/gGf9nUubmu/wAO9+347+Zwcfhe+GgXFsba5+0yCFZQ8sIjlKuCzLtwScZ5b5vrWyNHe18WWtxp9gEtUiMcjvsKIuCR5fO5WycHjBFdHRSljKkr363/ABSX6FQy+lBKzelvwbfbz1OS8QaVql94ghuLazVo4JIGinRowwAbMmSfm6dhgHnOeKgtfDd/byWk0Futvc/aLszTB1yEcNsyQeRkqcdq7SihYuooKCSt/wACw5YGlKo6jbv/AMG/Y5DQNFurPWrGeTS/sghsmhuJt6Hzpcr83ykk5wTk8+tLqGk6rc+K4r2OzURxXC4mjaMbotmDkn5yc9unsa66ik8XNz57La3X/MFgacafs03a6fTordvL7zkfD3h+60u70qU2ggK2ksd4yuuSxYFQcHnv64q7La6hp2u6heWlj9vjv0jA2yqpjZQRg7iPl5zxn6V0NFKWJnOTlJJ30/G5VPB06cFGDas01t0XL2tt+LOCl8I6rHarBC+4Jp3lOFdQszGXcYueQMHGRiui120nu9Mslitt6JPG81mXUeYg6pydpx6ZwcVt1Fc2tveQmG8giuIiclJUDL+RpyxU5yTl0dyY4GnTjKML6q2/b5Hn0GmXmo6ZfQWOmxm2e/uDsBjJjOxQuC2VAzkErkjHHrV1PDmpBbsi0CXd1p0Ma3YZMxyqpDgnO7LcDIzmu2hgitoVht4kiiQYVI1Cqv0Ap9ayx09opW/rzMY5bT0cm7/K35f15GL4a05tOtZlaG5t/McN5c5hwDjBKiIBQP1PWtqiiuKpN1JOTPQpUlSgoR2QUUUVBqFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)

As shown in the figure above, the S is achieved by X XOR Y XOR Z and C is achieved by (X XOR Y)\*Z + XY where Z is carry in, C is carry out, and S is Sum.

After implementing the full adder, I designed a bit slice ALU that takes full adder as component. Using the full adder, bit slice ALU performs the Arithmetic Unit operations of the ALU. These operations include transferring, incrementing, summing, and subtracting.

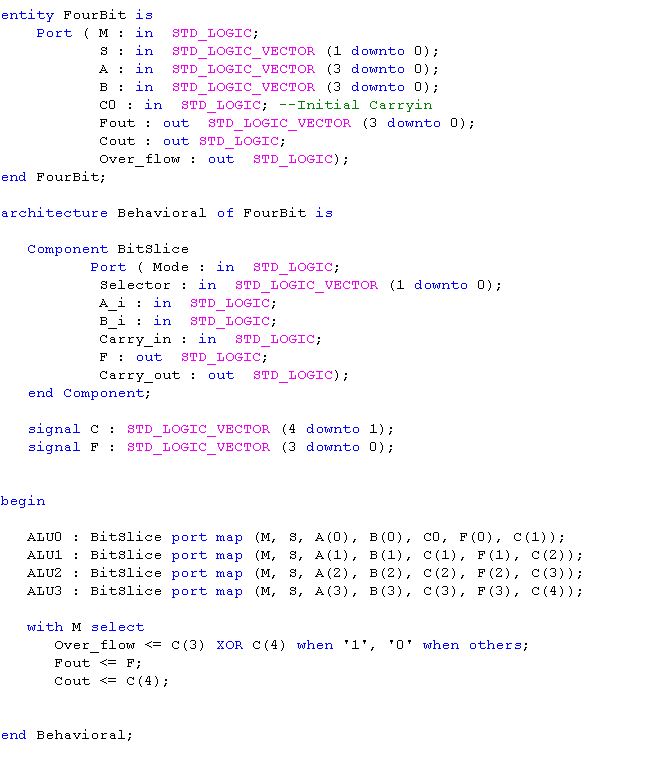


The signal LU\_OUT performs the Logic Unit of the ALU. Based on 2-bit S as a selector AND, OR, XOR, XNOR operations take place for the inputs A\_i and B\_i.

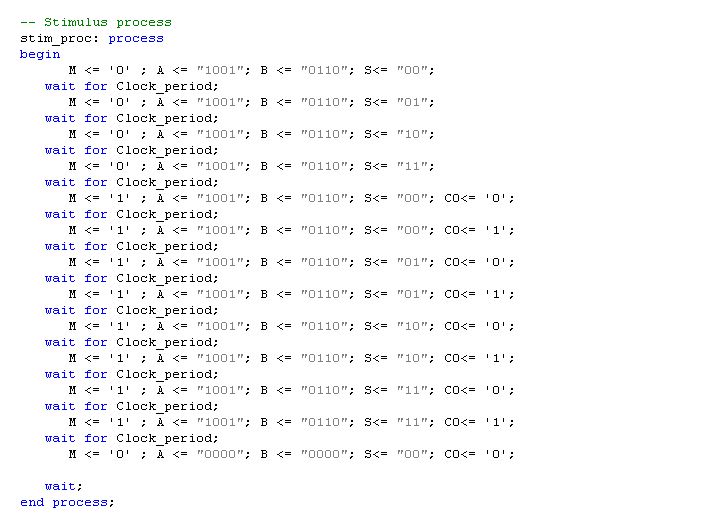
The signal input works as a multiplexer and decide which arguments to take such as A, A’ or B, B’ according to selector.

Lastly, Mode decide which part of the ALU to use. If it’s 0, Logic Unit takes action; otherwise, Arithmetic Unit takes place.

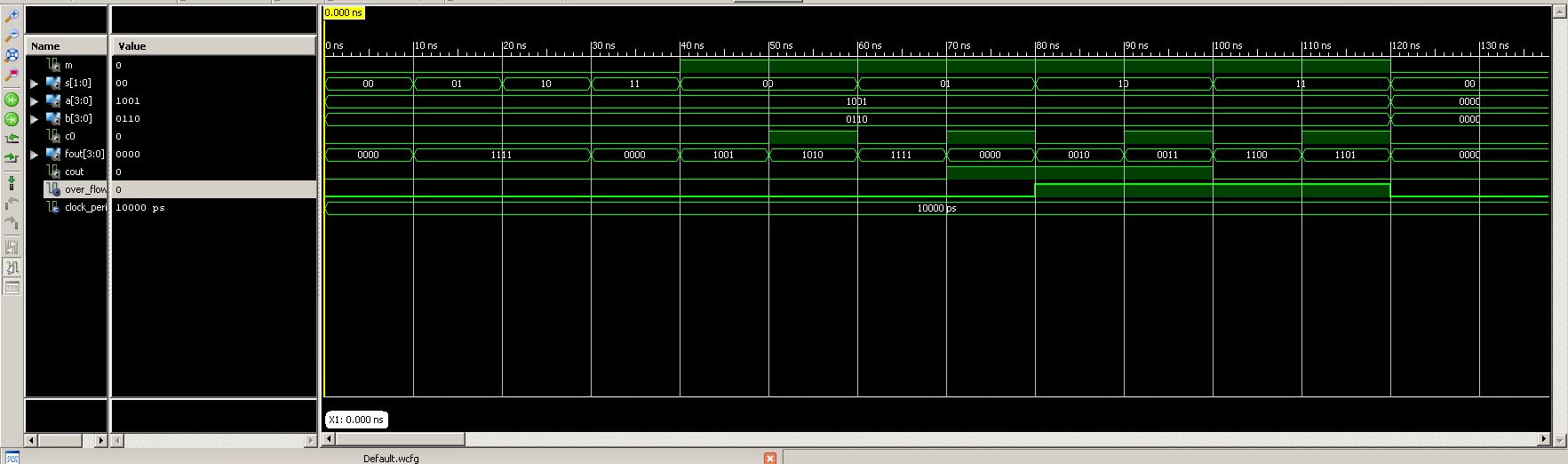
After completing the bit slice ALU, my code copies bit slice ALU to create a 4-bit ALU by using components and port map. Moreover, it contains the implementation of the overflow according to third and last carry out of the 4-bit ALU.



After my codes synthesized successfully simulation part is implemented with the given 4-bit inputs A = 1001 and B = 0110.



Following the functionality table with the given inputs my simulation produced the correct results.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| M | S | A = 1001 | B = 0110 | C0 | FOUT |
| 0 | 00 |  |  | X | 0000 |
| 0 | 01 | X | 1111 |
| 0 | 10 | X | 1111 |
| 0 | 11 | X | 0000 |
| 1 | 00 | 0 | 1001 |
| 1 | 00 | 1 | 1010 |
| 1 | 01 | 0 | 1111 |
| 1 | 01 | 1 | 0000 |
| 1 | 10 | 0 | 0010 |
| 1 | 10 | 1 | 0011 |
| 1 | 11 | 0 | 1100 |
| 1 | 11 | 1 | 1101 |

1. **Problems encountered, errors and warnings resolved**

I had difficult time learning how to use port map and components; however, I figured it out using online sources which I referred them on references. I encountered no synthesis errors or warnings when implementing my code using the instructions in the lab manual.

1. **Conclusion**

The objective of this lab was to build a hierarchical logic circuit design using elementary logic gates. The lab was mainly about designing a 4-bit Arithmetic and Logic Unit (ALU) with given ALU operations. What I learned from this lab was how to design an Arithmetic and Logic Unit. I specifically learned more about VHDL coding properties such as component and port map.

References

1. Lab 2 Instruction Sheet PDF
2. <http://osorio.wait4.org/SSC0113/AULA02/eecs_317_adder.pdf>
3. Digital Design: With an Introduction to the Verilog HDL, VHDL, and SystemVerilog, 5th edition

**Appendix 1. Lab source code**

**I had problems putting my source code here; however, all the codes are shown in the upper parts and I did my interview Mehmet hoca, and showed every part of my code to him as well. Please contact me if you absolutely need my files. I’ll find a way to send them to you through email, google drive etc. Thank you!**

