**Trabajo Práctico N°1 – Pensamiento Computacional**

**Universidad de San Andrés**

“Simulador de Tenis en Python”

Nombre: Pedro Santiago Gentil

E-mail: [pgentil@udesa.edu.ar](mailto:pgentil@udesa.edu.ar)

**Objetivo:**

El objetivo de este trabajo es realizar un programa interactivo en Python donde el usuario pueda simular un *game* de tenis, de modo manual y simulado. El programa debe poder mostrar los puntajes de cada jugador en el *game*, cuyos nombres son elegidos por el usuario, mientras se juega en cualquiera de los dos modos. En el modo manual, por cada jugada, el usuario debe poder elegir quien ganará el punto y quien lo pierde. Al final, el usuario elije quien va a ganar el *game.* En el modo simulado, el usuario solo debe elegir el nombre de los jugadores, pero por cada jugada que pase, el marcador debe aparecer junto con el ganador del punto. En la creación del programa se deben utilizar funciones, variables y tipos, secuencias, condicionales y ciclos, y diagramas de flujo

Asimismo, el trabajo mostrará el desarrollo del programa, junto con explicaciones sobre el camino tomado para realizarlo. Ademas, los errores que se cometen y los problemas encontrados junto con las soluciones van a ser expuestos.

**Desarrollo:**

El programa hecho está compuesto por dos archivos *Python*. El principal, llamado *main2.py*, y el secundario llamado *v2.py*. Dentro de *main2* se definió una función sin parámetros con el mismo nombre, y se importo el archivo secundario junto con la función dentro. La función *main()* contenía diferentes variables, tal como los nombres de los jugadores como entradas hechas por el usuario, los puntos de cada jugador como enteros, una tupla con los diferentes puntajes reglamentarios del tenis, una variable de tipo *input* que decide si se juega en modo automático o en modo manual y otro *input* que, en caso de jugar al modo automático, decide si mostrar las impresiones de cada jugada o directamente el resultado final.

Dentro de *v2.py* hay una función con el nombre “score” que ejecuta la simulación del partido en sí, usando a las variables de la función *main2.py* como argumentos. Dentro del código se hayan condicionales y ciclos de tipo *while*.

El programa deja elegir el nombre, el modo y en caso de elegir el modo automático, si mostrar el *game* entero o solo el resultado, al usuario.

**Alternativas consideradas y estrategias tomadas:**

Durante el proceso de creación del código tuve dos cambios en mi idea original. El primero fue la definición de variables y su posición en el código. Al principio, quería hacer un programa dividido en tres archivos: uno para la función principal, otro para el modo manual y otro para el automático (simulado). Después, a recomendación del profesor y para no repetir código, lo cambie para que use solo dos archivos, uno para la función principal y otro para la función que ejecute el partido, y usar condicionales para hacer que el modo automático y manual se ejecuten en esa misma función.

El segundo cambio fue el de sistema de puntajes. No tenia claro como representar los puntajes en el programa, hasta que termine usando una tupla a la que llame “puntajes” con los puntajes reglamentarios del tenis, y otras dos variables, a las que llame “puntosp1” y “puntosp2”, que marcaban la posición del elemento llamado dentro de la tupla para representar los puntos de cada jugador.



Ilustración 1 Demostración de un f-string dentro de una función print() que imprime el marcador del game

Esto me ayudo, porque me vi más propicio a usar f-strings, lo que me ayudo a acortar bastante el código. En la Ilustración 2 se muestra que variables usaba para imprimir el marcador. Los puntos de los dos jugadores empezaban en 0, y cuando uno de los ganaba, se le sumaba un punto. Esto hacía que el puntaje de ese mismo jugador pase de 0 a 15, ya que se desplaza al siguiente elemento de la tupla que se puede visualizar en la Ilustración 1.

**Resultados de ejecuciones:**

Lo problemas que siguen son ejecuciones de la versión del programa que estaba dividido en tres archivos.

![Texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBlZHJvIEdlbnRpbAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzcwAACSkgACAAAAAzcwAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjAzOjI3IDE5OjQyOjA4ADIwMjI6MDM6MjcgMTk6NDI6MDgAAABQAGUAZAByAG8AIABHAGUAbgB0AGkAbAAAAP/hCx9odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTAzLTI3VDE5OjQyOjA4LjcwMDwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5QZWRybyBHZW50aWw8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgAuAHWAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A4HwnqstvoOvJ9k0yb7HY/aIHudMt53RzcQoTudCSNrsMEkc9Ktp4b8Np4VttT17V/st/qdvNdQCIOEVg7qqCJIGRssmD+9Tbu+7x83FRXE0KSpDNJGsybJVRiBIuQcH1GQDg9wKuWuv6xY6bLp1lq19b2M2fNtYrl0ikyMHcgODkcHNbyV1/X9f8MYxdv69P+D950994X0GPQ777IdRGo2Wk2movLLLGYWM3lbowgTOB5uQ272xxkmr3OnRWHgu8uYLy60pI5N9hcToxCLO29VdI0OG5POSM4zXIHUr5hIGvLgiWJYZAZW+eNcbUPPKjauB0G0elaMvjLxPOsSz+I9WkWF1kiD30pCMvRhluCOxHSn1v53/MNOW39dP1NzxCkEv9m6/5lte6JJcSRRx2NjDptwjKFYo4WMqSNy4YeYMdwTit2Twrp/iL4l+Ik1y71Cby723jWSN4kkczSrHliE28bs8KM4xxnI4GbxR4gudRg1C41zUpb23BENzJdyNJED1CsTkdT0p1x4r8RXcyzXevanPKu3a8t5IzDa25eSezAEeh5qUrNf12CTumWfGGj2GjapbR6Ubg29xarMBcurOCSwPKgD+HPTjOMnrXP1NcXVxdsrXU8s7IuxTI5bavoM9ByePeoaautwdm9AooopiCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAorT0zw5rmtQvNo2jahqEUbbXe0tXlVT1wSoODSDQdQbQZNYVIWsopBHIVuYzJGxJA3R7t4zg4JXBxQBm0VdfSb2PRYtXeHFjNO1uku9eZFAJGM56MOcYofSb2PRYtXeHFjNO1uku9eZFAJGM56MOcYoApUUUUAFFFFABRRRQAUUUUAFFFORS7qijLMcAe9G4DaKs6hYXOl6lcWF/H5VzbStFLHuDbWU4IyMg8jtVajcNgooooAKKu6npN7o88UOpQ+TJNAlwg3q2Y3Xcp4J6g9OtUqACiiigAoq7YaTe6nBezWUPmx2MH2i4O9Rsj3Bc8nnlhwMmqVABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHdeHPJufAMlqLPQ7+4XUmk8nVdTFqUUxKN6/v4t3PHfpUGh6c8nw715ftemRyXUtu8MMup28cjCMyb/kZw3GRjI5zxmuMopNXbfe34W/yGnZJHa31j9o+GFlLI+hC8t7lnxDcWaXJtzGu3cqMJHO7dwwLetWIZINb8LaJcaoNMsGOu/ZpL2LToIgkWyM/OEQBwMk/Nn3rgwdrAjHBzyM1par4h1HWobeG+eBYLYsYoba1it41LY3HZGqjJwMnGeB6U+rfp+FvzsLol6/jf8AzOs+Iw0dtJ0qTT49PivhPcJOlnc2kp8seX5Zb7NHHHzliOCeoJ4wMz4fnSV1S9bVYrea4FoTZR3U0MUbS7lzl50eIHZvxvUj6HBrk6KUVZWHJ3seiXOsaZYtrNzbaRolteNd2MccMrWt+qrsk8102r5WGIXdtXapYcAgY5PxYljH4y1hdI8n7CL2UW/kMGj8vedu0jgjHSseii2t/wCun+X4jueoeGrXT5/DcCWqaHLAdGvpL1biOCS8N0qSldu4GRQFVGBXC8HJyeaU2n6Guh6lqLXGj+VNo1jHbQxzRG488GATERg7lf5ZMkgE7iRkZNcNYajdaXcPPYy+VI8UkLNtDZR1KMOQeqsRVWn9q/8AW7/zEnZf15f5HovxAn0T+ymh0XS9NFt9oU2V7bajaPIIsHAMUUaTcjGfOLEFeuSSed8FzWNtqV/PqKWb+Xp1w8C3qI6GYLlMK3BOeg79MGucopR924N3t5HsGtS+Gri/vDoaeG01GP7QmnB1t1tiBMmC2792WMZfaZOD25C4oRnSBcXsulSeG4tYU2YuHuVgNqg2N9oaFZAYyd4T/VgnrsGDXn2jaLe6/qK2OmCBrl8bEmuY4N5JACqZGUFiSMKOT6VBf2M2m3slpctA0seNxt7iOZORnh0JU/geKUVy2X9f13De/wDX9eR6nc3Gj3XiS+u7Cbw9PDLrty+qyai0DF7UuChh8z5ipXf/AKn584/2a8pu/I+2z/ZM/Z/Mbys9dueP0qGihRtbyG5Xv/X9f8Meo3Nrpz+C9WawTQ5NPg0i1ktjFHA94sxlhEzuwBlU7mcYYgEMAoI6U/EWnaXbWer3Gm3GgvNea7DJpscM8DlLciU8jOI0yUBVsYx8wAxXCWuo3VlbXlvbS7Ir2IQzrtB3oHVwORx8yqeMdKq03q/67p/oJO0bf1tY9PubLR4/HWj3mqnQ2tZdPVZEsbqzEP2wQn76x7kQeZj5mQp6gjNV7zUdKh1y7uH0fR7WaHR5DGGurO8jmn8wbG2wIsIcDjaFyQOQcnPnFXNI02XWdastMtnjjmvJ0gjaUkKGZgBnAJxk+lHK3ovP8b/5/kHMlq/L8P8AhjufCmq6XqS6ne3+m6R/a/7hYoS1nZRPGAwkZRcRvCGJ2EgKp7r/ABA8VrskEuv3z2lpHZQNO5S2inEyRDP3VccMPQjg9qsWHhfVtVvLy20y2FybPd5sgkVEG3J4ZiASQrEDqQpwODUGl6NPq1vqM0EsMa6dam6lErEFkDquFwDzlx1xS0b5vL+vyHqvdZu+Frr7Z4f16wurWwlhttLknhdrGHzkfzE583b5n8R/irVm0zR20PUr+OfRz9o0axis4EmjM/2kGASkRjLq2VkySATuJGQTXIL4i1GPQ30iJ7eK0lAEvlWkSSSgNuAeUKHYZwcFiOB6Cs1WZHDoSrKcgg4INV9q/wDXX/MSdl/Xl/l+J7F4q02whIsLe30y1s01eCO4vBZ2G7TIQSux/LZpXBPJaZUPy4YfMRVbVG8Mrq2gTywaKJEmvVuohcWcyNGIgYvM+zxxx8sTjgntuyMDjPEWv61qGk27ahqmm3CamTczxWMEMUpdWZR9o8tFLNyWG4n72e9cvUWf9fJfoO6W39b/AOZ0un6zLrPirR3uLTw/BJDKqF7m0S3tJBuyDOqAKVGcEgA465rBvf8AkIXH+p/1rf6j/V9f4f8AZ9PaoKu6Vp39qX32b7ZaWf7t3828l8tPlUttzg8nGAO5IFV+lxFKiiimIKKKKACirt5p32Oxsbn7ZaT/AGyNn8qCXc8GGK7ZBj5ScZA9CDVKgAooooAKKKKACitbWdAfR7PT7sX1pfW+oRNJFJbeYMbWKsCHRSCCD2I96yaACiinxoZZVRcZZgBn3ppXdkGwyirusaZNoutXul3TRvPZzvBI0ZJUspIJGQDjj0qlUppq6G9HYKKKKYgooooAKK1vD+gP4ivJLSC+tLW4WJpI47jzP321SzBSqMAcKfvED3rJoAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHKQrglQwByVOcH24q7qmoW1/JG1ppFnpgQEFbR5mD+582Rz+WKoUUAb3gqSytvGWmXup6jBp9tZXMVy8kySNuCOpKqI0Y7iM4yAOOorW03xD/AMItpur22ja6v2q4v7SSO6sVlTfEolL7WZFZcFlB4BOSORmue8P6L/wkGsw6al/a2M1wyxwtdCTa7swVU+RGIJJ6kAcdakXwzqN3qM1roMMuuiEhWm022mkUkgnGGQMOjdQPunGRzTvb+vNMOjR65oesW8NzPqGi6gLP+1fEd02nbbia2jvT+7CJIkUMhdAXHyt5eNxwTk44C/8AGGq6Vodjpdjq00VzEbuPUoVYlZWeRsh8/LICCeuQMk8E1Q0CPxwLe7s/C6eIBCjlbqDThPtVyMYdU4BwMc+lZ0XhrXZ7Wa5h0XUZILcMZpUtHKxhSQxY4wMFTnPTB9Kz5Uvu/wAi+Z287/qzs9b8YWdz4FTTtLudMW2ayghbT5/tpnikXbvdFybYMWUtvADEMc8k5l1HxRpFxJoN1rGqrqZsr2AyadYSXLWawIPmPk3CKEfgDCMVIyML1PBPomrRaQmqyaZeJp0h2peNbuIWOcYD4weQR17Ut3oOsafZ293f6VfW1tdY8iaa2dElyMjaxGGyOeKvq35kdLeR0vxA8Sf24lpF/aGmaisMkjJNam+eVQcfK7XRJA4yFUkA59eeKq9qei6possces6beafJIu5Fu4GiLD1AYDIpukWcGoa1ZWd3dpZQXE6RSXLgFYVZgC5yQMDOeopRj0Q5S6s3PAM2nWXiIX+ratbadFDFKgE0cztIXidBt8uNuhIznHXjNc7dwpb3ckMNzFdIjYWeEMEf3AdVbH1ArS07QodS1Ke2Gs2FnFHKIo57tnAmJYhdqortzjOcbR3IyMuTw+sF5rdnq97HYXelROREwDefKsioYlORzyTxnhTxRdfF5Ds9jFrur/XLS8+HEWnXWur51tDGtrp+ny3SxsdwLefFInlFgNx3xsOeobORwtX30LVo9IXVZNLvV05zhbw27iFjnHD429eOtD1VmJaO503jC+ttT8M6Hu8Uwaxf2ELwzKRcmRg0hZcNJGAQqkDr9M1k+CtQs9L8TR3N/OLUCGZYboxlxbTGNhHLgAn5WIPAJGMgZFQ654el0Kz0x7oXcVzeQtLJb3NlJB5XzEAAtxICMHI45xWXb2095cx21pDJPPKwSOKJCzOx6AAck+1C6/MT6HqGu6hbT2tlb6v4j+0NqPhs266rdJM6ySLfF8n5Wk24jKglc9MgdorLxHpUPxAmu7XxUtppI0yGzkLx3CfbCtp5WCiI3CuM/N9RmuF1PSfEFmUt9Z0/UoDa2+9IruGRfJhL4yAw+VN7Hnpk+pqxofhW81XUJoLqC/tYoLY3EssenyzmNSheMsqjIVuMMeMHPSlZWfbX9S7v8v0/yR1nhPxPp/hzQZbCx1PSUvI715JZ7sX6w3sRVQoAgCl1BVgUmTHzcdWFYk3jW+svC+l2GialJbYS5W9toVKxuJHbCspGHXaxwDkDJ6GufsNE1bVYZ5tL0y8vYrcbpntrd5FiHJyxUHHQ9fSnW3h7Wr3T5L6z0i/uLONC73EVs7RoozklgMADB59jQ0r3Yk3ayO21vxhZ3PgVNO0u40xbZrKCFtPn+2meKRdu90XJtgxZS28AMQxzyTnzyGaW3njmt5HiljYOkiMVZWByCCOhFW30TVotITVZNMvE06Q7UvGt3ELHOMB8YPII69qgsHvE1C3bTGnW8Ei+QbckSB8/LtxznPTHNUvibJ+ykeiS648kPhK78T6nO0lxpeoQyXd2zzMolM0SO3ViuSOgPAOM4rQ0K80qIxtY6yZIdH8PGC41K3MtqYJHvM5jfy2kXiQAMIzkMQQuTji/FOja4J7CfWpdYvNXu7Z5Z4dQtJ1lhVC3G6Tl1CLuyOAM+lUNDi8TWupQN4bj1aG9uoWaE2CyrJNHk7iuzllypzjj5fap3/H9f82U3qvl+h6VJ4k/s3xZqGpaxrot7m6trJ7J2u78xTWmzqTCI5GkwAQHCKSzHAyDXO6r45/s4ao/g7VJbJ59fmu4vsyNFugIG3sPlJHKHrgZHFc7c+G/F+qazcLeaNrd5qe0S3AltZpJsHgM2QWwccE+lU7Dw5rmqNIumaNqF4Y2KuLe1eTYRjIOAcEZH50rK39d1/kF/wCvlb9TPkkaWV5HxudixwABk+w4Feia34ws7nwKmnaXc6Yts1lBC2nz/bTPFIu3e6Lk2wYspbeAGIY55Jz5yQQSCMEdQavPomrRaQmqyaZeJp0h2peNbuIWOcYD4weQR17VTS5bdBXalfqb3iT+y28IaFb2Ov2N7c6fHLHLDDFcKx3ys4ILxKpAB55HPTNVfBetRaDqV/dy3LW0radcR28iqSRMy/JjA4Oeh7HnIqvruh2mmabpN/p99Ndw6lC8gE9sIWjKOUIwHcEZHXI+lZllYXmpXIt9OtJ7ucjIigjLsfwHPemtG/n/AMET6fI9Y1rx5pOq3941lrxsr1/tCWOqNDMPsiGZGUAqhdAyBxlQSMnONxNUE8W6a0981n4kfTNSb7GJ9YSGVXvljRhMFKDeCzbW+bbv2jcQa4M+GNfW/hsm0PUhd3AZobc2knmSBc5KrjJxg5x0xRZ+GtavtXk0y20i/kvYT+/t47V2khGQCWQDIxkdaUIpWS/r+uvQbe7Z6G3jPSn1u6u9M8Rf2VB/bVxd3ieRLnVbdnBRcKpDfKGXZJtX5+vJx5bdyRTXs8lvH5cTyMyJ/dUngflWzqHg7VrfXdY0/S7K81SPSbh4Z7i3tXZVCkjc23O3O0nk1gVMUrK3YqTd3c9d1f4g6Ve6De6curSNDLFLGkIhcAg20CqMbQMeaspx/e+Y9Qamv/Gnh0/2VGNaW9isdcs7m3kc3s0sVqm7eXMxID/dysQCnjGcYHlb6Fq0ekLqsml3q6c5wt4bdxCxzjh8bevHWr2qeFrzTY9Kj8i+a+v4WlazlsJYmjwxAC7h+8BUBsrwM4qmtb+n4akra3r+Oh1Nr4zttTg0v/hINWd7pJNThknmjd/s8U9uI4ugPyBi3yrnaM4HSrFhrug6bqGlLa+Il83TtEe2S6X7ZbwNcG4dyrGILNs2uSCAMkLnHIrhbrwzr1lt+26JqNvu3Y820kTO1dzdR2Xk+g5qXQdDj1LXNPsdVlu9Pi1FlW3nS083eWfYCAzpld2QSCcYPBoSvZL+t/8ANjlLq/61udo2t+H734rT67/bdpaWQtFQySQXJM0rWvlsQAjt98kkucnrljXnF3ClvdyQw3MV0iNhZ4QwR/cB1VsfUCtCHw1q1/qd5ZaLp17qbWkjJIbS2eQgBiASFBxnFWfC3g7VfFOvQ6fa2d4IvtCQ3VzHatItruONz46YwepHQ1MbWTXYJNrfoYFFaCaDq02nz6hbaZeTWFuxWW7jt3MSEergYHUdT3rPqxNNbhRRRQIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigBysUcMMZByMjI/I1d1TWLnV5I3u4rOMxggfZLGG2B+oiRQfxzVKNQ8iqzrGGIBds4X3OMn8qu6vo15ol2sF6i4kQSQzRsHjnjPR0YcMpwfoQQcEEUAXPCN9pul+KbDUtYluo4LKeO4AtbdZWkZHDbcM6AAgHnJx6GrY1yw0/StU07S7i+livL21uFkkhWEskYkLKyrI38TqRyc7c8Vn+GtIttc1620+81AWCXEixrIITKzMzBQFUYGcnPJUYB5zgGhe232PULi23b/JlaPdjG7BxnH4UXs1/WzT/wAg6P8Arv8A8E9q0OdfEEUmsafZ3Ugu/EV3c2twuntdHTmcR4kl2zxrHgEH5/MU7ScDBz5fqmttFpuladYXcwm0prlGnhfajl5D8yEHOCvB4Fc9RU8qT0K5nbX+t/8AM7nWPG1tqHhzyLOeSyuZLGCyntV0e1KyLGEX/j6yJdp2K20g4IxnAzT5vGGiQ3+k6ssM+q6vZ3sM8l1NZR2ReJP4CI5HV2zghyobjkt0HB0VXW5PSx1Hi3xDBq0Fva6dfSzWkcskwhfRrawEbNgZ/cMd5IUAkgdBXL0UUkrDbb3Ok8H3/h/TLi4vNd+2fbI1BsDDaJcRxSZ/1jo0ibiOwzjPJBAwcXUZI5tTuJYbme7SSQv59zGEkkJOSzKGbBJ/2j9aq0U+txdLBXV3ut6LeeD0tLw3F/qsMMcVrK1glv8AZQCCy+akpMy4BA3pkZ4K8g8pRQ9VYFo7nU+INR0C78L6RY6ZealLdaakiEXFjHEkgeQuTuEzEYzjGDn2qj4T1i20TXftN8JvIkt5rdpLcAyReZGyb0BIBI3ZxkZ9RWJRR38/1A9K1TUNDsdM0m0lk1Aabf8Ah1rZLhYEaZSL55N5j3heTGfl38A9TjmpD4q8NN4+OtyvqsFnBYx2tvEtrHLI+LbyCWPmKBjrxnPtXAUUrXv8/wAb/wCZV7bf1t/kjvND8YaZo+jrp1td3Fs1nfPdWl8dDtbqSTcqDJSV/wB0wMY5RjnPsDWDf+JJZ9H0e3tZ7mK4sftBkkVtgLSuSSuD3U4PT06Vg0UW1uK+ljudY8bW2oeHPIs55LK5ksYLKe1XR7YrIsYRf+PrIl2nYrbSDgjGcDNcXb2095cx21pDJPPKwSOKJCzOx6AAck+1RUU+txdLHolxcr4Wj8LWniG3ubaWLTr2K7txGPPgWcyorFGI5w27aSMjHTINavhq70rW3lstItL/AFC10/w/9klt5bTzJ7om7DkpDFKrEfMDgSKVx1YDnyaila+/9b/5sd+3l+n+R6hqWqaVoHirUG1xWkvJ4rSSBv7Jgla1jVObZ4ZnYRPgIN252G3nkkVz3iPxhDqi6j/Zpu7drnXZdUjJIXarDCZweHBz06djXIUUrd/61T/RDv2/rS36jnd5ZGkkZndiWZmOSSe5NdvrHja21Dw55FnPJZXMljBZT2q6PalZFjCL/wAfWRLtOxW2kHBGM4Ga4ainZWsJOzudT4g1HQLvwvpFjpl5qUt1pqSIRcWMcSSB5C5O4TMRjOMYOfaqPhjWodDudQlnEx+06dcWqGLGQ0ibQTkjj1rEoprS/wDW4u3kemaz8Q9G1z+0rW4XUre21Ez7rlIkeWJWmSRAFLgMMJtZdw7YJxiqU3jHQr60uNOvf7UjtENn5M8SI01yLdGTbICwCht2RgvtwOGrgKKSXKkl0/TYZ6Nc+OdD1DWFv7j+1LT7DrM+p2kdtGh+0CR1YLIS48thsA3APwenHPn93P8Aar2e42BPNkZ9o6Lk5xUNFJRSt5f1+gXb/r+u51d7rei3ng9LS8Nxf6rDDHFaytYJb/ZQCCy+akpMy4BA3pkZ4K8g69j4p8NaVL4YntbrV5pdDaTcrWEcYkDuzEgic4ILYxjnrkV57RTauHSx6MPiDpUsNlBdR3/lx2yW0rBFYqv2FrdyoLc/M5YA4yO4Jqj/AMJD4aHiDwzKkuqpY6Fbopc2kbSzyLO0v3PNAVTu/vEjp83WuHop/a5uu/8AX3hvHl+R3OmeIPC2natqtzi7nNzOk1vcXGk20zIu5mkj8qSRkXOVxICSNvTkitSLx/4en8Qx6lfRapElpr0+qww28UZ89ZCpAclxtZdnYNkHGV615lRUqKSS7f8AA/yBu979f6/U7m28YaTHDp97L/aCahptjNZR2cUafZ5g/mfOz78r/rTuXY2dvUZ44aiinbW4Nt7hRRRTEFFFFABRRRQAUUUUAFFdzoPgnT9Z8NaTeme5F3dan5E8asu37OHiRmX5c7gZV65GO3FUZvAdyJJEjv7KKeRZprSwnd/PuIYy3zjCbBkI2AzKTt4HIym0t/6/r/MaV9jlKKVRlgD612fi7wQmmatqM2m3tibGHVPsRgiklke03ljGH+U7vlU/dLkYweeKfb+u3+Yji6K6PxT4J1PwlDaTaiVeK7LrGwgnhOUxuBSaNG/iHOMH14NUvDnh678TaobGxdI3WJ5nd1dwqqMn5Y1Z2+iqT+GTSTTVxtNGTRXUaF4E1DxHdXy6Rcw3NtZMivdw21zKjls7QESJpP4W5KADHJ5GbGm6FDaDxTo+uaZbvf6XaSypcCWTfFIjouBtcIV+Y9VJobsvlcEm387HH0V1um/DfXdU8M/23bRqIGiknjRoZjvRM7j5gjMS/dbh3UnHTlc5l54cbTtKiur7U7KC5nhSeLTz5rTvG/3WyqFBkfNguDjtyKfWwWuY8ZQSKZVZkyNwVsEjvg4OPyNaes69Nqwht4oUstOtsi2sYSdkeerEnlnOBlzyeBwAAJ9W8Nf2LIlvf6vp63wkVLizUTNJbZGSXIj2Hb3Csxzxg81p6z4VE3iW00/SEsreFtNiupLlLiV4fLEe552MiK6ggFioXI6AHik7W/r1/r/hwRjeG9TstG1621HULO4vBayLNFFBcrD86sGGSUfK8cgAHnqKg1q8s9Q1ee7061ntYpmLmKe4EzBicn5gicZ7Y/E1tR+BbiV2kj1jSzYCzN6NQMkohaNZBGwwY9+4Mw+Urk9s5GZLT4d6le+IbnR4bu3eaCGKdZIbe6nSWORQysPKhZgMMv3gvWjdr+v62DZP+v63/E5Kiu78M/D9m8WWlt4muLO1thq39nvbyyS7rt0YCRI/LU4xkDcSo+Yc9cZUPgq7uLZJBe2MFzcQyXFrp8rv508SbssuFKD7jYDMCdvA5GTmVrhyvY5milAyQK6fW/A1zoUU8lxq2mXAtb1bK7Fu8jfZnYMQWygyMI33dxGMEA8U9v6/ruI5eiux1Twmt34ssdJ0g6farNpqXIn+1StDIBCZGlLSIrLuCk7SuBnHSqx8DXIukA1XTWsWsDqH9oAzeSIRJ5eSvl+Znf8ALjZ79OaV/wCvv/yY7f16/wDDnL0V0eseDLvR/tBa+srpLd7ZGe3MmCbhGdMb0U/dXJ9Mjrzi9B8NtQlvZLSTVdKt5xqUulxRyyyZnnj25C4Q8HcMM2B64yMl/wCv69UFjjqKVlKsVbgg4Ndpc/C7VrfT5Ln+0NMldFJ+zRSSGViESTaBsxnZIh645xnPFPpcOtjiqK6mXwBqQl+z2N5YahdpdR2dxa20jb7aVyQFcsqqRkEFkLKCOvStC58D276BpY0vUNPvLmS6vPteoRPMIYooUiYlt6KcLuY5VTnIA3HApXQWd7f1/Whw1Fams6HJo/2WQXdrfWt5GZILq1L7HAYqww6qwIIIwVH5VPoPh1tWilvLm9tNPsLeWOKSe7Mm1nfO1FEasxJCsemAByRxVR1E9DEor0S5+Fmpav4k1tfD0Kw2Ftqk1naq0VxKGKt93ciOEABX5pCo568HHn0kbQyvHIMOjFWGehFQpJlOLQyiuoh0Sy/4QK/1COawvrpJrfLxy3CS2YfdlCjRhHzjkhjjbxnNRHwPqzXt5aQG3mntdTj0sojn95M5cKVyANv7s8nHUcVXW39dP80T0uc5RXZ3/wAMNc0++sbed4VS8MoWeWG4gWPyk3yFlliVyAvOVVgegyeKrzeAp4RFMNb0t7F7T7Y98PPEUUZcxruBiDks4IAVSe/A5pXQ7M5SitDWdHm0TUBbTywzq8aTRTwMTHLG4yrLkA4IPQgEdwKz6YgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigDotF8a6noJ0o2KW5/sueaaMSKxEnmhQ6vzyuEHTB9+mJj48v2iDSWGnvfRxyRQX7I/nQRyFiUUb9hA3uAWViN3B4GOXopNJ7jWmwoOCDXSJ461SPUbq9jitVmudVi1Vv3ZIWaMuVABP3f3h4OT05rmqKf9f19wjd13xRLren21iNNsdPtraaWdI7RZOXk27iS7sT9wd+PpgDP0u+i068E8+n22oAD5Yrl5VVTnhgY3Rsj64qlRQtNht33OpuPHl7f32ozatp9jqMGoNE8trcedsV412o4ZZBJuC5BJclsndk81X0fxVHoy6gsWgaXcLfq0Ugna5+SJiD5a7ZhxlRyct71z1FKy2C7N2TxN9p0ePT77R9Puvs6PFa3EhmEtsjMW2qVkAYBmJG8N17jim33iVtS0qG2v9LsZrqCBLeLUP3qzrGn3RhXEZwPlyUJx34BrEophc3tX8TjW50utQ0bTmvjIslxdp5yvdEDBDqJNg3dyiqc9CKu3Hj2ebULW7h0TS7Zre2+xskfnsk9vs2eU4eVuNvcYbvnNcpRSsrWA37vxddXFrNaQWVnZ2cln9jS2gV9sSGVZSVLMWLF0GSxbgkemLUfj29Hni60zTbyOZLVTHOkm1Wt49kbja4JOM5BypJ6Vy1FPYL/1/Xodlb/EvU4dSN/Lpul3VyuoSajA88Tn7NLIQX2AOBg7Rw27GMgg81Rg8bXsNjDH9hsZLu2he3ttQdHM0ET7sqPm2H77YLKSN3B4GObopcqtYLsUHBBrdu/Fl3fnURd2trJHqWopqFxHhwC67/lGGyFPmNnnPTBFYNFP+v6+4R1F744mu7y3uodF0yzmt7N7FWg885haJogpDyt0Vjg9c9c1reDPGMdq7Lf3dvp81npZs7CZzcIhJuPNPmPB+9Bwz4KYBwAeM54Gij+vz/zY7/1/Xodxq3jCys9cvG0qzstVt7v7PPcG7+0SRtdxqcyxmRxIVy7cSE5ycjGAM1/HepvrVvqbQWnnwarLqqqEbaZZChZSN33f3YwOvXmuZopJWBu452LuzHqxycV1c3xG1iaORRDaRmTf86I4ZS0UcWR83YQqR7k/QclRT6WBu7uzq3+IOoi7W7sbHT7C6a7S8uZreJ83UqEkFwzMAMliVQKCT06YD4/vFFrFaaVpdpZ2zTk2kMUhjmWZVWRHLOWIIX+9kdiMDHKUUrILvc09Y1uTV/s0YtbaytbSMx29rahtkYJLNy7MxJJJyzH8gBU+i+JptGsp7T7DZX9vNLHOI7xGYRypna42suSNx4OVPcGsWimtBHT3HjefUGvP7Z0jTdSS5vJb1Y5xMgt5JPv7DHIpwcLwxI4HvnmaSikklsO7Z1C3GnaV4FvrOLVbe+vdTmt38m3jlH2dYw5O9nRQTlgMLuHU56ZnuviPqk/z2tjp1hcNfx6jLc20T75bhAwDNvdhg7jlQAvoBk55Cin1v/XT/IOh2vhrxPpSeMrfULjT7DQljiuMTWhudhlaNghf53dVDHrFtYZ47Ys+IvGFomoLNafZNZkvbTydWR5LyS2nIfMe1p3E4ZQF53KMjA4zngaKVlp5Bd6m8fFU0mttqNxpum3AFsbWG0mgLQwR7Ni7VJzlR0JJOeTk1g0UUWAKKKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiu68OXWm6b4Bku71o4JpNSaJZv7EttQZgIlO398w2DJzxmqmmX93N8LfENnLdTPawXVo0UDOdkZZpNxVegz3xSbs2u1vxt/mNK6v/XU5Ciutv2ik+FWmm2a7jSPU5UkglljeNpPKQmRcRqy5GBtLMOK0DaQa34M0Sz0SDUFim1xrcWNxdxSbpGjjyyyCFSucgc7gMZp9Wu1vxt/mLon6/hf/ACOCorsfGnhfSdH0jTdS0O5kmhu5p4HVpnlUNFsyQ7QQk/fIxtI4+8egpeDtAsNbudQl1i6NvZ6faG5k2uyFvnVPvLHIVA35JCN0xxnISaauNpr+vkc3RXcDQfCEaanepd6hqdjb3FpBALSUREtMshcF5IgTtKcN5Y3Y6DORzXiTS49E8U6ppcMjSx2V3LAjuMFgrEAn34ovrb+un+aCxmUV3mk+DtKuNJtvtcWpTXt3pF1qi3FvMiQQLEJAqspjYtlo+TuXG4D3NZ/Blv8AZ9UmRrkJZ6RY3qSMRs82fychjt+7+8fA4Py9Tg0+vL/XVfowSur/ANdP80cZRXa+NPDXhrw9FcWen6s82r2dwIJYGMjeaOdz4aCMR4IGAHkzu68ZOR4S0ix1fULxdUNwLe1sZrsrbOqu5jXdtywIGemcHHXnpSi+bb+uoNWsjBor07Xvh/4e0dr67ifVLiz01ZhNb+fGJpmWZIwVbyyEUb8klW6dt3FMeDtIsGOpyQard2ztZC1sIpUSdXuELgO/lsCBtwMIN24fd6URalZ9H+uwnpc89or1PxB4Z0q68bXcuqR6jcS614gurKH7DIii1KyAZcMjeYTvB2gpwOvPHmV3B9lvZ7feH8qRk3Do2DjNKMrpPv8A1+pTjZvy/r9CGiu9u/Buk22haniLUnv9O021vXvPOQWztO0eECeXnAWQ4O/koTjtVTWvCFno9rr10y3rwaZraafFuYL5sZEhbLbcb8InIGBu6HIpt2/rzS/USTav/W1/yONor0XUdFt/EnjzSra4vLmOzk0WK5/furSJEluXEYaOIZ4XG4Rse+Gxg0f7A8IzapcPYajd3tjbaZJdyxW0p3LIrgBBLJBHkEEHPljGf4scjdr38/wv/kFr2+X42/zOIoruNH8P+FNTtdR1ea5vLLS7VreEQ3VyRIskisWzLFbyZUFCBmNc56gjDcnqsFlbavdQ6Vdm8sklZYLgoUMiZ4O08jii+tgtpcp0V2PhSSzfw34hgtlv7e9GlSPPMtxE0MyCVPk8sxFl6jkPnj3xRL4Nt1tNWnT7WUstIsr2N+Cpln8nKn5en7x8Dg/L1ODT62/rr/kCV/69P8zjqK9G1vwToNjPFpenG4utXl1GKzgjXVreTz1PDu0aRloDnA2ucjd32mn3XgPw+b7Q3s7y6ax1CW7hmMUxlKmBAxKO8EOeTjG0jj73pPMv6/rzBJv+vX/I82oroIIPD2o+INLg0+x1z7NM4S6tY3juLhju/wCWJCKGJGOCvB7msW6RIryaONZERZGVVmGHAB6MPX1pgQ0UUUxBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGnpniPXNFheHRtZ1DT4pG3OlpdPErHpkhSMmn2vinxBY6ebCy13UrezIYG3ivJEjIb73yg45yc+tZNFG4GsfFOvPpg0yXXNTfTtgjNobyTytg/h2Zxj2xVrUvEVs2k2Wm6BZXOnQWty92ZJrwTStMQoDBlRAoAUYAGcknPTHP0UAX9S1zVtZZTrGqXt+UJKm6uHl2kgAkbiewH5CobDUL3S7xLvTLuezuUztmt5WjdcjBwwII4qtRRsG5dutY1O+lmkvtRu7mSd0kleadnMjKCFZiTyQCQCemTVe4uJru5kuLqaSeeVi8ksjFmdjySSeSfeoqKBm/oPi3UNFhltTcXVxp7wTxiyNyyxK8sTR+Zt5GRuz059RVF/EGsy6WumyatfPYIuxbVrlzEq5BwEzjGQDjHUCs6ijcNjRvNf1jUNPhsdQ1a+urODHlW89y7xx4GBtUnAwOOKpwXVxas5tZ5ITIhjcxuV3IeCpx1B7imLtLjeSFzyQMkD6Vd1SLSYpIxo17eXaEHzDd2aW5U9sBZXz+lAh8fiPW4r5L2LWdQS6QuyzrdOHUv94hs5Ge/rSQ+INZt7q6ubfV7+K4vARcypcurTg9Q5By341u/DH+2f8AhYWlf2F9uz9pi+1fYt/+o8xd+/b/AAdM549avpC8Uet6j420m41PV4r+zt1XVZp0dFkWUksAysflRccjHHbgltUv63t+o1s32OUg8R63bC7FtrOoRC+JN15d06/aCc5L4PzdT1z1NZtew6V4G0SPUNXP9htqlvZ63cWzxGO8nkW3jA2rH9m4DnJGZSAcDB4auOnfQ9N8M6ZcT+HILmbUVuTJI11OjQ4kZU8sB8Arx94NnA9yYUk9uxXKzOs/FuoQ+H7/AEe7uLq8tbi1FvbxS3LFLX96khKocjnZjAx19qqXHibXbpIEuta1GZbdkaESXbsIimdpXJ4IycY6Zrs9b8OaDp/gVLm20fU7hnsoJY9Xgs3MBmbbuDzeeU2gl02+UrAgAnIJMuo+ENNMmgyT6U2gaXcXsFrcSX8Vxb3jbh8zfvHaJk4PzoFwSMqoxm/tW87fMn7P4/gcVd+K/EV/Lby32vancyWr+ZA815I5if8AvKSflPuKbJq2v67qSiW/1LUr24QWyhppJZJVJ4j6kkE/w+tdB8QNI03SktFs9A1PR7lpJFf7VYyW0UqDGCnmTzFiDnJDAYI47nkrG9uNN1G3vrKTyrm2lWaJ9oO11OQcHg8jvSi4sck0T2Gq6toF5I+l395ptzgxyNbzPC+M8qSpB6jp7VF5V/qkl1d7Lm8dAZ7mbDSFQTy7tz3I5Pc12nwu/t298V3LadbXNxDPDN9tlgtt5+aGTarOBlQzfw5AYgcHAxyK3GqaBNf2LLNZTTxG1u4ZYtr7NysVIYZXlV9DxS1vZ72DTptcvWGu2OmeH721stOuBqN9b/Zp7uW7DRiMuGOyIRggnaBku3fj0qDxHrP2GKwl1S8msIgAtnJcO0O0ENt2ZxjIBx7VmV3V/wCHIf8AhXEWp2mhtZGGGNri81CC5ikuGZgMwPvMMinPTarADI3YJqnp73oStfdJvFfj6/1TSmC2OrWceoXK3lu97qDTRQeWzY+yL5aCMAnGQWwFxkc1yV34k1y/uI577WdQuZo9xSSa6d2TcNpwScjIAB9QK6jxtoepW/hLw5fz6De6ZELeSOVGW4MULea20DzWbYWHzYBAOcgVh+CtKttY8TR2t5CboCGaWO0DlTdSJGzJFkc/MwA45PQYJzUpLXyv+H/AKbehjWt1cWV1Hc2U8lvcRMGjlico6MOhBHINOgtrzU7tktoZ7y4YNIyxoZHIALMxxzwASTXoepeDYrhFgtfDn2TV5tA+1rp1q8zstwLzYcIzs24RA5Qk4weARxb0fwq9l8R5tK07Qp5kXSo/tEttLcFrWV7PcxDxOB87kjDZU5wBQ3o/n+H/AAwKP9fd/n+Z5TRXpXhPwlpo0GWXXNA1bUr+O9eC8tLSwlmms0CqVyqzRmNmy+GdXX5enBBxJjoOleF9Lml0CO+l1BLnfPNcypIm12WMqFbaGHBOVYHA4HJLbV7CSurnIUV6PrfhzQdP8Cpc22j6ncM9lBLHq8Fm5gMzbd4efzym0Eum3ylYEAE5BJ88hdYp45HiSZVYExuSFcA9Dgg4PsQfen1a7B0THzWdzbwQTXFvNFFcKWhkdCqygHBKk9RkEcd6gr0j7BZ+Il8LoNOEQu9N1DyrKG5ndBKnm+UIxJIxBLhTtBwSenNWdN8BW0d7p9pfaQDqLaE13JaXH2hw0/2lkHmRwZl4TGVQZBA3AfNSv/X3/wCX5Bb+vu/zPLqK9YtPCel3XirWFTwyRZ2C2sLWQtLt5Q7rlpQj3ETpHkMdzngFPlGTWRqum6B4WGqPJocWqrb6/NYxi5uZUxAgBx+7Zfm9GOR1yDxhcyt/XdL9R8r/AK9G/wBDz6inyFGlcxKUQsSqlskDsM969E1vw5oOn+BUubbR9TuGeyglj1eCzcwGZtu4PN55TaCXTb5SsCACcgktuyuJK7scLqGj6npDRLqunXdiZk3xC5gaPevqNwGR7iqVdv4s0DWLDwH4XlvtJvraOGGdZXmtnRULTsVBJHBI5GeorL8F2Nhe6lftqlot5Fa6dcXSwtIyBnRcrkqQcZ64PT0601q35X/AO3nb8TnKUAswCgkk4AHevX9a8GaDDf3n9ieHxdXdr9oS20pZ5n+2FJkQsQH3sVVmbahHQHsc0YvCljFdXlxpvh5L/UITZ+bpL3EpTTzIjNMzbXVwEZQvzthNx3ZNKMlKz7g09bHmVxbzWlzJb3UMkE8TFJIpFKsjDggg8g+1RV7BqPhyzv8AxZqVyuhf22LnX7qHUp/OkUaZCJBh8owCZBdt8m5fk6cHPkt3HFDezx28nmRJIyo/95QeD+VTGV0vMbjZshor13V/CfhqHQb0WuixxXMUUoS5N1KSCltBNuwW253SsOmNvbPNTX/gHRrb+yo7rSGt5RrlnYzskU0MV3FJu3sjPPIXU7eHUR9Tx6U3Z29PxFur+v4HjlFejWuhaLrsGlzWWiJaSXUmp2yW0NxK/nPFbh4PvMSX3sB8uAxx8varFh4Ejg1DSoL3RmkuBoj3t7YtFNPPJJ9odAFhSaNt4XZldy4AYkZGKL/19/8Al+Q3Fr+vO35nn1ho+p6qs7aXp13ei3TfMbeBpPKX1baDgcHk1Sr1aw8JvZfGOW28PaZdyWcFkZHWOJnEBlsydpwz7csxABZvTJ615fd2lzYXclrfW8ttcRNtkhmQo6H0IPINJO7BqxDRRRVEhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRTl2hxvBK55AOCR9au6pNpMskZ0ayvLRAD5gu7xLgse2CsSY/WgBmm6RqWs3LW+j6fdX86rvMVrC0rBcgZwoJxkjn3pl/p97pd49pqdpPZ3MeN8NxEY3XIyMqQCOCDWz4Dh8zx1pE7z2tvDaXkNxNJdXUcCqiyKWOXYAnHYZJ9K0tNmg8OafrAuItFutR+32ixNN9nvQsTCUyFOWQj7gbrjI6EDDtr/AF3SDo32/r+vUztI8ZT6VptpZvpen34sbpruzkuhLugkbbkgJIqsMopwwYcenFYNxPLdXUtxcOXlmcu7H+Jick/nXsmkadosF3f3Wn2Wl3EEmv3KW0UkNlJHexLt2Qo9y67Vy33ot5+YZHC54i81uPSfD+nwR6bo8l5MLpdRjnsYnlVjIyqpON0RUHI27T07AAZ813/XkXay8v8Agv8Ar+mcbRXo+tz6DH4FSPStL0+4iayg23X9oWaXEU/y+Yxi8sXJO7eMF2TByOAMS6jHoUsmg3GrHS7CxS9giuNNs2s7hjFj55DPb/vNvABWQFuchmOcX1t52I6X8jzOrOn2FzqmpW9hYxiS5upVihQsF3OxwBkkAcnvXWfECezkS0jt9L0+2lWST/SbLULK481OMKVtY41UDkguu45PPGBx0E81rcR3FtK8M0TB45I2KsjA5BBHIIPelF31Y5K2xcs9B1bUdQmsdN0y7vbqDPmxWsLTMmDgkhQeM8ZplnpF9fpetawbhYQme5BZVMaBgpOCQTywGBk81v8AgrTRqV1c3V9q0FvbWbpctay6jFbSXsoJ2KplZV7tlznaCcAk4OTrepajJ4h1a4nnjinvpZDdLZzq0T7n3lQyEqy5wepHAo1WnW39f1/mGju+l/6/r/IyaKK7q/jtJ/hxEQdK06W3hj2xRvZXE18xYZbcn+kQsASSrZXjGV4Bb0VxLV2OSvNJvbCxsby7h8uC/jaS2fep8xVYqTgHI5BHOKpV2vjCx3eGdDu2fQvtccLx3i6dcWYcsZDs3Rwt8x2Y5wfc5rJ8FLYN4mj/ALT+y7RDMYBekCAziNvKEm75du/b97j14zSXXyuHYz9Q1efUrPTradI1TT7c28RQEFlMjPlsnrlz0xxim6VpN7rd99j0yHz5/LeTZvVflRSzHJIHABNeh6xplrcQW9vdf2DFqV54e3JLD9mtoHuBe87XULEG8tGXcDg4IBOeSytdMX4gTW1tL4bl0ldMhiuJJpLQRNL9kxmNpcHd5vUpg5+9Svv8/wBf1Kt+n6f5/geX0V6V4Tj0fTNBliurDStT1OO9dbyKfVLGJWh2rsCSTI4ZSd4JhZWBPJ+6RiTa7aaZ4X0uLT9O0eaS4S5F2s9rHPKAXYIC5G9CFOQVKnpyQBTb1shJaXZyFS28qQXMcssEdwiMGaGUsFceh2kHB9iD716Frc+gx+BUj0rS9PuImsoNt1/aFmlxFP8AL5jGHyxck7t4wXZMHI4Ax55DK0E8cqBC0bBgHQOpIOeVIII9iMGnfVoXRM3fE8+pXdlo9xd6dbabpz2zDToLViY9gkbcfmdnyX3ZLHP4YqpofiCXQ1vYvsdrfW1/AILi3ut4V1Dq45RlYEMo6GuwU2OpL4YudTt9KtpL/TtQjeT7LBaxNLiVIi21VQENswxxjg571o6PoulRT2sW/SZp7PQGa5uYRbXMUFw10QGfzWWF2CMF+dwORtJwuVt+P6/5fiV1Xy/T+vkec63rU+uXyXE8UMCRQpBDBACEhjQYVRuJJ+pJJJ5NZ1euxx2CeKtUur210i1RYrRbazkGmwJPEVO64VmjliPIyVi3Md+MnbisPVdV0jQBqj6Ba6JdEa/MsIntoroG1ABUKHB+Qn+Ic+hHNK9l/Xdf5/n1Cz/r0v8Ap+R59RT5HEkruEWMMxIRc4X2Ge1eia3PoMfgVI9K0vT7iJrKDbdf2hZpcRT/AC+Yxi8sXJO7eMF2TByOAMN7XEld2OJ1XQr/AEaK0lvkh8u8jMkEkFzHOrqDg8xswBB4weazq7LxRp7QeCfDo+2abM9nFMk8dvqVvM6F5mZflRyTwQcgcd8VQ8FzWNtqV/PqKWb+Xp1w8C3qI6GYLlMK3BOeg79MGmtW/mHbzsc5TkUu6ooyzHAHvXr2tS+Gri/vDoaeG01GP7QmnB1t1tiBMmC2792WMZfaZOD25C4oRnSBcXsulSeG4tYU2YuHuVgNqg2N9oaFZAYyd4T/AFYJ67Bg0otOzfX+v+H7A1vb+v66dzzfULC50vUriwv4/KubaVopY9wbaynBGRkHkdqrV65c3Gj3XiS+u7Cbw9PDLrty+qyai0DF7UuChh8z5ipXf/qfnzj/AGa8pu/I+2z/AGTP2fzG8rPXbnj9KmMm0rjaV3Yhq7eaTe2FjY3l3D5cF/G0ls+9T5iqxUnAORyCOcV1t/HaT/DiIg6Vp0tvDHtijeyuJr5iwy25P9IhYAklWyvGMrwDsQ2OntfeELvWj4ZKRCSPU0gubIKcs2zekTc/Lt+bHHc5qm7feJLS55bV7SNIu9c1KOw04QtcScIs1xHCGOcABpGAJJPAzk16Zc3PhvU4bCMp4fhnktgpMccEI86TT2yXIAC4nK9cBGHbmsmDTLK08VeDIra90YSWUMU+ozx30Cxqy3Ts26QsFZwhUcEkgDGRimvi5X/X/DCfw8y7XPP54ZLa4kgmXbJExR1znBBwRUunafc6rqVvYWEXm3VzIsUUe4LuYnAGSQB+NeheH7OxsvEOuz6jc6Pcv9oRo4HvLB0eN3YmQSzJKvygDKIN53e2DsaFJoOmeLFuNDu/D9tbQ+IpjdT3jwMyWoZfJ8kyZO0/P80fIOCSAAREZPlTfb/L/MqSs3b+tzx1lKsVbgg4NJXpFidGGj2rA6GdJayn/tL7R5JvftPz7dmf33Xytvl/J1z/ABV5vVJ62CSSegUUUUyQooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAHRxvLIscSs7uQqqoyWJ6ACllikhmeKZGjkRiro4wVI6gjsaSNQ8iqzrGGIBds4X3OMn8q6DxXrVpqslrDbb7yS0iEUmqXC7ZrvHTIH8I6Luy+OrYwqjBFK3s4H8I6hesmbiG+tYUfJ4R47gsMdOTGn5e5rKrbtf+RB1X/sJ2X/AKKuqxKSGbel+L9Z0ayjtLCeARQzGeHzrOGZoJDjLRs6FkPyrypHIBrGd3lkaSRmd2JZmY5JJ7k02in5i6WCiiigAooooAKKKKACiiigAooooAtXeo3V9b2kF1LvjsovJgXaBsTcz44HPzMx59aq0UUAFFFFABUtvO9rcxzxCNnjYMoljWRSR6qwIYexBFRUUAaGra3fa5cRS6jJGxhjEUSRQpDHGgJO1UQBVGSTwOpJpdI12/0OSdtOkiAuI/Kmjnt4545F3BsMkisp5UHpxis6igC5qmq3ms3xu9RlEsuxUG1FRUVRhVVVAVVAGAAABVOiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCz/Z19/wA+dx/36b/Cj+zr7/nzuP8Av03+FFFeh9Wh3Z5/1mfZB/Z19/z53H/fpv8ACj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/z53H/AH6b/Cj+zr7/AJ87j/v03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/Cj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/wA+dx/36b/Cj+zr7/nzuP8Av03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/AAo/s6+/587j/v03+FFFH1aHdh9Zn2RILTU1t3gW3uxC7K7RhG2syggEjoSAzYPbJ9aj/s6+/wCfO4/79N/hRRR9Wh5h9Zn5B/Z19/z53H/fpv8ACj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/z53H/AH6b/Cj+zr7/AJ87j/v03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/Cj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/wA+dx/36b/Cj+zr7/nzuP8Av03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/AAo/s6+/587j/v03+FFFH1aHdh9Zn2Qf2dff8+dx/wB+m/wo/s6+/wCfO4/79N/hRRR9Wh3YfWZ9kH9nX3/Pncf9+m/wo/s6+/587j/v03+FFFH1aHdh9Zn2Qf2dff8APncf9+m/wo/s6+/587j/AL9N/hRRR9Wh3YfWZ9kH9nX3/Pncf9+m/wAKP7Ovv+fO4/79N/hRRR9Wh3YfWZ9kH9nX3/Pncf8Afpv8KP7Ovv8AnzuP+/Tf4UUUfVod2H1mfZB/Z19/z53H/fpv8KP7Ovv+fO4/79N/hRRR9Wh3YfWZ9kH9nX3/AD53H/fpv8KP7Ovv+fO4/wC/Tf4UUUfVod2H1mfZB/Z19/z53H/fpv8ACj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/z53H/AH6b/Cj+zr7/AJ87j/v03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/Cj+zr7/nzuP+/Tf4UUUfVod2H1mfZB/Z19/wA+dx/36b/Cj+zr7/nzuP8Av03+FFFH1aHdh9Zn2Qf2dff8+dx/36b/AAo/s6+/587j/v03+FFFH1aHdh9Zn2Qf2dff8+dx/wB+m/wo/s6+/wCfO4/79N/hRRR9Wh3YfWZ9kH9nX3/Pncf9+m/wo/s6+/587j/v03+FFFH1aHdh9Zn2Qf2dff8APncf9+m/wo/s6+/587j/AL9N/hRRR9Wh3YfWZ9kH9nX3/Pncf9+m/wAKP7Ovv+fO4/79N/hRRR9Wh3YfWZ9kH9nX3/Pncf8Afpv8KP7Ovv8AnzuP+/Tf4UUUfVod2H1mfZB/Z19/z53H/fpv8KKKKPq0O7D6zPsj/9k=)