**Appendix 2. RTL schematics**

**![A picture containing text, wall, monitor, mounted

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEF0YWhhbkthbGF5Y2kAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzg3AACSkgACAAAAAzg3AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIxOjAxOjAzIDAyOjU3OjU1ADIwMjE6MDE6MDMgMDI6NTc6NTUAAABBAHQAYQBoAGEAbgBLAGEAbABhAHkAYwBpAAAA/+ELIGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjEtMDEtMDNUMDI6NTc6NTUuODY1PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPkF0YWhhbkthbGF5Y2k8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgDBgLcAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+baKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKALen6eb8zk3MNtHbxebJJNuwBuVf4VJzlh2qf+y7T/AKD2n/8Afu4/+NUaX/yDdZ/68l/9KIazaANL+y7P/oPaf/37uP8A41R/Zdn/ANB7T/8Av3cf/GqzaKANL+y7P/oPaf8A9+7j/wCNUf2XZ/8AQe0//v3cf/GqzaKANL+y7P8A6D2n/wDfu4/+NUf2XZ/9B7T/APv3cf8Axqs2igDS/suz/wCg9p//AH7uP/jVH9l2f/Qe0/8A793H/wAarNooA0v7Ls/+g9p//fu4/wDjVH9l2f8A0HtP/wC/dx/8arNooA0v7Ls/+g9p/wD37uP/AI1R/Zdn/wBB7T/+/dx/8arNooA0v7Ls/wDoPaf/AN+7j/41R/Zdn/0HtP8A+/dx/wDGqzaKANL+y7P/AKD2n/8Afu4/+NUf2XZ/9B7T/wDv3cf/ABqs2igDS/suz/6D2n/9+7j/AONUf2XZ/wDQe0//AL93H/xqs2igDS/suz/6D2n/APfu4/8AjVH9l2f/AEHtP/793H/xqs2igDS/suz/AOg9p/8A37uP/jVH9l2f/Qe0/wD793H/AMarNooA0v7Ls/8AoPaf/wB+7j/41R/Zdn/0HtP/AO/dx/8AGqzaKANL+y7P/oPaf/37uP8A41R/Zdn/ANB7T/8Av3cf/GqzaKANL+y7P/oPaf8A9+7j/wCNUf2XZ/8AQe0//v3cf/GqzaKANL+y7P8A6D2n/wDfu4/+NUf2XZ/9B7T/APv3cf8Axqs2igDS/suz/wCg9p//AH7uP/jVH9l2f/Qe0/8A793H/wAarNooA0v7Ls/+g9p//fu4/wDjVH9l2f8A0HtP/wC/dx/8arNooA0v7Ls/+g9p/wD37uP/AI1R/Zdn/wBB7T/+/dx/8arNooA0v7Ls/wDoPaf/AN+7j/41R/Zdn/0HtP8A+/dx/wDGqzaKANL+y7P/AKD2n/8Afu4/+NUf2XZ/9B7T/wDv3cf/ABqs2igDS/suz/6D2n/9+7j/AONUf2XZ/wDQe0//AL93H/xqs2igDS/suz/6D2n/APfu4/8AjVH9l2f/AEHtP/793H/xqs2igDS/suz/AOg9p/8A37uP/jVH9l2f/Qe0/wD793H/AMarNooA0v7Ls/8AoPaf/wB+7j/41R/Zdn/0HtP/AO/dx/8AGqzaKANL+y7P/oPaf/37uP8A41R/Zdn/ANB7T/8Av3cf/GqzaKANL+y7P/oPaf8A9+7j/wCNUf2XZ/8AQe0//v3cf/GqzaKANL+y7P8A6D2n/wDfu4/+NUf2XZ/9B7T/APv3cf8Axqs2igDS/suz/wCg9p//AH7uP/jVH9l2f/Qe0/8A793H/wAarNooA0v7Ls/+g9p//fu4/wDjVH9l2f8A0HtP/wC/dx/8arNooA0v7Ls/+g9p/wD37uP/AI1R/Zdn/wBB7T/+/dx/8arNooA0v7Ls/wDoPaf/AN+7j/41R/Zdn/0HtP8A+/dx/wDGqzaKANL+y7P/AKD2n/8Afu4/+NUf2XZ/9B7T/wDv3cf/ABqs2igDS/suz/6D2n/9+7j/AONUf2XZ/wDQe0//AL93H/xqs2igDS/suz/6D2n/APfu4/8AjVH9l2f/AEHtP/793H/xqs2igDS/suz/AOg9p/8A37uP/jVH9l2f/Qe0/wD793H/AMarNooA0v7Ls/8AoPaf/wB+7j/41R/Zdn/0HtP/AO/dx/8AGqzaKANL+y7P/oPaf/37uP8A41R/Zdn/ANB7T/8Av3cf/GqzaKANL+y7P/oPaf8A9+7j/wCNUf2XZ/8AQe0//v3cf/GqzaKANVNEimEgttYsZ5EieXy1WYFgiljjdGBnCnqayq0tBP8AxMZf+vK6/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/9eV3/AOk8lZtaWg/8hKX/AK8rv/0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/wCQbrX/AF5L/wClENZtaWl/8g3Wv+vJf/SiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/ANeV3/6TyVm1paD/AMhKX/ryu/8A0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/8AIN1r/ryX/wBKIazaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/5CUv/Xld/wDpPJWbWloP/ISl/wCvK7/9J5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/8AkG61/wBeS/8ApRDWbWlpf/IN1r/ryX/0ohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBQvGaTHvXqPwWjSSTWBIitgQ43DP9+uy1jxl4Z0LUnsNScR3CAFlW3LdRkcgV4WIzadLEyw9Ok5tdn5LpbzPmsXnlSji5YWlQc3G2z8k9rPufPn40fjXu3/CyfBv/Pb/AMlG/wAKP+Fk+Df+e3/ko3+FZ/2tiv8AoFl+P+Rl/beN/wCgOf4//InhNFdn8SPEGk+INRspdFfdHFEyv+6Kc5z3FcZXtYerKrSU5x5W+j6H0OFrTr0Y1JwcW+j3X5BRRRW50hRRRQAUUUUAFFFFABRRRQAoGaCMHBoDY7V9F+Hvslt4E026uIkEcWnRySNsycCMEn3rzMxzD6jGMuXmu7b2PGzbNP7OhCXJzcztvb9GfOf40uK91/4WT4N/57H/AMBG/wAKcvxA8E3X7uW4iAbjEto2D/47XD/a2KW+Fl+P+R539uYxavBz/H/5E8HIwaK9x1/4faD4l0o3mgrb21wyboZrbAik9iBx+I5+vSvEZ4JLa4kgnQxyxOUdD1VgcEV6OBzCljYvk0a3T3PVy7NKOYRfJdSjunuhlFenfCjVdH07TtRXV7y0t2eVCguHVSRg9M1w/iqaC48W6nNaOkkD3LtG8ZypGeCMVVLFSqYmdBwso9e/4F0cbKri6mGdNpR+10e3l+pk0V2vw88E23iua4nv53S2tWUNFGMNITk9ew4//VWD4rtILDxZqVpZxiKCGdkjQfwgVcMXSniJYePxRV2aQx1GpipYWPxRV32/rUyKKKK6zuCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/AJCUv/Xld/8ApPJWbWloP/ISl/68rv8A9J5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/+QbrX/Xkv/pRDWbWlpf8AyDda/wCvJf8A0ohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD1P4J/63Wf92H/2euc+Kf8AyUC7/wCucX/oAro/gn/rdZ/3Yf8A2etnxX8Mn8S+IZtTXVVthIqr5Zg3YwoHXcPSvkpYmlhs4qTrOysl+Eex8LLGUMHn9apXlZcqXV9I9jxPNGa9S/4UnL/0HU/8BT/8XR/wpOX/AKDqf+Ap/wDi69b+2sB/z8/B/wCR7v8ArDln/P38Jf5HltS2tpcX11HbWcLzzSHCRxrksfpUbDaxHocV7Z8M/D9tonhf+27wKtxdRmVpWH+qhHIH4gbj+HpW+YY2ODo+0tdvRLzOjNMxjl+H9ra7eiXdnJ6d8HtauYRJf3VtZEj/AFeTIw+uOP1p1/8ABzWIIS9he2t2QP8AVnMbH6ZyPzIqh4l+Jes6vfSDTLqXT7JWxGkJ2uw9WYc59hx/OovD3xJ1zR71De3cuoWhP7yKdtzY9VY8g/pXncucOHtOaN/5bfhf/g/M8vkz5w9tzxvvy2/C/f5/M5e9sbrTryS1voHgnjOGjkGCKl0jS59a1a3061aNZrhtqGQkKDjPOAfSvZviBoVp4o8H/wBr2IV7i3g+0QSqOZIsbip/Dke/1NeX+AP+R90n/rt/7Ka6cPmP1nCTqpWlFO680jrwma/W8DUrxVpwTuuzS/ITxP4L1HwotsdSmtpPtJYJ5DM2NuM5yB/eFc8eK9Z+NR/daL/vTf8AsleTGt8sxE8ThI1am7v+bR05PiqmMwUK9X4nf8G0dB4X8Gah4tF1/Zs1tH9m2b/PZhndnGMA/wB01mazpM+h6xcabdtG01uQGMZJU5APGQPWvSfgmc/20P8Arh/7UrjviJ/yUDVf+ui/+gLWNHF1Z5jUw7+GKTX4f5nPQx1apm1XCP4YpNfdH/Mfovw/1XXdBbVrOa0S3XflZXYN8vXgKR+tXPDXwx1TxBp630k8djbyDMRkUszj1x6fjXoPwrRZfh/HHIMq80qsPUE1zHi74m6hYa1Npnh0Q21tZt5JcxhizLwQAeAAePwrzvr2Pr4iphqFrp7vokeR/aWZ4nFVsJhrXi930S+/V+hyvizwTf8AhIwvdzQTwzsVjeNuSR6qef5ivYLT/kk8X/YFH/omvFvEnivUfFMlq+p+WDbRlFEa4BJOS2M9Tx+Ve5aHai++Hen2hfYLjS44i2M7d0QGcfjWGbOtHD0XiWuZS1sc+evEQwuHeLa51LW239WPnKivWv8AhSkH/Qck/wDAYf8AxVSQ/BWyVwbjWJ3TPISEKfzJNeq88wH8/wCD/wAj23xJllv4n4P/ACHfBe4uH0fUoJCxgimRo89AWB3AfkPzrg/iEIh4/wBV+z42eaucf3ti7v1zXrOqyRfD7wiYvD2lTXGATuVdwVscySHr/wDqxwK8GuJ5bq5kuLhzJLK5d3PVmJyTXJlS+sYurjIq0Xovw1/D8ThyVfWsdXzCCtCWiX3av7vxN/wx4I1LxXbzzabNaxrAwVvPdlJJGeMKayrvSZ7LXZNJlaM3Ec/kFlJ27s464zj8K9R+C3/IK1T/AK7J/wCgmvPfGEjRePNVkjYq6XjspHYhq7aGLq1MdVoPaK0/A9DDY6vVzKvhnblilb8D1z4eeEb/AMJ2t9HqUtvIbh0ZPIZmxgHrkD1rkPGHw41ifVNX1xJ7IWuZLnaZG37QM4xtxnj1rofhTrepa1Z6k2q3kl00UiBDIfugg5riPGfirXI/E2r6empzraea8XkgjbsPBH5V4uFhjf7SqJSXNpftbTY+fwdPMP7WrJTjz2XM7aNabHF0UUV9kffhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/wAhKX/ryu//AEnkrNrS0H/kJS/9eV3/AOk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/AJButf8AXkv/AKUQ1m0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB6n8E/9brP+7D/AOz1V+IXi7XtJ8Z3Npp2pSwW6JGVjULgZUE9RVr4J/63Wf8Adh/9nrnPin/yUC7/AOucX/oAr5aFOFTOqqmk1yrfXpE+Mp0adXiGtGpFNcq3V+kSl/wsDxT/ANBmf/vlf8KP+FgeKf8AoMz/APfK/wCFc5RXv/U8N/z7j9yPpvqGD/59R/8AAV/kBJJJPU1794mP2L4UXCwcBbBIhj+6Qq/yNeA19AaeF8W/C2OGJgZLix8kknpKo28/8CFeLnnuyoVJfCpa/h/kz57iT3JYarL4Yz1/D/Jnz/RT54Jba4kguEaOWNirowwVI6g0iI8sixxqXdiFVVGSSewr6O6tc+turXPffh2ftnw2sEn5BSWM57rvYfyryLwB/wAj7pP/AF2/9lNew2kX/CHfDILckLJZ2bM4z/y0bJ2/99NivHPAjiPx3pJY4H2gD8SCB/Ovk8B78MZUj8Lvb/yb/NHw2WfvKePqw+GXNb/yZ/qjufjX/qdG/wB6b/2SvJq9e+NNvI2m6XcqpMccsiMfQsAR/wCgmvIa9TI2ngIfP82e1w208sp28/zZ6t8Ev+Y3/wBsP/alcd8RP+Sgar/10X/0Ba7/AODemy2+iX1/KhVLuVVjyPvBAefpliPwNcB8RP8AkoGq/wDXRf8A0Ba5MLJSzis12/LlRw4KcZ5/iHH+Vfhyo9S+E/8AyIcP/XeT+deHXkjS308jnLPIzE+5Ne4/Cj/kQ4f+u8n868MuP+PmX/fP86eV/wC+4r1/VlZKv+FHGP8AvL85EdfQ2nyvB8LbeWFykkejqyMpwVIhyDXzzX0Jaf8AJJ4v+wKP/RNTn+saX+IjihXjQT/mPFv+E08Sf9Bu+/7/ABp8fjjxNEwZdauyR/efcPyNYNFe79VoP7C+5H0v1PDP/l3H7kez/Drx/deILt9K1nY10ELxTKu3zAOoIHGe/HbNcj8U/DcGia9Dd2MYit79Wby1GArqRux6A5B/OrHwj0W5ufEp1UxstraxsvmEcM7DG0evBJ/L1q/8ab6N7zS7FSDJEkkrj0DEAf8AoJr5ynGFDOFTw+kWveS22f8AwPvPk6MIYXP1SwukWveS2Wjf+X3l/wCC3/IK1T/rsn/oJrzvxp/yO+sf9fcn869E+C3/ACCtU/67J/6Ca878af8AI76x/wBfcn866cH/AMjWv6L9DqwH/I8xPov0PQfgp/x4at/11j/k1cB43/5HjV/+vlq7/wCCv/Hhq3/XSP8Ak1cF43T/AIrnV/8Ar5btRhP+RtX9F+g8D/yPMT6L/wBtMCigjBor6I+rCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/8AXld/+k8lZtaWg/8AISl/68rv/wBJ5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/wDkG61/15L/AOlENZtaWl/8g3Wv+vJf/SiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPRvhJrGnaTJqx1O9gtBKItnnSBd2N+cZ+orC+I99a6j42urmwuI7iBkjAkiYMpwgB5rlqK8+GBhDFyxd9WrW+7/I8unlsIY+eNUneStbp0/wAgooor0D1Arr/AnjqTwpcPb3SNPp0zbnRfvRt/eX+orkKKwr0KeIpunUV0znxOGpYqk6NZXTPcr6w8C+NyLxry3FywGZI5hFKf95T1+pFNsdK8CeC5PtpvLdrhOVeacSyL/uqvf3AzXh9FeN/Y0+X2ft5cnby7f0j5/wDsCah7FYmfs+3l2v8A8A7Xx54/fxQy2Vgjw6bG27DcNM3Yn0A7D8fpx1tcS2l1Fc27bJYXEiMOzA5BqOivYoYalh6SpU1oe9hsJRwtFUKStH+tz3bSvGvhrxho/wBj1l7eCWRQJrW6bapPqrHrz05yKpSeDvh9pb/a7u5h8tfmEct5lfwAOT9Oa8WoryFkvs5P2FWUYvojwVw97KT+r15Qi90j3DRfiNo95rs1nFLBp+k20AWF5sR+Y2QOB2AHQf5Hl3jm7t77xtqVzZzJPBI6lJI2yrfIBwawKK68LllHCVnVpt6q3/B9TuwWT0MFXdak3qrW+7X1dj2X4aeIdH07wZFb6hqdrbTCaQ+XLKFbBPpXjs5zcSEcgsTxTQ2BSGtsNgo4erUqxd3N3/P/ADOjCZfDC16taLbdR3flv/mFe9+H/E3h1fB2m2d9qtiCLGOKaKSZf7gBUj9K8EoqMfgIY2MYyk1bXQzzPK4ZjCMZyceV30Pdtvw3/wCoH+aUb/hvD8//ABIzj/ZRv0rwmivP/sT/AKfS+88v/VzviJ/ee3ar8U/D2k2Zh0VTeyKMRxxRmONfqSBx9Aa8d1bVLrWtUn1C/k3zzNliOg9APYDiqdFehgstoYO7p6t9Xuepl+U4bL7ukm5Pdvc9Q+E2t6XpOm6imp39vatJKhQTSBdwwema4bxZcQ3fi7VJ7aRZYZLl2R0OQwz1BrIoqqWCjSxM8QnrLoaUcvhRxlTFpu8+n3f5HefC/wAU2Xh7ULq31SQxW94FxLjIRlzjOOx3Hn6V3OvWPgfV0ub64utLa7liYLMLsDLbcA4DcnpXhYbFG7jpXNiMrjVxH1iE3GT3t1OLFZLGvivrVOpKEnvbrb/hgb71JQeaK9g98KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf8AkJS/9eV3/wCk8lZtaWg/8hKX/ryu/wD0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/wDIN1r/AK8l/wDSiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACilC5GaTFABRRRQAUUUUAFFFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACijFGKACiiigAooooAKKKUDNACUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGloP/ISl/wCvK7/9J5Kza0tB/wCQlL/15Xf/AKTyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8g3Wv+vJf/SiGs2tLS/+QbrX/Xkv/pRDWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHtfwb/AORNuv8Ar/f/ANFx16BXn/wa/wCROuv+v9//AEXHXoFfmOa/77U9T8czv/kY1fUKKK4fx/4/j8OQtp+lssmqyLyeq2wP8RHdvRfxPGA3Lh8PUxNRUqSu2cWEwlbGVlRoq7f4eb8g8f8Aj+Pw5C2n6WyyarIvJ6rbA/xEd29F/E8YDeQ/8JV4h/6Dup/+Bkn+NZkssk8zzTyNJLIxZ3dssxPJJJ6mm1+i4LLKGEpclrvq2fq+XZPhsFR5LKT6trf/AIHY1v8AhKvEP/Qd1P8A8DJP8aP+Er8Q/wDQd1P/AMDJP8ayaK7fYUf5V9yPS+rUP5F9yNb/AISvxD/0HdT/APAyT/Gj/hK/EP8A0HdT/wDAyT/Gsmij2FH+Vfcg+rUP5F9yNb/hK/EP/Qd1P/wMk/xo/wCEr8Q/9B3U/wDwMk/xrJoo9hR/lX3IPq1D+RfcjW/4SvxD/wBB3U//AAMk/wAaP+Er8Q/9B3U//AyT/Gsmij2FH+Vfcg+rUP5F9yNb/hK/EP8A0HdT/wDAyT/Gj/hK/EP/AEHdT/8AAyT/ABrJoo9hR/lX3IPq1D+RfcjW/wCEr8Q/9B3U/wDwMk/xo/4SvxD/ANB3U/8AwMk/xrJoo9hR/lX3IPq1D+RfcjW/4SvxD/0HdT/8DJP8aP8AhK/EP/Qd1P8A8DJP8ayaKPYUf5V9yD6tQ/kX3I1v+Er8Q/8AQd1P/wADJP8AGj/hK/EP/Qd1P/wMk/xrJoo9hR/lX3IPq1D+RfcjW/4SvxD/ANB3U/8AwMk/xo/4SvxD/wBB3U//AAMk/wAayaKPYUf5V9yD6tQ/kX3I1v8AhK/EP/Qd1P8A8DJP8aP+Er8Q/wDQd1P/AMDJP8ayaKPYUf5V9yD6tQ/kX3I1v+Er8Q/9B3U//AyT/Gj/AISvxD/0HdT/APAyT/Gsmij2FH+Vfcg+rUP5F9yNb/hK/EP/AEHdT/8AAyT/ABo/4SvxD/0HdT/8DJP8ayaKPYUf5V9yD6tQ/kX3I1v+Er8Q/wDQd1P/AMDJP8aP+Er8Q/8AQd1P/wADJP8AGsmij2FH+Vfcg+rUP5F9yNX/AISrxD/0HdT/APAyT/GvXvAHj+PxHCun6oyx6rGvB6LcgfxAdm9V/EcZC+GU6KWSCZJoJGjljYMjo2GUjkEEdDXFjcsoYulyWs+jR5uY5PhsdR5LKMujS2/4Hc+qaK4fwB4/j8Rwrp+qMseqxrwei3IH8QHZvVfxHGQvcV+dYjD1MNUdKqrNH5Ri8JWwdZ0ays1+PmvIK5X4mHHw61P/ALZf+jUrqq5X4m/8k51P/tl/6NStMB/vdL/FH80a5Z/v1H/HH80fPx60UGiv1Q/awooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/5CUv8A15Xf/pPJWbWloP8AyEpf+vK7/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD2v4N/8iddf9f7/wDouOvQK8/+Df8AyJ11/wBf7/8AouOrHj/x/H4chbT9LZZNVkXk9Vtgf4iO7ei/ieMBvznGYepicynSpK7bPybMMJWxmbVKNFXbf3eb8g8f+P4/DkLafpbLJqsi8nqtsD/ER3b0X8TxgN4dLLJPM808jSSyMWd3bLMTySSepollknmeaeRpJZGLO7tlmJ5JJPU02vtcBgKeCp8sdW933/4B+h5XldHLqPJDWT3ff/gdkFFFFeiesFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA6KWSCZJoJGjljYMjo2GUjkEEdDXuPgDx/H4jhXT9UZY9VjXg9FuQP4gOzeq/iOMhfDKdFLJBMk0EjRyxsGR0bDKRyCCOhrzsfgKeNp8stGtn2/4B5OaZXRzGjyT0ktn2/wCB3R9U1yvxN/5Jzqf/AGy/9GpVHwB4/j8Rwrp+qMseqxrwei3IH8QHZvVfxHGQt34m/wDJOdT/AO2X/o1K+Eo4ephsfTpVVZqUfzR+aYfCVsHmlKjWVmpx+eq1XkfP5ooor9MP2EKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/ANeV3/6TyVm1paD/AMhKX/ryu/8A0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/8AIN1r/ryX/wBKIazaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA7vw/4wm8K/DmSOxjze3t/MsUrAFYgscWWx3PzDA6dz0weGllknmeaeRpJZGLO7tlmJ5JJPU1qXA/4o7Tv+v+6/8ARdvWTXHhqNODnUitZN3fo7HBhMPSpudWK96Td36NpBRRRXYd4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAOilkgmSaCRo5Y2DI6NhlI5BBHQ16Td+Ov+Eo+GOq2OoDbqdvHE7sq4WZBNGN/HAOSMj3yO4Hmla2jj/iV69/14L/6UwVw4vD06vJOS1jJNP5o83HYSjX9nUmvehKLT/wC3l+Bk0UUV3HpBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/wAhKX/ryu//AEnkrNrS0H/kJS/9eV3/AOk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/AJButf8AXkv/AKUQ1m0AFFFFABXrKeGNL/sFfCjWlv8A282mm8+0GNfMEu7Ij3dfb6DNcZ8P9GXWfF9sJwPstrm5nLdAq9M+xbA+ma6qSzlb4h/8JIPFHhvAuNyx/wBoc+Vjbt6ddnH1rwsxrc1RUoys4rm+f2V+dz5rNq/NWVGM+VwXN11l9lO3Te/yPMNrb9u07s4xjnNdT4r0+10Gz03QUiiW9VBcX1yVBYO44Td12qOw65z1rb1jw7FafF/TjHtay1G5ju4yvKtlssPpkH8CK5rxo0t54+1UBWkka6MaKoyTj5QAB9BXTTxCxNWm4v3eXm+e34a/M66WKWMrUnF2jyufz2Sfpr87GteeJPD2hSQ2PhvRdN1W2RQ015qFszvM+BnbuwVHHTGM9vWr430KystR0yfR4Gtk1W1ScWbNkws2OMntz3757cDN0rVLvwnqUouNHtJbobf3epWxLQkcggEgqeQc/St3xxHFrOh6X4ti82OS+LQzwPIXVHUnlcngcHjp06c1koOhiKfLfld1du/M2rq6+/X5aIxjTeGxVLlb5ZXXM3fmbV1dfJtP5KyZhp4U1KPxVaaFqMX2W5uHQEb1fap75UkdM10mq+INC8P69Jotp4a066020byJ5Z4t9xI3O8hz0OeB9OMcAYvw8dI/iBpRk6GRlH1KMB+pFZ3iZWTxZqyuMEXs3B/3zWk4OtiVSqu6Ub6XSu3a+/S2mulzapTeIxaoV3dKF9LpXbavv0tpq7XNzXdOsvB3j6Epbx3elyBZ0hnXeDC+QRz3HzYPXgGsnxZoY0DxDNawkvayATWsn9+JuVP4cj6g1vfE87b7RYm4dNLi3L6cn/Cm+NwZfCXhC6kO6R7N4yT3C7MfzrLC1p/uJyd+ZNPztdp/g/vMMHXqf7POTvzpxfnZNp+uj+84miiivaPoQooooA1rj/kTtO/6/wC6/wDRdvWTWtcf8idp3/X/AHX/AKLt6yaxo/D83+bOfD/A/WX/AKUwooorY6AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1tG/wCQXr3/AF4L/wClMFZNa2jn/iV69/14L/6UwVjW+Feq/NGGI+Besf8A0pGTRRRWxuFFFFAHeeGntdO+Gepas+ladfXUN8saG9thIApCcevc96zv+E7/AOpW8M/+C7/7Ktjwxc2Vp8JdVm1Ow/tC3GoKGt/OaLccJg7hyMVg3WueF5rOaO18IfZ5njZY5v7Tlfy2I4baRg4POK8KnCM6tXmpuXvb3Vlou8k/wPmqUI1K9bnpSn79rpqy0Wmsk/wMi1sb3X9WaHTLLzJ53LiGBcKgJ/JVGe/Aq5rHg/XtBtluNV06SGEnHmK6uoPuVJx179a6DQJpNL+E2tajYMYrya8S2aZDhljwp4Pb7zD8aPhdLJc6vfaPO7Np95ZyedETlQeBuA9ccf8A6q3qYurBVKkEuSDs1rd2tfW+m+mjudNXHV4Rq1YJclN2ad7uyTdney300d/I5Ky0a/1GxvLyzg8y3sVDXD71GwHOOCcnoemaNI0a/wBdvhZ6VB59wVLbN6rwOvLECuq8F/8AIi+Mv+veH/2pR8JAT46XA6W0mf0q62LqQhXkkvc2/wDAU9fvLr46pTp4mSS/d7f+Ap66935EngfwbJrHh/Vr+XT1uHa2ePT3aQY83DA8ZxnkcsOOorJ8O+FZLvxbJp2sIYYbANNfYYHaidRkccnA4PetLwH/AMiz4v8A+wcf5PR4TX7P8O/Fl4n+saOKHPopJB/Pd+lctSrWhOv73WKXlzWXfpftvqcdWtiIVMSufrCK0enNZaava99tXr5Gdp114e1HxVe6hr8a2mnhXkhsreMoJD0SP5B8vHU8c/U1u+HtT0zxprR0S/8ADWm2kNyrmGewh8qWAhSQSw6+nQDOOO1cHb2N3dxzSWlrNOkC75WjjLCNfViOg4PJrsvB3jARXFpoc2l2cNrebLWW5s1aG4bJwGZw3PJ5/GtcbQtTlKndtLTX4bdV5+u5vmGGtSlKjdyirL3rctlul1fXXfa9jmrPw7qGp3t7b6VELv7GGaRg6qNoON3JGfwra8G6Tp39m6p4i1uD7VaaYq+XbFsCWUn5QfbOB+PQ9DieI9JGh+I73TUkMiW8m1WbqVxkZ98Gum0ch/gzr8aDLpeRO2Oykx4/ka0xNScqMXGWk3FaaOzavrfr8rGuMqzlh4uMvdm4K60dpNX1v19FYn0aXTvHsN5pU+i6fp2opA01nPp8PlAsMfKwyc59+2ehrD8GwWeqXlxod/HCDqERW2uWQb4Zl5QhuuDyCO/FaHwoUnx3Ew6JBIWPoMY/rXO6TO0fiqzngbBF4jKR/vis/ZuM61GDskk15PX/ACTMfZuM6+HptpKMZLXZ67fNJ29e5RuLeW0upbe4QxzQuUkQ9VYHBH51HXT/ABGhWD4haoidC6P+LRqx/U1zFelQqe1oxqd0n96PXw1b29CFX+ZJ/erhRRRWx0GloP8AyEpf+vK7/wDSeSs2tLQf+QlL/wBeV3/6TyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8AIN1r/ryX/wBKIaza0tL/AOQbrX/Xkv8A6UQ1m0AFFFFAHS6L4jtNE8IatZ28c39q6jiLzto2JF3Gc5yct29PSuaoorKnRjTlKS3k7v8AIwp0IUpTnHeTu/usdkPGdrJ4b0SG5hnOqaLcq8EoAKPECPkJzkcADp/CPWoPiHbiDxg+oWj5t9QjS7t5V4yCByD65BrlK0LjW7q70O10u5WOSK0kZ4JWB8xA3VM5xtzz0znvjiuWOEVKqqlLbW68nrp8/wA2cUcCqFeNSjt7115S109GtvNnR3niLwz4laO88UWmpwakqCOSXTmj2TgDhiH6H2H/AOrN8ReJYdaaxsrW1ay0iwBSCBW3OQTyxPdjj8Pfk1laTLb22r2VzfR+dbRXCPNFsDb0DAsMHg5GRg16V/wnXw+/6Fb/AMp1v/8AFVy1qaws4+zpymltZ6R9Ezjr01gqkPY0ZTSvaz0j00T8vuWiPPLu6sLHW4rrww96kUJWSNrzb5gcHP8ADxiumufEfg7V9STWdY0rUV1EgGa2t3Q28zjgE5+YZ4zj9eSd3/hOvh9/0K3/AJTrf/4qj/hOvh9/0K3/AJTrf/4quWpVqzs3QndK172dvM46letU5W8NUula6kk7dmzz7XNYvPFPiGS9mTM1w4SKJOdo6Ko9f6mtz4iXEcF5pmhQuHGkWaQyMD1kIBb+S/rXUReP/AUEyTQeGWjljYMjpYQBlI5BBDcGiXx/4Cnmeafwy0ksjFnd7CAsxPJJJbk0e3rKpBxw8lGCdlp6fgr/AHh9ZxCqU3HCyUYJ2Wm70/BX+88moxXq3/CdfD7/AKFb/wAp1v8A/FUf8J18Pv8AoVv/ACnW/wD8VXX/AGhiP+geX4Hd/amK/wCgWf4HlOKMV6t/wnXw+/6Fb/ynW/8A8VR/wnXw+/6Fb/ynW/8A8VR/aGI/6B5fgH9qYr/oFn+BwE4/4o7Tv+v+6/8ARdvWSRzXsEnjLwMNHt528N5tpJ5Ujj+wwfK6rGWON2BkMgz3xz0FVP8AhOvh938Lf+U63/8Aiqzp4+uo6UJbvt3ZjRzPEqLthZbvt3Z5TijFerf8J18Pv+hW/wDKdb//ABVH/CdfD7/oVv8AynW//wAVWn9oYj/oHl+Bt/amK/6BZ/geU4oxXq3/AAnXw+/6Fb/ynW//AMVR/wAJ18Pv+hW/8p1v/wDFUf2hiP8AoHl+Af2piv8AoFn+B5TijFerf8J18Pv+hW/8p1v/APFUf8J18Pv+hW/8p1v/APFUf2hiP+geX4B/amK/6BZ/geU4pQuRXqv/AAnXw+/6Fb/ynW//AMVVbU/Gfge60e8t7Hw55FzLA6Qy/YIF8typAbIbIwcciqjjq7kk6EvwKjmeJlJJ4WS+48yIxRQetFese4FFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABSgZpKev3RQAwijFerf8ACdfD4f8AMrf+U+3/APiqP+E6+H3/AEK3/lOt/wD4qvH/ALQxH/QPL8Dwf7UxX/QLP8DynFGK9W/4Tr4ff9Ct/wCU63/+Ko/4Tr4ff9Ct/wCU63/+Ko/tDEf9A8vwD+1MV/0Cz/A8pxRivVv+E6+H3/Qrf+U63/8AiqP+E6+H3/Qrf+U63/8AiqP7QxH/AEDy/AP7UxX/AECz/A8pxRivVv8AhOvh9/0K3/lOt/8A4qj/AITr4ff9Ct/5Trf/AOKo/tDEf9A8vwD+1MV/0Cz/AAPKa1dH/wCQXr3/AF4L/wClMFeg/wDCdfD7/oVv/Kdb/wDxVW7Pxl4Gmtb54PDflxwwB51+wQDzE8xFAwG5+ZlOD6Z6is6mPruP+7y3XbujGtmeJcUnhZLVdu6PHqMV6t/wnXw+H/Mrf+U63/8AiqP+E6+H3/Qrf+U63/8Aiq0/tDEf9A8vwNv7UxX/AECz/A8pxRivVv8AhOvh9/0K3/lOt/8A4qj/AITr4ff9Ct/5Trf/AOKo/tDEf9A8vwD+1MV/0Cz/AAOLtPEFrb/D2/0F45jdXN2s6OFGwKNvU5zn5T2rna9W/wCE6+H3/Qrf+U63/wDiqP8AhOvh9/0K3/lOt/8A4qsqeLrU3Jxw8tXd6owpY6vScnHCz953eq30X6HF+GPE0OkW93pmrWhvdIvtvnwq2GUg8Ovv7cdByMVoJ4n0Lw/pt1D4Qs743l5GYpLzUGTfEhxwgT15PbBA69uk/wCE6+H3/Qrf+U63/wDiqP8AhOvh9/0K3/lOt/8A4qsJznObk8PPXdX0du6/rzOapUnUm5ywk9bNq+ja2uvu9banGeEPE1voMl7a6natdabqMXlXMcbYcAZwRyPU9x168VveHPFvhLwrqhl0vT9TlSVCstxcmNpVH91VUhcZAJJOeK1h45+Hx/5lb/ynW/8A8VXmerTW9zrV7PYxeTbSzu8Me0LsQsSowOBgEcCumFFYyU/a05QT310f3HXToRzCdT29KdNSSvro+nTqja8H+IrLRP7StdWgnlstRtzBKbcjevXkZ47nv+da/g+awvLjxB4e0xpxbapan7H9q27zIgJAO3jPJPH92uDqW0up7G8iurSRop4XDxuvVSK7a+DjUU3F2crel1s/wR6OJy+FVVJQdpSt6XVrO3yXyNXw34gm8MarJKbcXEMsbQXNrIdokQ9QeODx6etbNrrPgzRLwano2n6tc30R3QQ3rxiGNuxyvzHHbP8A9euX1TUH1XVbi/lhhgkuHLukIIQMepAJJ5PPXvVSqnhYVffndNrVJ7+TKngqdf353TkkpJN6+Ttv2ua8F7p2o6lfXvidr55bjdIhs9n+sJz827+H6VZ8K+Jk0GW6t761+26Zfx+VdW+7aSP7yn1AJ9PqOo5+itJ4enOLhLZ207W7djaphadSDpy+F207W2t2OxXxJoGg6XdxeEbXUDe3sZhku9QKZijPUKE9f8OtZvgjTTqfjLT4zxFDKLiVicBUT5jk9hxj8awK0NP1m40ywvra0SJTfRiKWYqfMEeclFOcAN345xWMsM4UpxpfFLq/u/BdDCWEdOjONF+9Pq3d9r/JbIl8T6quteJ7/UE/1c0xMf8AuDhf0ArKoorrpwVOChHZaHbTpxpQjTjslb7goooqzQ0tB/5CUv8A15Xf/pPJWbWloP8AyEpf+vK7/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAUHFITk0UUAFFFFABRRRQAUUUUAFFFFAGvOf+KP07/r/uv/RdvWQTWtcf8idp3/X/AHX/AKLt6yaxo/D83+bMMP8AA/WX/pTCiiitjcKKKKACiiigApQ2KSigAJyaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigApd3FJRQAE5NFFFABRRRQAUUUUAFFFFABWvox/4leu/9eC/+lMFZFa2jf8AIL17/rwX/wBKYKxrfCvVfmjDEfAvWP8A6UjJJooorY3CiiigAooooAKKKKAFzSE5NFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGloP/ISl/wCvK7/9J5Kza0tB/wCQlL/15Xf/AKTyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8g3Wv+vJf/SiGs2tLS/+QbrX/Xkv/pRDWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGtcf8AInad/wBf91/6Lt6ya1rj/kTtO/6/7r/0Xb1k1jR+H5v82c+H+B+sv/SmFFFFbHQFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWto3/IL17/rwX/0pgrJrW0b/kF69/14L/6UwVjW+Feq/NGGI+Besf8A0pGTRRRWxuFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGloP/ACEpf+vK7/8ASeSs2tLQf+QlL/15Xf8A6TyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8g3Wv+vJf/SiGs2tLS/8AkG61/wBeS/8ApRDWbQAUUUUAFFdR4O8P6XrNpq91rMl2kOnW4nxaMoZh8xP3gR29qmhh+H9zMsIuPEFsZDtE04hKIT3YDnH0rjli4RnKCi3y72V+lzgnj4RqSpqMm472V91f8jkaK1fEugXHhrXZtNuXEmzDRyqMCRD0bHb3HYg9etWdX0CLSNF0wzNK+q3488wLjbFCeEBGM7icnr7Y71qsRTag4u/Nt91zZYqlJQcXfn2+69zBortrzw34X8NSQ2Xii+1KbUXUPKmnqmy3BAwrFsknqcjt29cXxV4b/wCEdvoBDcreWV3Cs9rcBdu9D6jsf6YPsMqWMpVZKMb67aaP0MaOPo1pqMb67NppO3Z/1pqjDoqa0tZr68htbZC80ziNFHck4Fdnc+HPB2kakmjaxquotqIAE1zbogt4XPIBz8xxxnH6cgXWxMKTUXdt62Svp3NK+Lp0JKLTbetkruy6nDUV0Vx4cg0Xxsui+IJZBbGQL9ogwDtb7r8g8cjI9jWVrOlT6JrN1pt2P3tvIVJHRh1DD2IIP41UK9Oo0ovdXXmv6/MuniaVWSUHe65l5r+t/VFKiiitzoCiiigDWuP+RO07/r/uv/RdvWTWtcf8idp3/X/df+i7esmsaPw/N/mznw/wP1l/6UwooorY6AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1tG/5Bevf9eC/wDpTBWTWto3/IL17/rwX/0pgrGt8K9V+aMMR8C9Y/8ApSMmiiitjcKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/ANeV3/6TyVm1paD/AMhKX/ryu/8A0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/8AIN1r/ryX/wBKIazaACiiigDvfhxFDNo3imK7uPs0D2IWSbYX8tcPlto5OPSqlj4e8GNfwC48ZebGZAGT+z5Itwz03k4X6npUnw/ltTpfiOyur+0spLyzEMTXcwjUsQw6n69qrR+BIzKnn+LPDiRbhvZL7cwXuQMDJ9sj614U2o4itzVHC9tktfdX91/gfM1JKGLr81WUL22Sd/dXeLf3M0fFFrd6x8WbWz1O2WGGWWKOEK24Pb7vvA98jd/LtWL8QLxr3x1qRY/LDJ5KD+6EGMfmCfxrZ1zxdp0/jfQp9MdpLHSvKjM7ptMihhuODg9PXvmsnx3btpnxCv32KwaZbhA43K4YBuR3Gcing1ONSkpxtaDsvmr/AIWLwCnGrRVSPK1Tdl81f52tczdBbQEuXbxKl/JEu0xpZbPmOeQ24jj6c10nj/zpf7H1nTpon0doRFYCNNpg2H7jAk5IxjP+z04o1bRdF8UXS6p4f1bSNIjlRRNY3kv2fyZAADtAXBHuOM5/Cr4n1PTzo+leGNGuluYLF2aa8YbUklY8kZ/hGW59/bJrn9tiKdSKd9eZPaKtr8729fQr2nt8VSqwUubXmi1pFW16aO9lpvr0H+EtVvPEPxO0u71mf7RNuI37FX7qMV4AA61g+JnZ/FmrM5yTezcn/fNTpv8ACPiq0nju7PUDbOku+zm8yNh3Xdgc4rpNV8P6F4g16TWrTxLp1rpt23nzxTy7LiNud4CHqc8j68Z4Jtzp0K6q2tBxsrLTR3tp3T09DRzpYbEqslam4WVk7aNu1ktLp6ehB8TxuvtFlbl30uLc3ryf8aj8fL9q0jwzqzqBNd2Hlyt/eKY5P/fVZfjbX4fEPiR7izUraQRrb24IwSi55/EkmtX4gN9k0zw3oz/6+ysA8o/us+Mj/wAdrOhTlT+rRkrP3r+ln+tjHD050vqkJK0veuuys9Pv5TiqKKK9s+jCiiigDWuP+RO07/r/ALr/ANF29ZNa84/4o/Tv+v8Auv8A0Xb1kEVjR+H5v82YYf4H6y/9KYUUUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraN/yC9e/68F/9KYKya1tG/5Bevf9eC/+lMFY1vhXqvzRhiPgXrH/ANKRk0UUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/wAhKX/ryu//AEnkrNrS0H/kJS/9eV3/AOk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/AJButf8AXkv/AKUQ1m0AFFFFABRRRQAVu6zrsGtaHpqXMcg1SxU27TYBWWEfdyc53A5HT3z2rCorOVOM5Rk91sZTpRnKM3vHb8i1pUFvdaxZW99L5NtLcIk0u4LsQsAxyeBgZOTXpf8Awgnw+/6Gn/yo2/8A8TXlVFc2Jw1Ss04VXH0OPGYStiJJ06zhbtbU9V/4QT4ff9DT/wCVG3/+Jo/4QT4ff9DT/wCVG3/+JryqiuT+z8R/0ES/A4f7LxX/AEFT/A9btfBfw+tbyG4HiWOXypFfy5NQgKtg5wRt6Gp9W8MeB9a1a41G+8Vgz3D7m26hAAOwA+XoAAB9K8doqf7Mrc3P7eV9uhH9j4jn5/rMr2t02PVv+EF+H3/Q0/8AlRt//iaP+EF+H3/Q0/8AlRt//ia8pzRmq/s/Ef8AQRL8DT+y8V/0FT/A9W/4QX4ff9DT/wCVG3/+Jo/4QX4ff9DT/wCVG3/+JrynNGaP7PxH/QRL8A/svFf9BU/wPYX8G+Bjo9vA3iTFtHPK8cn26D5nZYwwztwcBUOO2eeoqp/wgvw+7+Kf/Kjb/wDxNcBOceD9O/6/7r/0Xb1kk81nTwFdx0ry3fbuzKjlmJcXbFSWr7d2eq/8IL8Pv+hp/wDKjb//ABNH/CC/D7/oaf8Ayo2//wATXlOaM1p/Z+I/6CJfga/2Xiv+gqf4Hq3/AAgvw+/6Gn/yo2//AMTR/wAIL8Pv+hp/8qNv/wDE15TmjNH9n4j/AKCJfgH9l4r/AKCp/gerf8IL8Pv+hp/8qNv/APE0f8IL8Pv+hp/8qNv/APE15TmjNH9n4j/oIl+Af2Xiv+gqf4Hq3/CCfD7/AKGn/wAqNv8A/E1U1XwZ4GtdHvbix8SedcxW7vDF9vgbe4UlRgLk5OBgV5pRVRwFdNN4iX4DjlmJjJN4qT+4KKKK9Y90KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1tG/wCQXr3/AF4L/wClMFZNa2jf8gvXv+vBf/SmCsa3wr1X5owxHwL1j/6UjJooorY3CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/8AXld/+k8lZtaWg/8AISl/68rv/wBJ5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/wDkG61/15L/AOlENZtaWl/8g3Wv+vJf/SiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANa4/5E7Tv+v+6/9F29ZNa1x/yJ2nf9f91/6Lt6yaxo/D83+bOfD/A/WX/pTCiiitjoCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigArW0b/kF69/14L/AOlMFZNa2jf8gvXv+vBf/SmCsa3wr1X5owxHwL1j/wClIyaKKK2NwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/5CUv8A15Xf/pPJWbWloP8AyEpf+vK7/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDWuP8AkTtO/wCv+6/9F29ZNa1x/wAidp3/AF/3X/ou3rJrGj8Pzf5s58P8D9Zf+lMKKKK2OgKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtbRv+QXr3/Xgv/pTBWTWto3/ACC9e/68F/8ASmCsa3wr1X5owxHwL1j/AOlIyaKKK2NwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/wCQlL/15Xf/AKTyVm1paD/yEpf+vK7/APSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/AMg3Wv8AryX/ANKIazaACiiigC7pOj6hrt+LPSbZrmcqW2qQAAOpJOAB9e5A710H/CvLuWRobLXNCvLrnbawX2ZHI6gAgc8d8U7wHqun2i6tpmp3RsV1S38iO725ETcjn0Hzew45I60+T4ba6saXmh3Fnq0O87JrG5GV29Dzjn2BNeTXxM41nCU1BK1rrR/PbytueHicZOGIlTnUVNK1m1pLTu2l5W3+9HJ3lncafeS2l7C0M8LbXjccg1auNEurTQ7XVLkxxxXcjJBExPmOF6vjGNueOuc9sc1p6tc6n4s8ZWsOrWq2d9M8Vq6LEyEZOAzKxJzg/kKm+Il2svi2SytxstdNjS1gjHRQo5/Un8q6I16kp06bsm1d9fu9W/uOqOIqyqUqTSTa5pW1Vlpp6t/cmY2h6He+ItWj0/TY98r5JZshY1HVmPYf4gdSKqXds9nez2spUvBI0bFehIODj8q9E8A+LXOt6PoWmafb2FqykXbqN8ly4jclmY9ATg46jGM44rh9aZV8UX7SJvQXkhZc43DeeM1NKvWliZU5xskk133a1+7Ymhia88XOlUjZKKaW73a16dNvxM4AswCjJPAA7110Xw31ZlhS4vNMs72dN8dhcXW2dxzjC4PXB7/XHNHhr+zdY+JOl/2fpg0+18wN9nMzTDKKWzubnnA4rL8WXs9x421S5eRhKt46qwPKhG2rg+wA/KlOrWqVVSp+77t3dXe9kt7d76iqV8RVrqhS9x8vM7pN6uyWjt0d9X5EFroF5P4iGiTmOzvTIYttyxUb+y5APXoOxyPWs+eCW1uJLe4QxyxOUdG6qwOCD+Ndt8TSV8QaXqUZ2T3NhFM5X++Cef0H5VW+IUEU9xpeuwrt/tezWWUAYHmqAGP6j/JpUMXKo6bltNfc1v8AJ6/cThsdOq6UprSon8pLf5NX+7zOPooor0j1wooooA1rj/kTtO/6/wC6/wDRdvWTWtcf8idp3/X/AHX/AKLt6yaxo/D83+bOfD/A/WX/AKUwooorY6AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1tG/wCQXr3/AF4L/wClMFZNa2jf8gvXv+vBf/SmCsa3wr1X5owxHwL1j/6UjJooorY3CiiigC5pWkX+t3ws9KtnuZyC21cDAHck8AdOT6iui/4V1fNK1vBrGiT3y7h9ijvczFgDlNuMbhg9+1aNgzaF8G7m+s22XWqXXkPKvDKgyNuf+At/30a4FWZGDISrKcgg4INedGpXxEp+zkoqLtte7W99dv6ueTCriMVOp7KSjGLcVpe7W99VpfSy18ya9srnTb6WzvoWguIW2vG45B/z371BXSy32o/EHxHptpcJbx3TKtuZ40ILKOSzZPJAyeMVqXcvgXS9WbR5dHurqOFmhm1P7WwcPkgssY+UgH+XQ97+tSglCcG52u1Hp56tfLqaPGzpqMJwbqWu1Gzsu+rW/Rb+Rw1Fd1ZeDLWy+KltoOoD7ZYTK8iEsV8xPLZl5UjoR264rl/skP8AwlP2PZ+4+2+Vsyfu78Yz16VdPF06jtH+VS+Tv/kaU8dRqu0NfdUr+Tv+OhW07T7rVdQisrCLzbiY4RNwXJxnqSB2pt7aPYahcWcxVpLeVonKnglTg49uK9H0yz0nQfjTJpttpuYwyC1bz3/0cmEMx5zuzk8E965HxrdWFz4nvBp+nfYmjnlSZvPaTzn3nL8/dz6CsKOMlWrqMYvlcVK+nX5/L18jmw+PlXxKhGD5HBST0699fltvfpZnP0UUV6R64UUUUAFFFFABRRRQAUUUUAaWg/8AISl/68rv/wBJ5Kza0tB/5CUv/Xld/wDpPJWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaX/yDda/68l/9KIaza0tL/wCQbrX/AF5L/wClENZtABRRRQB1vhLRNM8R6NqWnYRNe4ksXklKhwOWQDOCcA9u+exqlbeFfFdrqqpaaVqUF0khRZo42QKemRIPlx75xjvXP1pt4m154zG+t6iyMNpU3chBHpjNcUqVeM5OnJNS6Su7enl5f5nnTo4mM5OlJOMukru2ltNdn27+p3niDUoI/iV4ZFxJHNfWqwxX80ZGPMLYIP0yT+Ncd45ga38dauj9Tcs/4N8w/Q1gglWBU4I5BHaup8W31t4gsdP12OeMXzoLa+g3AP5iDiQL1Kkd+gwBXPRw/wBVq07aqzj873Xot/wRy0MJ9SrUktVyuN/O/MvRbry0Qnw3/wCShaX/AL0n/otqx9cVn8TaiqAszXkoAAySd5qHTPtp1S2TSpJI72SQRwtFJsbc3ygBsjGc4610jfDjxm05mbTXMpbeZDdxbi2c5zv65rWpKlRxDq1JpXilZu2zb/U3qzo4fFutVqRjeKSTaWzbvr6mf4fmn8L+MtPuNVt57TyZQZFmjKMEbgnB56E1r+JPBGs3HjW5XTbKW5tr6Yzw3SLmLa53cuOBjJ6+nuMsu/h/451Cfz7+ymuZcY8ya9jdsemS9TweDfiJa2f2S2S8htsEeTHqKKmD1+UPjnJrkniKXtFWhWgpWs9Vbv36HDUxVF1FXp4imp8vK7tW7prW+j++5U+JOoW914mitLKUSw6dbJa7x0LLnP8APH4VY8cHyvCfhC0fiWOyaVlPUB9mP5Gm6b8LfEk2qW0eo2At7RpB50v2iM7UzzgBic46cda0fFvg/wAXeIfEc95Fo+y2XEVsn2iEbYl4X+Lv1/Gs41sLCpRpxqxtBN3ut7W/G7ZjDEYKnUoUo1otU023zLVtW77u7fkedUV1f/CsvF3/AECf/JmL/wCLo/4Vl4u/6BP/AJMxf/F16f17Cf8AP2P/AIEv8z2f7SwP/P6H/gS/zOUorq/+FZeLv+gT/wCTMX/xdH/CsvF3/QJ/8mYv/i6Pr2E/5+x/8CX+Yf2lgf8An9D/AMCX+ZlXH/Inad/1/wB1/wCi7esmu7m+HnihvDdlarpeZoru4kdftEXCskIU53Y5KN+VZ/8AwrLxd/0Cf/JmL/4usqWOwqjrVju+q7vzMKGY4JQd60d5faXd+ZylFdX/AMKy8Xf9An/yZi/+Lo/4Vl4u/wCgT/5Mxf8Axda/XsJ/z9j/AOBL/M3/ALSwP/P6H/gS/wAzlKK6v/hWXi7/AKBP/kzF/wDF0f8ACsvF3/QJ/wDJmL/4uj69hP8An7H/AMCX+Yf2lgf+f0P/AAJf5nKUV1f/AArLxd/0Cf8AyZi/+Lo/4Vl4u/6BP/kzF/8AF0fXsJ/z9j/4Ev8AMP7SwP8Az+h/4Ev8zlKK6v8A4Vl4u/6BP/kzF/8AF1DdfDzxRZWc11daXshgjaSRvtER2qoyTgNnoKax2FbsqsfvX+Y1mOCbsq0f/Al/mc1RRRXWdwUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRWha+H9ZvrZbiy0m+uIHztlitndWwcHBAx1BFTf8Ip4h/6AWp/+Acn+FZOtSTs5L7zF4iinZzX3oyaK1v8AhFPEP/QC1P8A8A5P8KP+EU8Q/wDQC1P/AMA5P8KXt6P8y+9C+s0P5196Mmitb/hFPEP/AEAtT/8AAOT/AAo/4RTxD/0AtT/8A5P8KPb0f5l96D6zQ/nX3oyaK1v+EU8Q/wDQC1P/AMA5P8KP+EU8Q/8AQC1P/wAA5P8ACj29H+Zfeg+s0P5196MmtbRv+QXr3/Xgv/pTBSf8Ir4h/wCgFqf/AIByf4Vp6V4b12LTdaWTRdQVpLJVQNauC5+0QnA45OAT9AaxrV6XKveW66+aOeviaDgvfW8eq/mRy9Fa3/CK+If+gFqf/gHJ/hR/winiH/oBan/4Byf4Vt7ej/MvvR0fWaH86+9GTRWt/wAIp4h/6AWp/wDgHJ/hR/winiH/AKAWp/8AgHJ/hR7ej/MvvQfWaH86+9HS+Fmi8S+CL3wmZki1BJftViJDgSkdUHv1/wC+s9AawofBHiWbURZDRrtJN5Qu8RWMY6nf93HHXPPbNV/+EU8Q/wDQC1P/AMA5P8K0pIPHs0DwzR+I5InUo8bLOVZSMEEdxjtXBrSnJ0akbSd7Po/Kz/D8Ty9aM5vD1YWk72fR9WrPZ9u/U3In8PeEfiBoUFnIrPZqYtSuxISjSupU9TgbcknHTODyDWVq/gPXpPF09ta2Es0NzOzxXSqTEUYkhi44HHUdfrxWN/winiH/AKAWp/8AgHJ/hV5LDxtFYmyjtdfS0KlDAscwj2nqNvTByeKhQ9nJTp1U5Ws+bW+rd9+7enb0IVN0pKpSrxcuXlbk731bvv0bem1tOh2M+r2J+NmkLFcK0NlB9iMmRtL7HGAf95wPrWAngzWz4/YTWE0VtHe+c9067YhHv3bt/Q8ds57VzkvhrXbeF5Z9F1COONSzu9q4VQBkkkjgVHNrurXMKQ3GqXssUZDIj3DsqkdCATxiinhJRt9Xmn7vK+vd30fm9BUsDKFvqtRP3VB312bd9H5vQ7+8YJ+0IpY4Hmxj8TbqBXF+LtPvLHxTqJvLWaATXUrxNIhAkUueVPcc9RWXcXt1dXZurq5mmuCQTNJIWckcD5jzxgflUl7qd/qTI2o31zdlAQhnmZ9ueuMnit8PhJ0Zwd1pFRfy6o6cLgqmHnTldNKCg/l1RVooor0T1gooooAKKKKACiiigAooooA0tB/5CUv/AF5Xf/pPJWbWloP/ACEpf+vK7/8ASeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v8A5Butf9eS/wDpRDWbWlpf/IN1r/ryX/0ohrNoAKKKKACiiigAooooAltbqayvIbq1fZNBIskbYB2spyDg8dRXTf8ACzfF3/QW/wDJaL/4iuUorCrh6NZ3qQUvVJnNWwuHrtOtTUrd0n+Z1f8Aws3xd/0Fv/JaL/4ij/hZvi7/AKC3/ktF/wDEVylFZfUcJ/z6j/4Cv8jH+zcD/wA+Yf8AgK/yOr/4Wb4u/wCgt/5LRf8AxFH/AAs3xd/0Fv8AyWi/+IrlKKPqOE/59R/8BX+Qf2bgf+fMP/AV/kdX/wALN8Xf9Bb/AMlov/iKP+Fm+Lv+gt/5LRf/ABFcpRR9Rwn/AD6j/wCAr/IP7NwP/PmH/gK/yOr/AOFm+Lv+gt/5LRf/ABFH/CzfF3/QW/8AJaL/AOIrlKKPqOE/59R/8BX+Qf2bgf8AnzD/AMBX+R3c3xD8UJ4asrpdUxNLd3Ebt9ni5VUhKjG3HBdvzrP/AOFm+Lv+gt/5LRf/ABFZVwP+KO07/r/uv/RdvWTWVLA4Vx1pR3fRd35GFDLsE4O9GO8vsru/I6v/AIWb4u/6C3/ktF/8RR/ws3xd/wBBb/yWi/8AiK5SitfqOE/59R/8BX+Rv/ZuB/58w/8AAV/kdX/ws3xd/wBBb/yWi/8AiKP+Fm+Lv+gt/wCS0X/xFcpRR9Rwn/PqP/gK/wAg/s3A/wDPmH/gK/yOr/4Wb4u/6C3/AJLRf/EUf8LN8Xf9Bb/yWi/+IrlKKPqOE/59R/8AAV/kH9m4H/nzD/wFf5HV/wDCzfF3/QW/8lov/iKhuviH4ovbOa1utU3wzxtHIv2eIblYYIyFz0Nc1RTWBwqd1Sj9y/yGsuwSd1Rj/wCAr/IKKKK6zuCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKM0UUAGaM0UUAGaM0UUAGaM0UUAFauj/wDIL17/AK8F/wDSmCsqtbRx/wASvXv+vBf/AEpgrGt8K9V+aOfEfAvWP/pSMmjNFFbHQGaM0UUAGaM0UUAGaM0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGloP/ACEpf+vK7/8ASeSs2tLQf+QlL/15Xf8A6TyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8g3Wv+vJf/SiGs2tLS/8AkG61/wBeS/8ApRDWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGtcf8idp3/X/df+i7esmta4/wCRO07/AK/7r/0Xb1k1jR+H5v8ANnPh/gfrL/0phRRRWx0BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraN/yC9e/68F/9KYKya1tG/wCQXr3/AF4L/wClMFY1vhXqvzRhiPgXrH/0pGTRRRWxuFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGloP8AyEpf+vK7/wDSeSs2tLQf+QlL/wBeV3/6TyVm0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWl/8AIN1r/ryX/wBKIaza0tL/AOQbrX/Xkv8A6UQ1m0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBrXH/Inad/1/wB1/wCi7esmta4/5E7Tv+v+6/8ARdvWTWNH4fm/zZz4f4H6y/8ASmFFFFbHQFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWto3/ACC9e/68F/8ASmCsmtbRv+QXr3/Xgv8A6UwVjW+Feq/NGGI+Besf/SkZNFFFbG4UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWg/8hKX/ryu/wD0nkrNrS0H/kJS/wDXld/+k8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf8AyDda/wCvJf8A0ohrNrS0v/kG61/15L/6UQ1m0AFFFFABRRRQAUUUUAFdL4F8O2/iDXWGoll0+ziNxckZG5R/DkcjPtzgHFc1XefC+QTy65pakCa+sGWIE4ywBGP/AB7P4Vw5hUnTws5Qdn37d38kedmlSdLB1J03Z237a6v5LUqXXxJ1eG4aPw4LfR9PUkRW0FtGeM/ebIPzHvjjj8aTWbzRvFem2V1DHDY+IZLgRT28ELKk4Zv9Z0xnJ7nJ568VyDo0cjJIpV1OGVhgg+ldH4f0O7jt7TxNI0Udja6hChDsQ8h3rnaMYIGfXsfSsqmGw9BKpD3Wtmur7PvfzMKuEwuGjGrT92S2a3k30f8ANfz16nReJfFF14J1aPQPCvk2lvZIhuG8lWa5kKgksSPTA4wevPTGT48sbR4dI17T7ZLaPVrffLDEMKkq43Y9Ov6E1F8TIXi+IWol1wJPLdT6jy1H8wfyq74xPk+AfCNu/Epgklx6KdpB/HNceHhGH1apD4p/E+94tu/fX7jgwlOFP6pVp/FNe8+srxcnfvr92xw9FFFe+fThRRRQBrXH/Inad/1/3X/ou3rJrWuD/wAUdp3/AF/3X/ou3rJrGj8Pzf5s58P8D9Zf+lMKKKK2OgKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACtbRv+QXr3/Xgv/pTBWTWto3/ACC9e/68F/8ASmCsa3wr1X5owxHwL1j/AOlIyaKKK2NwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/wCQlL/15Xf/AKTyVm1paD/yEpf+vK7/APSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/AMg3Wv8AryX/ANKIazaACiiigAooooAKKKKACp7G+udMvobywmaC4hbdHIvUH+o9jwagrV/tiy/6FzTP+/lz/wDHqzqPS3LdP0/VmVV6cvLzJ+n6tG3c+MtF1WQXOu+Ebe6viMSTW93Jbq/JOSqg889SST+lZniPxXd+IRDb+TDZafbE/Z7K3Xaic9T6tjjPA64Ayar/ANsWX/QuaZ/38uf/AI9R/bFl/wBC5pn/AH8uf/j1cVPD06clKNN6bXd7eicrL5HnUsLSpSUo0pabXldL0Tk0vkbSeN7K+tbRfE/h6HV7mzURxXP2hoWKDGA4AO/nPXjk8cnOJ4g1+78R6oby92oAoSKGMYSJB0UCl/tiy/6FzTP+/lz/APHqP7Ysv+hc0z/v5c//AB6qp0adKXPCm7+q0v2XNZfIqlh6VGfPCk7+qsr72TlZX8rGVijFav8AbFj/ANC5pn/fy5/+PUv9sWP/AELmmf8Afy5/+PV0+0l/I/w/zOz2s/8An2//ACX/ADMnFGK1v7Ysf+hc0z/v5c//AB6j+2LH/oXNM/7+XP8A8eo9pL+R/h/mP2s/+fb/APJf8xLn/kTtO/6/7r/0Xb1lV1E+qWf/AAitg/8AYOnlWvbkCMyXG1SEg5H73OTkdTjgYxznM/tiy/6FzTP+/lz/APHqxo1JcvwPd9u78znoVZ8j9x7y/l/mfmZWKMVq/wBsWP8A0Lmmf9/Ln/49S/2xY/8AQuaZ/wB/Ln/49W3tJfyP8P8AM39rP/n2/wDyX/MycUYrW/tix/6FzTP+/lz/APHqP7Ysf+hc0z/v5c//AB6j2kv5H+H+Y/az/wCfb/8AJf8AMycUYrW/tix/6FzTP+/lz/8AHqP7Ysf+hc0z/v5c/wDx6j2kv5H+H+Ye1n/z7f8A5L/mZNFav9sWX/QuaZ/38uf/AI9UV1qVrcWzRxaLY2rtjEsTzll57bpCPbkU1Uk38D/D/MFVm3bkf4f5mfRRRWpuFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFa2jf8gvXv8ArwX/ANKYKya1tG/5Bevf9eC/+lMFY1vhXqvzRhiPgXrH/wBKRk0UUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/yEpf8Aryu//SeSs2tLQf8AkJS/9eV3/wCk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/kG61/15L/6UQ1m0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBrXH/ACJ2nf8AX/df+i7esmta4/5E7Tv+v+6/9F29ZNY0fh+b/NnPh/gfrL/0phRRRWx0BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraN/yC9e/68F/9KYKya1tG/5Bevf9eC/+lMFY1vhXqvzRhiPgXrH/ANKRk0UUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/wAhKX/ryu//AEnkrNrS0H/kJS/9eV3/AOk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/AJButf8AXkv/AKUQ1m0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBrXH/Inad/1/3X/ou3rJrWuP8AkTtO/wCv+6/9F29ZNY0fh+b/ADZz4f4H6y/9KYUUUVsdAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFa2jf8gvXv+vBf/SmCsmtbRv8AkF69/wBeC/8ApTBWNb4V6r80YYj4F6x/9KRk0UUVsbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaD/AMhKX/ryu/8A0nkrNrS0H/kJS/8AXld/+k8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/ACDda/68l/8ASiGs2tLS/wDkG61/15L/AOlENZtABRRRQAUUUUAFFFFABRRRQAUUYr03VvBmjH4cwX2nWpj1VLCC9lfzHPmKVG84JwO54HpXJiMVTw8oKd/edv8AhzixWNp4WUI1E/fdvT18jzKirmk6dJqus2mnw53XEyx59ATyfwHNdf8AEvw/o2hf2W2g24iS4WXewlZ9+0qAfmJ9T0p1MVCFeFB7yv8Ah3CpjadPEwwzvzTvbsra6+vQ4Siiiuo7QooooA1rj/kTtO/6/wC6/wDRdvWTWtcf8idp3/X/AHX/AKLt6yaxo/D83+bOfD/A/WX/AKUwooorY6AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1tG/wCQXr3/AF4L/wClMFZNa2jf8gvXv+vBf/SmCsa3wr1X5owxHwL1j/6UjJooorY3CiiigAoro/C/hmHV4bvUtXumstIsQDPMoyzE9EX3P49RxzVs614I87yR4Uufs/3ftP29/Nx/e2fd3d8ZxXJPFJTcIRcmt7W0+9rXyVzgnjUqjp04Sm472tp97Wvkrs5Giun8R+ElsI7C/wBAmk1HTNSIW2bbmQSdPLIHVvoOoIxxXOXFtPZ3DwXcMkEyHDRyoVZfqDyK1o16daPNB/5+ehvQxNKvFSpv/PTR3XkyOip5rK6toIZ7i2miiuATDJJGVWQDqVJ69R09anl0PVobL7ZNpd7Ha7Q3nvbuEweh3Yxg5FX7SCtruaOrTVryWpRoqa3s7m7WU2tvLMIUMkpjQtsQdWOOgHqalvNK1HT40kv7C6tUk+400LIG+hI5p88U+W+o/aQUuVvUqUUV1ngDwsniHWS+o2txJpsCMztGrBZHGP3e4d/mzgHNZ160KFN1J7IyxOIp4alKtU2RydFeh6Vo2javqmpQ3PhebRzaabJMsE1zMWL5GH+bB/DpXn8MMtzOkNvG8ssjBUjRSzMfQAdTWdHExquSs1a1726+jaMsPjIV3KNmnG1726+abQyird7pOo6YqHUbC6tBJkIZ4WTdjrjI5qN7K6jso7yS2mW2lYrHO0ZCOR1AboTwfyrdTi0mnudSqQkk01ZkFFTvYXkdil69rOtpI2xLgxkRs3PAboTwePY0PZXUdlHeSW0y20rFY52jIRyOoDdCeD+VPmj3Dnj38vmQUUUVRZpaD/yEpf8Aryu//SeSs2tLQf8AkJS/9eV3/wCk8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf/IN1r/ryX/0ohrNrS0v/kG61/15L/6UQ1m0AFFFFABRRRQAUUUUAFFFFACivX49Qjs9S8G29zzbahoy2kynoQ6KB/49j868fzXWeK9ds7/T/Da6Zcl57CwjimwjKY5FC8ZIGeR1FeZjqDrzpwtp72va6PHzLDPE1KcLae9d9rxdn9+xb8OWDeHNW8QancDnQ45IomYdZmJRD/P86PHJLeEfB5Y5Js3JJ78JUvjbxXperaFDFpDH7TfyrdaiNjDa6xqoXkYI78dxnvWZ4q1mw1Lw34btbKfzJrG1aO4XYw2MdvGSMHoema5KMK1StTr1ItNt38kotfi729UcNCFeriKWJqwabbT02Sg1r6ybt3ujlqKKK94+mCiiigDWuP8AkTtO/wCv+6/9F29ZNa1wf+KO07/r/uv/AEXb1k1jR+H5v82c+H+B+sv/AEphRRRWx0BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraN/wAgvXv+vBf/AEpgrJrW0b/kF69/14L/AOlMFY1vhXqvzRhiPgXrH/0pGTRRRWxuFFFFAHenj4Fj7Pk51H9/jt6Z/wDHa4Kuj8LeJ4tHhu9O1W2a80i+XE8KnDKf7y+/5dBzxVv+xvBBmE48VXIt/vfZTYP52P7m/wC7u7ZxivLpSeFnUjOLabbTSb36aXtbzPGozeCqVY1ItqUnJNJyvfponZrz0NGxmlh+Cc0z/I8OqK1q+OQRtOR+O6m+MdPPiXVdA1bTwP8AiexJE5VchZlIVs/TIH/ATWN4p8UQata2elaPbNZ6RYj9zE5G927u2OM8n16k55rb8EeMNL0nQJYNZO6fT5WutOUox3OyMpXIGAOe/wDez2rjlSr0Y/WYR95yk7dbS0X4pN9tTglQxNCH1ynB87lJ8vW0lZJ/NRk+2pvwCy1f4p/YUWJrHw7YkW8bkeWHTaCT9C3/AI5VOyk1+HX01C68eaFNEZAZbc6nmNkzyoTG0cVxnhbxRLoHif8AtS4Q3KTbkul7yKxy3tnIB/CtU6d4CS/+3f27dSWY/ef2YLRxKeM+X5nTrxn07/xVnPCOlLkkm48qStHm739G3r289DGpgZUJunNNx5Ek1Dnu9eb0bbvfRPq9DovDS2GneP8AxO2iPBPZx2DSxeUwaM5CMVBHGASR+FebajrGo6uynU72e7KMzJ5zltu7GcZ6DgcDiun8L+INF0/WNdnKf2baXVlJDaw/PLgnGBnk5OM5PFcXXfg6DjWnKad7Rs3vtrr+dj08BhnDETnUi72gk2tdI669+9mFd78KL26TW721W5mW3+xSy+SJDs35QbsdM479a4Kup+H+s2Gia5dXGqT+RFJZSRK2xmyxK4Hyg+hrbMIOphZxSu7HTmtN1cFUjFXdttzW+Ht7dahqGvT39zNcy/2TIPMmkLtjI4yai8LynQfh1q/iCyCjUWuVs4pioJiXCkkZ9d36D0rP8C6zYaNNqzalP5IuLCSGL5Gbc5IwOAcfjSeFtf06DSr7w/4hEo02/ZX8+EZaCQEfNjuOB+XQ5rhr0J89S0fdvDS26W6Xf0+R5mJw83UrcsG43puyW8Vul39PkbPgPVb7xLc3/h7XbqW/tLq1dw1y5kaFxjDBjyMfzxVHR2/tb4V6zpx+aXTbhL2IHsp4bH0G4/jUtjqnh3wZZ3c+h6jLrOq3ULQxTfZmhjtlOOSG6nvxnpjjvl+BdZsdI12VdZbbp15bPb3HylhgjIyACTyMcetKVKTVSrSg0k4tK1ruO+m+q08xSoykqtejBqKcZRVmm3H4rR0eq021Oz1i3iPw3m8PKii50uwtr5u3zszGQfgD1/2q5vx4x07SvD/h9fl+x2QmmUDA82Tk/wAj+dWtP8Xaa/xM1XUNSlI0rUI5LZ2MbENHtAXK4J5CgdO/1rmPFerjXPFV/qEbFopZSIif7g4XjtwBxU4PD1Y14qa0+P8A7ekkmvlqTl+FrwxEVUi7fH/29JJNfL3n8zIooor6A+oNLQf+QlL/ANeV3/6TyVm1paD/AMhKX/ryu/8A0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/8AIN1r/ryX/wBKIazaACiiigAooooAKKKKACtX7P4e/wCgpqf/AILY/wD4/WVRUSi5bO33fqmZzhKW0mvS36pmr9n8Pf8AQU1P/wAFsf8A8fo+z+Hv+gpqf/gtj/8Aj9ZVFR7OX87/AA/yM/ZT/wCfj/8AJf8AI1fs/h7/AKCmp/8Agtj/APj9H2fw9/0FNT/8Fsf/AMfrKoo9nL+d/h/kHsp/8/H/AOS/5Gt9m8Pf9BTU/wDwWx//AB+j7N4e/wCgpqf/AILY/wD4/WTRR7OX87/D/Ifsp/8APx/+S/8AyJrfZvD3/QU1P/wWx/8Ax+j7N4e/6Cmp/wDgtj/+P1k0Uezl/O/w/wAg9lP/AJ+P/wAl/wDkTqJ4ND/4RSwB1HUBF9tudrDT03E7IMgjzuB05yc5PAxzmfZ/D3/QU1P/AMFsf/x+luP+RO07/r/uv/RdvWTWNGnLl+N7vt3fkc9ClPkfvveX8v8AM/I1vs3h7/oKan/4LY//AI/R9m8Pf9BTU/8AwWx//H6yaK29nL+d/h/kdHsp/wDPx/8Akv8A8ia32bw9/wBBTU//AAWx/wDx+j7N4e/6Cmp/+C2P/wCP1k0Uezl/O/w/yD2U/wDn4/8AyX/5E1vs3h7/AKCmp/8Agtj/APj9H2bw9/0FNT/8Fsf/AMfrJoo9nL+d/h/kHsp/8/H/AOS//Imr9n8Pf9BTU/8AwWx//H6iuodHS2ZrK/vpZhjaktkkannnLCViOPY1n0U1Tkn8b/D/ACBUpp353+H+QUUUVqbhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaFrBo72yte399FMc7kiskkUc8YYyqTx7Cpvs3h7/oKan/4LY//AI/WTRWTpyb+J/h/kYulJu/O/wAP8jW+zeHv+gpqf/gtj/8Aj9H2bw9/0FNT/wDBbH/8frJopezl/O/w/wAheyn/AM/H/wCS/wDyJrfZvD3/AEFNT/8ABbH/APH6Ps3h7/oKan/4LY//AI/WTRR7OX87/D/IPZT/AOfj/wDJf/kTW+zeHv8AoKan/wCC2P8A+P0fZvD3/QU1P/wWx/8Ax+smij2cv53+H+Qeyn/z8f8A5L/8ia32bw9/0FNT/wDBbH/8frT0q30MabrOzUtQKtZKHLWCAqPtEPIHnHJzgY44JPbB5atfRj/xK9d/68F/9KYKyrU5cvxvddu68jCvSnyL33vH+XuvIQ23h/8A6Cmp/wDgtj/+P0fZvD3/AEFNT/8ABbH/APH6ySaK19nL+d/h/kb+yn/z8f8A5L/ka32bw9/0FNT/APBbH/8AH6Ps3h7/AKCmp/8Agtj/APj9ZNFHs5fzv8P8g9lP/n4//Jf/AJE1fs/h7/oKan/4LY//AI/R9n8Pf9BTU/8AwWx//H6yqKPZy/nf4f5C9lP/AJ+P/wAl/wAjV+z+Hv8AoKan/wCC2P8A+P0fZ/D3/QU1P/wWx/8Ax+sqij2cv53+H+Qeyn/z8f8A5L/kaUsGhiFzBqOoPKFOxXsEVSewJExwPfB+lZtFFXGLju7/AHfokawi47yb9bfokFa+i6lo1jFKusaD/ajswKN9seHYO4wo5rIooqQVSPK7/JtfirMVSnGrHlle3k2n96aZ1f8AwkHhH/oSf/KtL/hWXrWpaNfRRLo+g/2W6sS7fbHm3jsMMOKyKKxhhacJcycvnKT/AAbsc9PB0qclKLldd5za+5yaCiiiuk7AooooAKKKKACiiigDS0H/AJCUv/Xld/8ApPJWbWloP/ISl/68rv8A9J5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/+QbrX/Xkv/pRDWbWlpf8AyDda/wCvJf8A0ohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDWuP+RO07/r/uv/AEXb1k1rXB/4o7Tv+v8Auv8A0Xb1k1jR+H5v82c+H+B+sv8A0phRRRWx0BRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVraN/yC9e/wCvBf8A0pgrJrW0c/8AEr17/rwX/wBKYKxrfCvVfmjDEfAvWP8A6UjJooorY3CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/AJCUv/Xld/8ApPJWbWloP/ISl/68rv8A9J5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/+QbrX/Xkv/pRDWbWlpf8AyDda/wCvJf8A0ohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDVuP+RO07/r/uv/AEXb1lV6L4R8Hw+LvhzcRiTyb22v5WtpSTtyY4sqw9Dgc9RgH1B4K/sLrTL+ayv4WguIW2vG3UH+o7gjgjmuHDYinOc6KfvRbuvV3PNweLo1KlShF+9Bu69Xe/pqV6KKK7j0gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK1dH/5Bevf9eC/+lMFUrCwutTv4bKwhae4mbaka9Sf6DuSeAOa9Q1fwVa+E/hXqjNtn1KZYRPcAcAech2J6L+pPJ7AefjMXSoyhSk/ek1ZfNanlY/HUaEqdGT96co2X/by19DyeiiivQPVCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/8AXld/+k8lZtaWg/8AISl/68rv/wBJ5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/wDkG61/15L/AOlENZtaWl/8g3Wv+vJf/SiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPa/g3/AMiddf8AX+//AKLjrY8beCrXxZYbl2walCuILgjgjrsf1X9QeR3Bx/g1/wAiddf9f7/+i469Ar83x1apQzGdSm7NM/I8yxFXDZtUq0naSZ8uX9hdaZfzWV/C0FxC21426g/1HcEcEc1Xr6D8beCrXxZYbl2walCuILgjgjrsf1X9QeR3B8Ev7C60y/msr+FoLiFtrxt1B/qO4I4I5r7PLcyp46n2kt1+q8j9CynNqWY0u01uv1Xl+RXooor1T2gooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACrFhYXWp38NlYQtPcTNtSNepP8AQdyTwBzRYWF1qd/DZWELT3EzbUjXqT/QdyTwBzXvfgnwVa+E7Dc22fUplxPcAcAddiei/qTyewHlZlmVPA0+8nsv1fkeLm2bUsupd5vZfq/L8w8E+CrXwnYbm2z6lMuJ7gDgDrsT0X9SeT2AZ8Tf+Sdan/2y/wDRqV1dcp8Tf+Sc6n/2y/8ARqV8Nh61Svj6dSo7tyj+aPzXCYiriczpVarvJzj+aPn+iiiv04/ZAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/5CUv8A15Xf/pPJWbWloP8AyEpf+vK7/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD2v4Nf8iddf9f7/wDouOvQK8/+Df8AyJt1/wBf7/8AouOvQK/Mc1/32p6n45nf/Ixq+oVy/jbwVa+LLDcu2DUoVxBcEcEddj+q/qDyO4PUUVx0a1ShUVSm7NHn4fEVcNVVWk7SR8uX9hdaZfzWV/C0FxC21426g/1HcEcEc1Xr6D8beCbXxZYblKwajCuILgjgjrsf1X9QeR3B8Ul8I+IoZnifQ9QLIxUlLZ2UkehAII9xxX6HgM0o4uneTUZLdf5eR+rZXnVDHUeaTUZrdN/ivL8jHorW/wCEV8Q/9ALU/wDwDk/wo/4RTxD/ANALU/8AwDk/wr0fb0f5l96PW+s0P5196Mmitb/hFPEP/QC1P/wDk/wo/wCEU8Q/9ALU/wDwDk/wo9vR/mX3oPrND+dfejJorW/4RTxD/wBALU//AADk/wAKP+EU8Q/9ALU//AOT/Cj29H+Zfeg+s0P5196Mmitb/hFPEP8A0AtT/wDAOT/Cj/hFPEP/AEAtT/8AAOT/AAo9vR/mX3oPrND+dfejJorW/wCEU8Q/9ALU/wDwDk/wo/4RTxD/ANALU/8AwDk/wo9vR/mX3oPrND+dfejJorW/4RTxD/0AtT/8A5P8KP8AhFPEP/QC1P8A8A5P8KPb0f5l96D6zQ/nX3oyaK1v+EU8Q/8AQC1P/wAA5P8ACj/hFPEP/QC1P/wDk/wo9vR/mX3oPrND+dfejJorW/4RTxD/ANALU/8AwDk/wo/4RTxD/wBALU//AADk/wAKPb0f5l96D6zQ/nX3oyaK1v8AhFPEP/QC1P8A8A5P8KP+EU8Q/wDQC1P/AMA5P8KPb0f5l96D6zQ/nX3oyaK1v+EU8Q/9ALU//AOT/Cj/AIRTxD/0AtT/APAOT/Cj29H+Zfeg+s0P5196Mmitb/hFPEP/AEAtT/8AAOT/AAo/4RTxD/0AtT/8A5P8KPb0f5l96D6zQ/nX3oyaK1v+EU8Q/wDQC1P/AMA5P8KP+EU8Q/8AQC1P/wAA5P8ACj29H+Zfeg+s0P5196Mmitb/AIRTxD/0AtT/APAOT/Cj/hFPEP8A0AtT/wDAOT/Cj29H+Zfeg+s0P5196MmrFhYXWp38NlYQtPcTNtSNepP9B3JPAHNaEXhHxFNMkSaHqAZ2CgvbOqgn1JAAHueK9r8E+CrXwnYbm2z6lMuJ7gDgDrsT0X9SeT2A87H5pRwlO8WpSey/z8jyc0zqhgaPNFqU3sk/xfl+YeCfBVr4TsNzbZ9SmXE9wBwB12J6L+pPJ7AdRRRX55WrVK9R1Kju2flOIxFXE1XVqu8mFcr8Tf8AknOp/wDbL/0aldVXK/EwZ+HWp/8AbL/0albYD/e6X+KP5o6Ms/36j/jj+aPn40UHrRX6oftYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWg/wDISl/68rv/ANJ5Kza0tB/5CUv/AF5Xf/pPJWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaX/wAg3Wv+vJf/AEohrNrS0v8A5Butf9eS/wDpRDWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACg8YpM0UUAFFFFABRRRQAUZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAM0ZoooAKKKKACiiigApQcUlFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWg/8hKX/ryu/wD0nkrNrS0H/kJS/wDXld/+k8lZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGlpf8AyDda/wCvJf8A0ohrNrS0v/kG61/15L/6UQ1m0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBueG/CWpeKmuRpZhBtgpfzX2/ezjHB9DW7/wqLxL62X/AH+P+FbXwT/12s/7sP8A7PVnxt8RNZ8PeKp9OsI7RoY1QgyxktyoJ5DD1r5uvjMdLHTw2Htok9fRf5nyOJzDMp5lPB4Tl91J6+i/VnOf8Ki8S+tl/wB/j/hR/wAKi8S+tl/3+P8AhT/+FweI/wDnlYf9+W/+Ko/4XB4j/wCeVh/35b/4qr/4Wf7pp/xkH9w5zxH4W1DwtcQw6n5O+ZC6+U+7gHHpWNW14l8VX/iq5gm1NYVeFCi+ShUYJzzkmsWvaw/tvZL21ubrbY+hwvt/Yx+sW5+ttgooorc6QooooAKKULkZzSHigAopQOKQ8GgAooooAK7Kw+F3iDUdOt723Np5VxEsqbpSDtYZGePeuNr6K0i5ey+GlndQ7TJBpKSLuGRlYsjP5V4ub4ythIwdG127anz2e5hiMFCm6FrydtTy7/hUXiX1sv8Av8f8KR/hJ4mVchbRz6LNz+oqT/hcHiP/AJ5WH/flv/iqkh+Mevo48600+Re48twfz3VhfOV0ic1+IFraByWseHNW0CQLq1jJbhuFc4Kt9GGR+GazK+hdC1nTfiD4XlFxbDa37q5t3OdjYzkH9Qf8K8K17Sn0TXrzTZDuNvKVDf3l6g/iCDXTl+YTxEpUa0eWcd0dmVZpPFznh8RDlqQ3XQ0PDngzVPFME8umGALAwV/NcryRn0NZGo2E2l6lcWNzt863kMb7TkZHpXS+DPHjeELW6hXTxd/aHV8mbZtwMehrntZ1E6vrV3qBi8o3MrSeXu3bcnpnvXVSliniZqov3fRnZRljXi6iqxXsvsvS/Tz9ehTRGkdUjUszHCqoySafcW01pcPBdRNFNGcOjjBU+hFeo/BiytpU1K7kgje4idFjlZcsgIOcHtXD+N/+R41f/r5aopY32mMnhkvhW/3GdHMfa4+phFH4Fe/e9v8AMwqKKK9E9YKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/ANeV3/6TyVm1paD/AMhKX/ryu/8A0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/5Butf9eS/+lENZtaWl/8AIN1r/ryX/wBKIazaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA9T+Cf+u1n/dh/wDZ6534p/8AJQLv/rnF/wCgCui+Cf8ArtZ/3Yf/AGeuy1pvBY1ST+3v7L+24G/7QF34xxnPtXx9XFfVs3qT5XLRKy9InwVbGfU89q1ORy91Ky32ifPWKXHFe67vhv8A9QP8koDfDjt/Yn4BK7/7b/6cy+49T/WL/qHn9x4SeK6Pwf4NvPFt8ywt5FpCR51wwzt9gO5rn5BmVsYxnjFe+aBFD4R+GUdyEG6O0N1IDxvkZd2D+YH4V1ZrjJ4WilS+OTsjszrMKmDoRVH45uy/zM2Xwx4B8JwouseS0rDObqQu7e+wdvoKIPD3w+8VxvFpQgEwGf8ARnaORffaev4g141qF/c6nqE15fStNPM253bv/gPam2l3PY3cV1ZytDPEwZHU4KmuX+ya/JzOvLn9dPu7f1Y4/wCw8Tyc7xM/ad76X9O39WOh8Z+CbvwldKxf7RYzHEU4GMH+6w7H+f54o+EdPttV8W6fY3yeZbzS7XUMRkYPcc17RP5fjb4aGSRBvurUuAB92VfT/gQ/KvIPAI/4r3Sv+u3/ALKaeEx1Wvg6qqaTgmn9z1HgcxrYnAV41dKlNSTa9HZ+un4HQfE7wvpHhuPTDo9qYftBl8zMjPnbtx1J9TXnpr1j41/6rRv96b/2SvJ668nqTqYKE5u711fqztyGrUrZdTnUk23fV6v4md/8L/DGk+JP7TGsWxn+z+V5eJGXG7fnoR6Cub8ZadbaT4wv7GwjMdvC6hFLFsfKD1PPeu6+CXXWv+2H/tSuP+In/JQNV/66L/6Atc9CtUebVabk+VRWnT7JyYavVlnlek5PlUVZX0Wkeh1vgnwTomt+B2v72yaa8zKFZZXGSOnAOK2fD/w+8P6FpEMniVbeW9lGXa5kARD/AHVBODj1q58KP+RDh/67yfzryPxhrM+ueKb25mkLxrK0cK54RAcAD+f1NebCOKxmLrUFVcYp/wDDJdjyaccbmGOxGGVZxgpX633dktdF/kdH8T9E0DRprH+xIfKmuVaR1jk3Js6A4Oepz044NejWn/JJ4v8AsCj/ANE18+FiQASSAMD2r6O8OvBH4B0x7vb9nXTYzLvGV2+WM5HcYozelLD4ejCUnJqW73YZ7RnhMJh6c5ObUt3u/wA/Q+cKK91/tz4c+mkf+AY/+Jqe11/wCkym1m0mF88MIFTH47RXa86qJf7vL+vkei+IKyV/qs/uf+Rl/CLSLvTtDvL29jaFLx1MSuMEqoPzfQ7v0rzPxnqcWseMtSvbYhoXl2ow6MFAUH8dua9t8T6bd+KPDrQ6DrEcCSqctHhknH93eOQPpXz/AKjp11pOoTWN/EYbiFtrqf5+496yyeccRiauJk/fenL2X9JGGQ1IYrF1sZOSVSWnL2Wn37L+md58MvCej+I7C/k1e1ad4ZVVCJWXAIPoRXKa1Y2dh42urFF8uyhvDHtLE7UDY69elei/Bb/kFap/12T/ANBNed+NP+R31j/r7k/nXThqtSeZV6bk7JKyvttsdeDrVZ5viKUpvlSVlfRbbHtvhC08M2kF0PCckbxsy+dslZ8HBx1PHeuY8W6d4EY6vPPNCNY2SNtNw4PnbTj5c4644qL4K/8AHhq3/XWP+TVwHjf/AJHjV/8Ar5avLwuDk8yqU/ay91LW+r23PHweXzebVqXtpe6k731e2jMKiiivsj78KKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/15Xf8A6TyVm1paD/yEpf8Aryu//SeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/AJButf8AXkv/AKUQ1m1paX/yDda/68l/9KIazaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA9T+Cf+u1n/AHYf/Z6574pH/i4F3/1zi/8AQBXQ/BP/AF2s/wC7D/7PXO/FP/koF3/1zi/9AFfNUP8Akd1f8P6RPkMP/wAlFW/wr8onHUueKSivpT68XrzXv3ikef8ACq4MHINjGwx6fKf5V4CDivdPh/q1r4m8D/2XdENLbwm1njzyYyMKfpt4+oNfPZ5FxjSr2uoS1/D/ACPlOJIyhGjiUrqnK7/D/I8KPWiug8TeDtU8N38iT28ktru/dXKKSjDtn0Psai8PeEtV8R3yQ2dtIkJP7y4dSEjHrnufYc17KxVB0vbcy5e59AsZh3R9vzrk73PZPhxmD4b6e03ACyvz2HmOf5V5H4BH/Fe6V/12/wDZTXrHi7UrTwd4BNjbtiRoPslqmfmPy4LfgOSfXHrXjvhK+j0/xfpl1OdsSXK72J+6CcE/rXzmWxlVo4qulpO9vx/zPlMphOvQxmJS0qc1v/Jv8z0D41/6nRv96b/2SvJj1r3T4oeHLvXtBgl02IzT2chfyl+8yEc49TwOK8Zh0TVLq6+zwaddPNnGwQtkfXjiu3I69P6jGPMrxvf77nfw5iaP9mxjzK8b38tW/wBT0j4Jg41pu37gf+jK474if8lA1X/rov8A6AtetfD3wzJ4X0Iw3zKL66bzZUVs7QOAvvjPJ9TXkvxE/wCSgar/ANdF/wDQFrlwFaFfNq1SDurflZfoceWYiniM7r1abunH8uVfoepfCj/kQ4f+u8n868MuP+PqX/fP869z+FH/ACIcP/XeT+deGXH/AB8y/wC+f51tlf8AvuK9V+bOjJf+RhjP8S/ORHX0Jaf8kni/7Ao/9E1894r6H06GS4+F9tBApeSXSFRFHcmHAFRn+kaTf8xnxRpCg3/MfPFFdH/wr/xT/wBAaf8ANf8AGnJ8PPFTsANHlBPq6D+Zr2/rmG/5+R+9H0X9oYP/AJ+x/wDAl/mbPwj1e5tvFP8AZodmtbuNi0ZPCsoyG+uAR+NaXxpsYku9LvkAEsqSROfULtI/9CNbfw8+H8/hy4fU9XZDeMmyOJDuEQPUk9z24/rXH/FfX4tW8RxWVq4kh09WRmB4MjEbvywB9Qa+epzhiM4VTD6xS1fR6P8A4H3HytGpTxefqrhdYpe81s9Gv8l8jpPgt/yCtU/67J/6Ca878af8jvrH/X3J/OvRPgt/yCtU/wCuyf8AoJrzvxp/yO+sf9fcn866cH/yNa/ov0OvAf8AI8xPov0PQfgp/wAeGrf9dY/5NXAeN/8AkedX/wCvlq734KODaaun8QeIn6EN/hXMeOfDGtDxbql2mm3Mts8jTCeOIsm3GSSRwMe9Rh5xhm9bmdrpfoRhKkKee4jnaV0t/SJxlFFFfSn14UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaWg/8AISl/68rv/wBJ5Kza0tB/5CUv/Xld/wDpPJWbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpaX/yDda/68l/9KIaza0tL/wCQbrX/AF5L/wClENZtABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAdR4L8aN4Pa8K2Iu/tQQcy7Nu3d7HP3qzvFGvnxLr8uptbi2Miqvlh92MADrgelZFFc0cLRjXeIS996N6/wDDdDkjgqEcQ8Uo++1ZvXbTpt0QUUUV0nWFXNJ1e+0TUEvdMnaCdOMjow9CO49qp0VMoxnFxkrpkzhGcXGSumeq6f8AGgiELquk7pAOZLeTAP8AwE9PzpdQ+NIMJXS9JIkI4e4l4H/AR1/MV5TRXk/2Lgebm5PxdvzPC/1dy3n5/Z/i7fmX9Y1u/wBe1BrzVLhppTwOyoPQDsKoUUV60YxhFRirJHuQhGnFQgrJdDv/AA38WNQ0m0js9UthqEMYCpJv2yKPQnBDfz963Lv4024hP2HSJWlI486UBR+QOf0rySivLqZPgqk+eUNfVo8arkOXVantJU9fJtL7kztdK+JmpWfiC61bUYBfSTxeUsQk8tYlznCjB4rnPEOrnXtfutTaHyDcMG8sNu24AHXA9KzaK7KeEoUqntKcbO1vl6bHfRwOGoVfa0oWla3y7W2O58K/Et/DGhJpq6WtyFdn8wz7M5Oem01xEj75GfGNxzim0VVLDUqM5VIKzlv5l0cHQoVJ1acbSnq99f6uGa9I0r4vSaZo9nYDRllFrAkIc3ON21QM428dK83oqcThKGKSVaN7ev6E4vA4fGxUa8bpebX5Hqf/AAuyT/oBJ/4FH/4imt8a5yvyaHGD6m5J/wDZa8uori/sXAf8+/xf+Z53+r2Wf8+vxl/mdlrXxR8QavA0ETxWELDDC2BDEf7xJP5YrjaKK9Chh6OHjy0opI9TD4WhhY8lCCivI63wZ47bwha3UK6eLv7Q6vkzbNuBj0Nc/rOonV9au9QMXlG5laTyw2duT0z3qlRShhqUKsq0V70t2TTwdCnXliIx9+W71/4Y2/C3im98KambqyCyJIu2WF/uuP6EdjXc3PxlguLGSFtCYmRCjA3QxyMddteV0Vz4jLcLiZ+0qxu/Vr8jmxWU4LF1Pa1oXl3u1+TCiiivQPUCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/wDXld/+k8lZtaWg/wDISl/68rv/ANJ5KzaACiiigAooooAKKKKACiiigAooooAKKKKANLS/+QbrX/Xkv/pRDWbWlpf/ACDda/68l/8ASiGs2gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANLQf+QlL/15Xf8A6TyVm1paD/yEpf8Aryu//SeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/AJButf8AXkv/AKUQ1m1paX/yDda/68l/9KIazaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0tB/5CUv8A15Xf/pPJWbWloP8AyEpf+vK7/wDSeSs2gAooooAKKKKACiiigAooooAKKKKACiiigDS0v/kG61/15L/6UQ1m1paX/wAg3Wv+vJf/AEohrNoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDS0H/kJS/9eV3/AOk8lZtaWg/8hKX/AK8rv/0nkrNoAKKKKACiiigAooooAKKKKACiiigAooooA0tL/wCQbrP/AF5L/wClENZtXtMvoLNbqO7t5J4rmHymEcojZfnR8glW/uY6d6k8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgDNorS8/Q/wDoHah/4Hp/8Zo8/Q/+gdqH/gen/wAZoAzaK0vP0P8A6B2of+B6f/GaPP0P/oHah/4Hp/8AGaAM2itLz9D/AOgdqH/gen/xmjz9D/6B2of+B6f/ABmgA0H/AJCMv/Xld/8ApPJWbWvBqWlWhlktNPvBK8EsSmW9VlG9GQkgRDOA2eorf/2Q==)**