Ilustración 2 Primer problema en consola, al poner el numero 1 como entrada no se activaba el modo manual

El problema de la Ilustración 2 sucedió en la primera prueba. El problema residía en el código dentro de *main2()*, que estaba mal pensado.

![Texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBlZHJvIEdlbnRpbAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzgxAACSkgACAAAAAzgxAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjAzOjI3IDE5OjQzOjM3ADIwMjI6MDM6MjcgMTk6NDM6MzcAAABQAGUAZAByAG8AIABHAGUAbgB0AGkAbAAAAP/hCx9odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTAzLTI3VDE5OjQzOjM3LjgxMjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5QZWRybyBHZW50aWw8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgAbgGuAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8lsNFl1GzM1tIvmCQoY2GP4Sw59TggD1rVGg2ht7aylu/LnkujEsi2+SzGOM4PIwoJIzyeenWsS1vLy1sZvs03lxNLHvXAyWGSp6dsGlbWL5rhJ2n/eJObhW2LxIcZOMew46V3KVNdO36XCMqajqtSxDBF/wjl6ylGmjmjD74BleWA2vuzz3G30pZf3/AIXtm8qESrdtErpEqsV2AgEgZPJ75qvDrF3BZyWsfkeVIcuGto2LfUlc9zjnjtSHV7s6eLE+R5A6KLaMEH13bc5465zS5o2a8l+DQc0OnZ/1uW9W0GPS7dm+3xSzRuI5IQ8ec85KhXY4BH8QXtxWdZzx21yJJrSG7TGPKmLhT7/Iyn9aku9Tub5At0YnIIJkECB24xy4G4/iaqVEuVvTYibje8EdTqOl6fd+J9SsYYotKtdNErF4FklaRUYDkO55+hA9fUZk2k2hs7i70+/e4ghkgjHmW/lsTIHJyNxAIKdiQc9aqPqt7JeXd082ZrxWWdti/OGOTxjA/Cn6brN9pPmfYZUQSFSweJJBleVYBgcEZOCORmuWMKkYrXt/wely3OnJu67/APA8jfTwPGtxdJeatDbRxXklpFLIYkDlMZZg8qkL8w+7vPXjpnBWysP7Ju55tTVb6GZUhtFhZhOhzucSdBjA4PXNTDxLqm+4aSWGf7TMZ5FuLWKVTIerAOpCk+2O3pVeLWb+DRbrSYp9tjdypNNFsX5nTO05xkYyeAadONVX53fb/g/1+Qqjpu3Iu/8AwP6/Mo0UUVuYhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFlP+QXP/ANdo/wD0F6rVZT/kFz/9do//AEF6rUAFWtNtkvNVtLaUsEmnSNivUAsAcfnVWnRyPFIskTMjoQyspwVI6EGmrJ6id2tD1a4+GHh+4kitdNu9ShnkuPL824kjdcC6e3OFCglm2ZA3cEgZPWsSx8I6JrMNvf2Ueq2Vmkl0tzbXEqSzSiCHzT5bBFAJHykFTtPPPSuQl1rVJ0KzaleSKTkh52IJ3l/X++S31JPWpbjxJrt3qUGoXetahPe24xDcy3TtJF/usTkde1ZpO2+pba5r20PQbvw9pGs2+iy3n2rTNLsfDpu/JuLgtKVN3IozIkDHHz7twiPGBxncPP8AxDa6TaazJF4fvje2O1WWQhuCVBZcsiFsHI3bVz1wKT/hI9c/tKPUf7Z1D7dGGCXX2p/NQMSSA+cjJZifXJ9aqX1/eanePd6ldT3dzJjfNcSGR2wMDLHk8Cqtrf1/FsLq1v62R0PhvwtputaY1zfaz9hkEhQR77IZAA5/fXUTd/7uPf05qdBFcSRo29UYqG45APXgkfkSPeo6KfUnodBcmN/AVp5DXCKl+6vG7oyF/LUl1wgYcYGCT0q5q+iaJYJfvbpqEi6bfpbSiSdB5ysHPy4T5CCmMndnrgdKwjrurGw+wnVL02m3Z9nNw/l7fTbnGPaq8l5dTCUS3MziZxJKGkJ8xhnDH1PJ5Pqa5/ZzvvbX/L/g/edHtI2Wl9P8/wDgfcdZqOl6RqPxJtNHtLSazjub6GCVhKpXa5UfIoRdvB9TVWHVRqPxEguZ4poEF0kNrFbuqfZVVgsagMrDCjHBHPc8msN9Z1OT7MJNQupBaENbh5mYQkYxtBPGMDp6Vf1bWNQTxA+qW0Nzot3dxrLKIXaPeWALOvQhWPzY5HPHGKag1TUPX+v62IlNObl3/r/InisNOdtYvNV+2TfZ71IUWCRIy5cyZLEqQPuZ4Ht3yL48L6Rb6j9juf7Qnkl1eXT4jA6LtVdmHIKnJ+foMZ9Rjnm3vdV1a6EclzeXs87IArSNI0jDIUY5JIycfU1cPiTVINLfT0uryCV7mWW5kFwytMWVVKuO+Np656ms3TqaWf8AVl/wfvNVUptu6/rX/gfcXYPC8Ek1um+aRHsbq5kkjxgGJpQpHHCnYufr15FN1ZdGTwppMkGn3EdxNHKBL9pTG4SYO8CMFvYZGAR1rGh1fUrezNpBqF1FbHJMKTMEORg/KDjkU+K61aLRpY4J7xNMeQLKqO4hZyMgMB8uSF7+ntVezndOT2f+f+a+4n2kLWStf/gf5fia3isiwtdI0a1Ux20VjDdvxjzppo1kZz64DKg9Avuahv8AxjqOoy2zXEdvtt7oXSxqrBWYKigHnoFjAH1PNU9Q1g6lpNhbXUGbmxUwpchuWhzlUYY5Kktg56HHYVmVu4pu7RztJpen/DnQSeM9Ul1ey1FxCZ7LzTF8pxukZmZyM9cvn8BWlpGqQ3sepaxrnlKLW0t7G2xZJciNsgKRHI20nbG/U9yfauPRGkdUjUszHCqoySfSr9tqes6DLPb2l7fabJv2zRRSvCdw4wwBHI561lKlG1oqz/4JLV9jYid7jQtcurZfNe+uYLGFYrVITICS/Ecfyqf3acDPJ79aisEVPA2pyWbXSTyyxW9wvyNHMpLyYC7dw2iMMW3e2MVjw6tqVslylvqF1Et3n7QqTMomznO/B+bqevqabbajeWkEsFvdTRwT4E8KSsqSgdmAPIo9m7Nea/C3+Q7G/pSx/wDCIaiNNe6iuJ3t7WYu0ZinLsSECldy42Z3BucdBUmseHNN07RNRniivzJZXiWSXUsiiK4k+bzNsezIA2n+M9Rn0rK1HV7SbTv7P0mxksrVp/tEiy3HnMz4woB2rhQCcDk8nJPFQ3d7rWqWbXN/c395bI6o0s0jyIrYO0EnIBwWwPc1PLK/Ntr/AJf8H7xJMXw/pSaxqy288/2eBI3mml2k7URSzcAE9B6H6GtpdG8Mz3N1Lb3l29jZ2JnnaJ9+ZPMCqis8UZ53D+Dg85NcvbXU9lcpcWc8lvPGcpLE5VlPsRyKnutX1K+eVr3ULq4aZQshlmZy4ByAcnkA8itJwlKV07BZ3LPiCxtdP1KOKyWeON7eGYxzuHaMugbaWCrnqOwrV8N+GbXUV0430N5cPqd00EMdrKsflomN8jMUbIG7pgcAnPSuZnnmuZjLcyvLIQAXkYsTgYHJ9gBWnofiO+0RmWG4uTbEOTbJcMkZkK4VyvQkHaen8I5FKUZ+ztHcGm1ZGvb+FbK5u7PyvthtpILm9uHypMdsjOEPTgnZz7kYFQ6loeh6To5S6v3fVzbxyrFGzgBnCsFKGLaRtb7wk/DtWIusamlitkmo3a2ibtsAnYRruBBwucchmz9T61JNqWsyaPFb3F5fNppOyKJ5XMOVwcAE7eMjgdMip5Kl9ZaD1vcXw/p0Wq6/aWd07R28j5mdMZRACWIzxwATXWT+DdCe1Wa1n1CNY0WefzWRm2CAyuqqFHzAGPknA34wduTwsU0sD74JHjYqVLIxBwQQRx2IJB9jVhNX1KOeOaPULpJY2LpIs7BkYqFJBzwSABn0AFVUhOTvF2E073Ojbw1pZ0+LVtl/BaCzNxJZtKrzMTL5ce19gAVs5yUOAp65FX9f0aygit/tdrqHkWENvZxWEUq+d50waZgz7McbiOEyTgcVyEeuatDqEl/Fqd5HeSjbJcLcOJHHHBbOT0H5Cnx6rrdh/pEV9qFt9sQfvVmdPPVcqOc/MBgj2xis3TnfV/1/w19dxWdw8QafDpXiC9sbWVpYoJSis+Nw9jjjI6H3Fbuj+GNPlhtxqcV9LJNYy6hJJbSrGltCobbnKNuJKeq43Ac1yFa9h4jvrLSrrT2uLmW2lgaKKE3DCOEswLME6ZI3Dt941pOM+S0Xr/X/AA5TvdGk/haGKG7mk+0iKx0uK5uHBGFnlClEzjp84468Hmp7vS/7Th8NaVpstzHaXRZ1W4Cv5LSSlN2VUH5hHnaScYwCa5ybWNTuLRLW41G7lt408tIXnZkVeDtAJwB8q8ew9KadUvzbQW5vrkwWzb4IvObbE2c5UZwp9xS5JvVsVnbz/wCB/X3nRjRPDN1rFjaWGozvGzSNdyI7PsiRNxYb4YyGwG4ww9/WLT9K8Paq8s8Mt7Z2llC0l2bqQNvy6om1o42K5Lc5Rse/WsW51zVr2USXmqXtxIEaMPLcOxCsMMuSeh7jvTNMudRtr9Do011Ddyfu0No7LI2f4Rt5OfSl7OaXxA1oP1mLTYdTdNFmkmtQq4d2LfNgbsEqhIznkqv071q+CzbLraSlruO8hWSaGaBkCwBI2cswdW39OnH1rBubm4vLl57yaSedzl5JXLMx9yeTWla6xZ2OmyLZ6e8eoS27W0lybjchVj8xEe3IYr8ud2OvGelSi/Z8u42r6GlYeGY9QbT5bn7SfPtbi/vnjxiOFCwBHHBJQ9c9RVlfCNklnexSQ30l3aWkUj3IlVIRNKU2RbShJ++Odwzg8CuZXWNTSxWyTUbtbRN22ATsI13Ag4XOOQzZ+p9a1dT8VfbNBGl20V3HESm4XN806xqo4SJSBsXPOMseF54qJRq30en/AAf8ifeuak3hHTvJmigj1DzotSi01LqSRRHcSsxDlY9mQBtP8R6jPpWJq1voZna08PJqU9wtz5UbysjrOnIBVVUENnGBzn26VUm17V7mZJbjVb6WSNgyO9w7MpGcEEngjJx9TVKOWSGZJYXaORGDK6nBUjkEHsaqEJrWT/r+vzGky1q0VrBqs8NhHdxQRttCXigSqQPmDAcA5zVKnySvNK8sztJI7FndjksT1JPc0ytoppWZQUUUUwCiiigCyn/ILn/67R/+gvVarKf8guf/AK7R/wDoL1WoAKKKKALl3FpqW0TWN3dTTnHmpNarGq8dmEjFufUCjSrTULzUoY9HiuJLtWDx/ZlYupBzuG3kY657VTp8MMlxMkMEbSyyMFREUlmJ4AAHU0tUhPY9C18y3HibXX8UR313ZaTbj7LBcTSJubckauM9nwWJHUZ71Evhi3nlnm0/Q4rq5RbSNrETS+RbtJF5jyOd+8KOgJcAHOewrjL/AEfU9K8v+1NOu7LzM7PtEDR7sdcbgM9R+dT6TrZ0jDR6fZXE8cglhnnRi8LjoRhgD2OGDDI6da5VSah7j/r7/UmztodFq1voGjfbrn+xo7sNqclraxtPKsYjiVQ5yG3HJYY54/DFPTSNHh8Mf2n/AGJfXi3MMs3mRQvJHa/MyonnLKoUrgE70b9a4h3aSRnkYszEliepNNq/Yy5UuZ3KtrodhNoUUXg+K5bSvscm1BLc6lHPE7s7cGBgwjcbecFQQATz1D/F+j6Zotgba20e/ikWcRx39xbPGsqqDkhzKySbuCNqpxz7VxlFP2cr35uokmuoV0egnWvEPi21lt0kubjdFHJLHbK/kxjagbAXC7RjDcYxnOea5yrs+j39vfw2T2rtdTIjxwx4dmDgMvC55IIOOvNaSt8wkrqxqa/qeo2fj++1ILNaXqXbSxiePDoM/JlWH93HWufJJJJ6mrqaPqL6xHpRs5o7+R1jW3lXy23HoCGxjr3qm6GORkbGVJBwQR+YpU1GMUl2K6nV6Zokb+D5r19HPmqkkrXmoRTpAyAYURSIwXfnPDggnAz2MV1atL8O7a6srOSGJbt1uXjmkMbFUQKzgnaHJdsYAOM9eTXL1aXTrptKfUlizaRzLA0m4cOQSBjOegPOMVLg73cupKVmibQdOTV/EFjp80vlJczLGzjGQCe2e/Ye+K7RfDdpIunJd+G1srq4lupFs0lmM0kUUW5UZSxO9mI6BeBnGDXndW7rUJbqzs7Z1RY7ONkTaDlssWJOT1ycduAKKkJSejsDTvc6yx0K10zXPDWn6hYJJeXp3XAad18vdNtAOxgQ6hG4GMMec4xS6R4fW6vNXutZ0/UL67inUfY1ge4lHmbm3yKssb9gM7up5FcVFE88yRRDc8jBVGcZJOBUl7Zz6ffT2d4nlz28jRyJkHawOCMjg81Lpy25tf8Ag+vyCz7nSyromn6dPqEuhNMbjUnitra5mkQRRIAXB2sDnLgDk4I5JxzdTSNHh8Mf2n/Yl9eLcwyzeZFC8kdr8zKiecsqhSuATvRv1rhqKbpNr4mOwV2djbW2p6RotpHb/Yor/VRA6rcykTqioCzgtt3ZfAKgdxiuStLj7LeRT+VFN5bhjFMu5Hx2I9DWpfvf6ro6XsdlDa6XYv5CxwMdkbvljw7FyTjqSegHGAKqom7dP6/zE1dnR2vg+32x/b9Mmjubi4upobBZGExiijDLDtOSCxZeo3bRkdRmaXwxbkx/8SCI6lBp5uZNMtZZW3u03lqHBdmAVfmYAggnBIrhrC8SyuDJLZ294jIVaK5DFTnvlSGB9wRTtU1KbVb03E6xx4RY44ogQkaKMKqgknAA7kn1JNZeyqc3xf194Wbf9dzrtV03RtJOo3NxpEEhtobSJIIbiUwm4kQyMd28sVABHDc8dM5rjr+e2ub6SWytBZwNjbAJC4TgZwx5Izk8+tVqK1hTcd3caVjtbTRdMtfB8eoXGk32pPPbSSvcQ27tFA2WVV81ZQEIwCdyN19DVDWdOu08H6HJHA5skged5yMRmWSUjaG6FtqL8oyeCcYBrmasPZXEVhDevHi3nd4433D5mXG4Y68bh+dT7NqV3Lr/AJ6CStuXfDVnbX3iK1hv132gLSXChiMxopduRz91TXaSeHdBu0hS30hobgAP9niuJGkuHW3814VyT3eIcDOd2OwHm1FOpTlN3UrA073ud8vhu0n/AHi6H/xNbeyM02i28kpy7ShULKWMi4VtzKGB+70zVvU9FW4kItNFj1K40+G1tU0+CWRoYPMQyvISr7iu5iAd4HJJJrzarFxZXFrb2008eyO6jMkJ3A7lDFc46jlSOfSs3SlfWX9ff6+fmLld9y14gisYPEF7FpLBrNJSIir7xjuA3cZzg9xjrXaaTofh5NLsxqGlCacxRSTzNcSAHckkzcKR0iVT9SvbOfOaK0nTcoKKlbzKaud/N4YtbTR7vdpEbxpYwvb38s0m+4nlMYzGAwUovmY+6egycnFLNoeh3epzWFlpqW8UOrwWCXDTyM8hJfzB97G35eMDPI5riV066bSn1JYs2kcywNJuHDkEgYznoDzjFVahUpP7X9aef9XJ5Xbc7218H2+2P7fpk0dzcXF1NDYLIwmMUUYZYdpyQWLL1G7aMjqMzW+lJZ+ItI+zaVDaakmn3F69taPJITKBII0AZ3O4FBkDnOR2rz5EaR1RBlmOAPU1Jd2k1hezWl0myeCRo5F3A7WBwRkcHmh0pPRy/rbv5odri3drPZXT292hjmT76EjKnGcH0I7g8g8HmoKKsXllcWEyxXcflu8aShdwPyuoZTx0yCDjrXR5Mor0UUUwCiiigAooooAKKKKACiiigCyn/ILn/wCu0f8A6C9Vqsp/yC5/+u0f/oL1WoAKKKKALl3Lpr20S2NpdQzjHmvNdLIrcdlEalefUmmWFk+oXi28ckERbkvPOkSgf7zkD8M1FLDLAyiaN4yyh1DqRlSMg/QjvTrS2kvb2C1gx5k8ixpnpknA/nS2Wgnojs7+4sbXxN4gv7kadfRw2yx6fE00cySfMiRsNpIJCLuI/AjBqzDb2V/dSnTX0P8AtNvskJaVIREoaLMrxxEbHbfhcKpIxwMmudk8H3ker2Wnfa7NpbzzSjq7bFVGZS7Hb907GIwDxV3TbTXdJuJbCwvbJHS0GoszRK5hygICsyEpIQyj5cckc8Vx8seX3Za2/L/hmQ1bRf1sWtZ1bT9Me/m06w0ua4m1SRIhJbROIoIgAP3eMKHJPbscc805LrTIfDH2m103Tbia5hlkuQ91bKYpGZgFWKRDKAo2keWwz65zWBdeGLyBtXCz21w+kOBdLE5LbS20uoIGVDYUnqCw4xzVQaRcNoB1eNo5LdLj7PKqt88LEZUsPRsNg88qRxxnRUYuC17f8D+u5fLrodDNHax+D4klbTrJ1VFYRm1upLrc2S25cywkL1B44x8p4L/F82nwWBs9L0+wW2E4EFzDeW08hRQcHEaCUbgQT5hb061xlFV7LW7fW4lGwVu6Daza5q0j3msraBIT5s890qSSJjb5aF2UMSOMEgY61hUVrJXWg2rm3r2p3X9vpJAy2hs4o4Lb7NdLL5aKuF/eocMe5I7k9OlYtJRRGKirDOt0xbeLwfMZf7NtJdkkguJDa3Mk+RhY/KbMsRz0ZemckfxCrdeReeBrSVf7Ojube4kVwnlxzFNsYUED53yS7bjkDB5HSucoqPZ63v1ElY0NBgsrrxBYw6pKsVnJMomdm2gLnuewPTPbrXbmK1WHSxqkegi4nku50WGO3WJQkWIomlXCsC5PLMegBOQa84qee8nuYLeGZ90dshjiUKBtBYsenXljyeaVSm5vcTWtzr7QaZpWseG7JpNJuQf+QhcMkcqKWmwyksCpwq4DHI+YkdjSaFbadaS6m88en3V8sqCKE39skaRsGLFWmV4nwdq8ZI7GuKopOjdPX+r3DlOsl1m0sdOnu7fTdKN7d6k7CJ4o51t4kA+ULgrhixGQAPlO3HGLqXWmQ+GPtNrpum3E1zDLJch7q2UxSMzAKsUiGUBRtI8thn1zmuGoodFND5QrsrU2d5pnh46pDY2sU+qFDItuke2BBGCHbqwJY8sT061ydpdTWV5FdWr7JoXDo2AcEex4P0NTahqd1qckbXboRGuyNIokiRBknCogCjkk8DkmrnFyaE1c7G1stHiWNb2TRpb2e4urnyFnj8qNljBhiaQHaELNnAbb8u3rkC1d2trG0EU50N9Wh00TRs0UEFu8sk2M9Fjk2x8gHIOSRnvwVhqNxplwZrQxhmQoyyxJKrKexVwQfxHam319c6lePdXsnmTPjJwFAAGAABwAAAABwAKx9hLm3/r/AC+Ycrb/AK7nZarqGl2J1G4tY9IvrhIbS2gdLaIIzlC8syxBQDgjbyvcA+lcdf3h1C+kujb29uZMZjto/LjGABwo4GcZ49arUVrCmoDSsdraSaZY+D43trGwvZpLaQ3Lz3lsHWQllA8qRDLwNpHlsM/WszV4Y38L6O0F3amK3t2Lx/aFMhmeViR5YO4fKF5IAwvXJAPO0UlSs7363/P/ADElY1fDRs18RWsmpCJrWEtNKk2NsgRS2znruxjHcmu0kufD96kMT2+iJcIA0aoscUckyW+7DuCMIZHC8kKfLOeSa82ooqUud3uDjrc75Rp8/wB46G+u21kf+eEVq0jSjHpC7JGT6gk/xbanv5bO7nmbTbrQ5763jtbZJbkQpAsfllpZI43AQ/OcEBSRzgAmvOqKj2Hn/X+XkHLrc0vEE1jceIL2XSUVLNpSYgi7Vx6hewJyQOwOK29MW3i8HzGX+zbSXZJILiQ2tzJPkYWPymzLEc9GXpnJH8Q5KitHTvFRuO2x1lvDZ6p4b0kSyaVbSR35imYmOKRYj5ajcOGcEl2LHIGDyOldBJqHhrUPJja20e0imnhyY4YwyK1wxAJ6gLHHhj/0054ArzOiolR5nv1J5dLHdW9vpVpe6QL2fSxNcaw1xci3lRltol2lY96/KFO49DtGPUHFLTbNBqmqTXtzpU+qGHzoFuLmN4RI8g3EsT5bsFJbblhz3IIrkqKapPuVb+vnf9T0S4XTJbm5k0650A3cK2sJuJooEhCGMtLKkRUK538YClgBjGTUtxc6ZPrE1/ay6K0J1GRbyS8ETlbaPaqLFG2chlB5jUnOBkAV5tRU/V9d/wCtCeUmumhe8ma1QxwNIxjQnJVc8D8qhooroSsrGgUUUUxBRRRQAUUUUAFFFFAFlP8AkFz/APXaP/0F6rVZT/kFz/8AXaP/ANBeq1ABS0lFAG5quo2Y0eDSbVjf/Z2LC9lXbszyUiHBCZyfmzk8hUOc4daFzpE8As0WK4a5uVLeQ1s6sDnAAz97I5yKl1jRW0ZYVn+0iZ1BbzLbZHyoJCtn5iM4PApqk4Jv+rlqnJLbYyqKuafpOo6tI0elafdXrqMsttC0hH1Cg+hqzF4X8QT6g1hDoWpSXixiVrdLOQyBD0YrjODkc9OaRBp+BwYLrVdRnB+wWumXK3JP3W8yNo40+pdlx9Ce1Hh8G18GeJry6BFpcQRWcQPSS4MqSDHuqI5PpketR+FfC+t+KNUj0e0h1AWbXca3ckVu8kdsxJXfIowAQN3UjvzVD+ydcudHe5istQuNKspHBnWF2ghY43fNjapPy5/Ck7PXy/r8xq/4/wBfkZVFFamqaQmnaZpF2l15x1K2acx+Xt8rErx4zn5vuE5460xGXRRWhoukSa3qkVjDcW1s0hCiS5k2rkkADgEkkkDABPfoCQpSUVdgZ9FS3Vu1pdzW8hBeGRo2K9CQccU+3sbu7SR7S1mnWMZdooywT646U17yuh8rvYr0VZi06+nt2ngs7iSFQWaRImKgDqSQMdjUEcbyyLHErO7kKqqMliegAp2YNNK7G0Vp3fhvXLC1+032i6hbQZUebNaui5b7vJGOcHHrSXXhzW7G+t7K+0bULa6uSBBBNaukkuTgbVIy3PHFIRm0V0mqeCNY0640myWwvptS1G0NybAWbiaLEjrt2cseE3ZwOD+NYN3aXNhdyWt9by21xE22SGZCjofQg8g0rjsQ0VqaTpCalY6tcPdeQdOtBchPL3eb+9SPbnPH+sBzz0rLpi6XCiiti+8OS2ej/wBpRX9lewpMsE4tXdjBIylgpJUBs7W5QsOOvSolOMWk+o0m9jHoqe7srqwlWO+tpraR0WRVmjKFlYZVgD2I5B71BViCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigCyn/ACC5/wDrtH/6C9Vq6tf+PGX/AK6J/JqhpXGc1S10lFFwKGoXOnzaVZwWs100tsrL+8gVVbcxPUOcY+lVtWvI7/UnuIQyoyIoDDnhAp/UVvXn/H9P/wBdG/nUNU5tlyk3p/WhY8C+K7TwvNcteJcsJp7ST9wAfliuElYHJHULx746da077xlouuaT/ZmpSapZx/uZTdW8CSyPJGZMqymRcriTIbdkEHg5rEq5ZaXd6hHLJaohjhKiR5JUjVd2cZLEDnB/yazlJJe90JinfTqbdt8QtCudZtNR1WDU4DY6y+pRwWypILgMIx+8ZmXDDy852ndkj5etZ0Pji2TwvbWsE8mn39nbT2yFNHtbnzlkZ2/17kSRZEjKQu4dx1IqOLw/qU0kiCBEMUvkv5syR4f+7liMn+dCaZjRbq7mR/MilVF2yx4Tkg70zvHTjjHWs3Up2tft/kaKE+39K7/zOIrdfXI7f+wJrJ7qS40uIhkmby0VvOeQCNoir7fmzksGyTggYrZfQdRjsxcvCgiMaS/65NwRsBW25yFyQM4xWlFoU2l6pZO89vKssQchJ42YFkPAUMSR/tdDU1cTCnByTva7+aRhWU6VGdTl2TZzfifxrqHiq3ghv49iwMWX/TbufkjHSeaQD8ADVDw3c2Fj4gtL3VJbmOG1lSYfZoFlZ2VgduGdQAcHnJ+lekeL9PtrBrOyuJnV1lT7Y/URkgkgADPyg89ec1lWuhaZrOqR2mj3kyr5cjySTLu2nzCsa4wvJBTJ9W/CuejiVWouUly7p9dvkc2GxLxFPnkrdLf1Y4bW5bK41i5n02WeWCaQyA3EKxMCSSRgMw49c/gKt6fqlpFaWiXTXMb2VwZ4xAoIlzjgkkbT8uM4PB6V0P8Awj128Fu8OCZIfOl81liSEF2RQXYgZO3I6de9Z91azWN3JbXUZjmiba6nsf6/Wu6jUUPdi9v0O3n95sxrvVWmt7VYGkheFpWO04ALtnjHtxVfTblLPVbS5lDFIZ0kYL1IDAnH5V2sPhy4uvD9vf2q75JZJQVeVEG1AD8oYgs33uBnp0qsug6g1ibvyo1jERmw88auY/7wQtuI9CBzQq0U99iZy9p8T3/4Y3W+KunpdR3C2t7O0c7TBJdoBzeyT5zuOG2OvOD8w9BmsrTvF2haMsFhaS6td2Ze7eW8mhSOaEzw+VmNBIwJH3iS43dOMZrHVWdgqAszHAAGSTV6fRL63uI4HWFppGKiOK4jkZSOu4KxK477sdD6VPuxXK+txuT5ubqX7bxtoVk1vZWsd4bOPRzpzXNzYwTuH+0GYP5DsY2U8DaTkZ4JK5PJeJNVOsa09z9re7RY0iikezjtTsVQoXyoyVUADAAPQV09noEn9s2drqJVYJwZGkt5klHlrksQylhkBTVCz0+e/dxbBAqDLPLKsaL6ZZiACfTPNHPFu9/6bf8AwRc2lv6/rQxdJv7ezsdWiuJLpHu7QQxCBUKu3mo+H3chfkz8vOQO2a2dN+IeqaZ4dXRoIswLG8Yb+0L5OGzn5EnWPv024PcHmrKaDqDzTxmKOL7O/lyPNPHGgb03swUnuADyOelNi0a9mt2nCwpErFRJLcxxq5HXYWYb8f7Oeo9abqQa1Yk7bf1/VjjBjIzwO+K6XX9R0GXRYLDw9cahHDCQ5t7izRfOkxhpHkErEnsBtAA46kk6M2mC10FLu4jkE00wETLIjJs25IYA7lblSM44NK/h3VI0RmthlnSMoJULoz/dDpncmf8AaArOXJOSbezGpJanOeIL21v76GSxudSuY0tYo2bUpA8isqgMqkfwA8KOwrKruZvDeqwSxRPa5llkMaxpIjsGAyQwBJUgc/NjihvDupLJEgjhk81GdXjuYnQKv3mZ1YqoHqSKv2sO6FdHDUV6Dd+GriI28VuFaUWyzXUjXEYhjLMdoEmdvK7e5yScVk3VrNY3cltdRmOaJtrqex/r9acakZbMFZnKUV29v4f1K6sku4bdfIkDFGeVE37c7goJBYjB4HNE2mC10FLu4jkE00wETLIjJs25IYA7lblSM44NHtI3tcLo4iiu5uvDeq2ce64tdp3qnliRGky33fkB3c9jjBpX8NaojRr5MLNJIYgqXMTEOBkqQGO0gDnOMUe1h3QXRwtFdraaFqN8kb2lsZFkV3U71HyqQGPJ4AJHJ/oar3tjPp9wIbpUDlQ4KSK6spGQQykg/gafPFu1w0ZyVFdxYeHNU1Oz+1WdsHgyw3tKiD5cZ+8R0yCT6fQ0o8N6qfM/0ZQ0bOuxpkDOU+/sUnL4wfu5pe1gnZtBdHDUV32n+HppbeS7v18q1S1e4AEyLIwCnYQhO7aWwM4xVa60PULO0NzcwBEUqHXzULx7hld6A7lz/tAUe1he1wumcVRXVWtrPe3SW9rE0s0hwqKOTWtP4cmhsrMKY3u7hpHJS5iaFYl2gMXB2j5twJJ7CiVSMXZhdHn9Fdbe2U+n3Hk3SqH2hgUkV1YEZBDKSCPoauaHpJ1K8UyxyNaq370RSxpIwxkhA5AZsDOBmm5xUeboD0VzhqK7KPSru4e3+zQllumcQbnUFtvXPPGPelGjXpsGvPLj8pU8wqZkEmzON3l53Y564xR7SPcNNjjKK7iTw7qcNuZXt14KBohMhlUv90GMHeCfQior7R73TYlku40CM5j3RzJJtcdVbaTtbnocGkqkXswumcZRXX6alnJqES6nLJFa5JkaP72MHgcHknA6d67Pwtp2m3zmxsZ5i0qARSNjDXGxSVIwPlJyo98HkVz4rFPDw5lG5y4rEPDw5kr7Ltv5njtFeseNgR4e8PgjBH2nIP8AvrXGVtRq+1pRqWtdXN6U/aU4z2uk/vVzmqK6Witbmg5LiH7BKfOj/wBan8Q9GqD7TB/z2j/77FWvBPw+1Xx5PPFo9xZwtC6IxunZQSyuwxtVu0Z/Sr2gfCjXPEWn6zeWV1p8cejTSQ3AmkcFigyduEORx3xSdluC1Mf7TB/z2j/77FH2mD/ntH/32K3NK+EWvav4dj1q2u9OW2kiaULJLIHwsZc8BCM4Hr1rOuvh7qtp8O7bxnLcWZ065kEaRK7+cDuK8jbt6qf4qfWwbkd7cQi/uAZo/wDWt/EPWoPtMH/PaP8A77FL4k0jS7DSdFvtGe8dL+GVnN2VBJSQpkKo+UHGduWx6muepKzA6D7TB/z2j/77Fa+mahpcWiXyX7iYNPAViiuVjZsCTJyQ2QM88dxzXEV0fg/w7JrtzeSiG3uIbK3aWWKaZ4t2VIBBVTyDzjvioqpcjbNKV+dJGhqHiKPUYplkMKNLcmfKyDC/LtC49vXNLZ61pVvpFzZzQySPcFS0iXiqAVJK4XYfXnnn2rO8PeCdS8S2Et3YzWsccW/cJnYE7ApPRT/fH60WfgnUr3wvNrsU1qLWGEzMjO28gMy8DbjOUPf0rNqkly9rd/kWnVbUu9+3z/M0W8RQMtyMRjz7OK1/1o+XZs+bp32dPerNprunT3Vg022K4t4xEZjcqIyqqcfLtyD0Gd34VzMfhy7llkjWSDMdtDcnLH7shQKOnX94M/jW74u+HN54W0uLUHuIJIcJHKoclvNIOcfKBt4471nVjSa9nezen4GdSnUr0Zw6NNPbZnQePdW0vUXW9sdQtZRduJmjSdWaJsEMpGc9eh7giuZsdaisLa5SJ082bZiQSgbArBunfJC9+1VPEOnadoXiK10p4XdLNYvt0ysS07MA77RkAABto6E4yevF/SNL0DxVr8VlYWtxYQrDK8pV8sXMhEYG4t8qhkHYnB+tTTpQwtPk3Wr/AFOKjRjQhyb31+81L/xnp2qS3AvrEG3kljljhhvAmwopXBJU5U5JwMEZ61hX+rLqN/Nd3E0IklbcQrAAegHPQDijSvBU+vXWmWOlzRpd3dm91I1y5EYAlZABtUnoo/OptO+G2sam10tvc2Km1umtX3yOMsrqpIwvTLj9a2j7KG39dP0N7pFmPxPBF9l2qg+y2UltH+/HDPvzJ0/2zx7Dmp7vxZYz2d0sVpHFc3dvFBLMbncFCbOEXA2g7OQSe3PY11+H11ceHbuS3a1F1pkly95K8j/OkeAFQYweVc846is+38Bapc+FZtfjntBawweeyM7byuSMAbcZ4Pel+5fvf597/mCtcZBd2kdxG80gaNWBYRzBGI9mwcH3wa3/APhM7ZNTt7qKNt0UckbzPdqbmTeuM+cqjkDoSCR7jgc9qfgrUdK8JWXiK4mtWtL1lWNEdjINwJGQVA/hPesO0tnvL2C1iKh55FjUt0BJwM/nWjjCpq/QejVzth4otf7Ze8me6uo3t3t2FzfiSUBlKnEhTA69Np707TvFdppsd1Bb/aLaGaRHU2eoeTKNoIwz7SGznJ4HPTA4pmrfDm70y80bQXe0Oq6hLK32hZXMYQBdqn5eOQxzt7isyTwsdD8Qatput+VcSWFjJMfIdtpcoNhB4PBdT+Hesv3Mo/L8n/mLR/18i8Ne0+bT3tNQSWcC4eeKRLxVYM4AO8lDv+6OeO/rwyTWtOudJt7a6jYz2sbRwyx3SqmCxb5kKnJyx6Edq4yuo8PeGZLvw5qfiK4t7e7sbJHiaF7h4pA5UbXG1SDgsDgkZrWUYRVx6aFyLX7OPRYbMxI00Fw08cpnG3J2ZymOeEx17nitAeMbCHUGurS0VPOuxdXIlug5kZSWVQdo2qCc9CenNckPDl22zEkPz6e2oD5j/qxnI6fe+U8dPetG88A6pZeC4vE0s9mbKREcRq7eZhjgcbcd/WplGlfX9f66C916GnY+Kra1hSKdFmU/aPPYXAV5DKgUkHB2kAe+cn1qdvFumyRG1eyVbL7KLYRRXYVxiXzN28qep6jHPbHSsvWvhxq+hWunXF3c2TpqE6QRCKRyVZhkFsqOPpmrurfDm70y80bQXe0Oq6hLK32hZXMYQBdqn5eOQxzt7ioaotr/AIPQV47k9x4u06+Esd7ZIbdnheOGC72bPLj2BSSpyuO3B96xr/Vl1G/mu7iaESStuIVgAPQDnoBxSx/D3VZfFV1oC3FmLq12b3LvsO/GMHbn+IdqxNb0ifQdaudMvHjea2fY7RElScZ4yAe/pWkI00/dKVlojqY/E0Ea2oVY8WtnLbIPPH3pN+ZOnX5+nsOaij1yw/sSGwmhWR4Z2mWQXAVTu2Agrjk4TAOe/SsfStN0280LVbm4e6N3Z2/moibVjGZEQZJyWzvzj5cY6nPFP+yZ/wDhH/7Y3x/Z/tX2Xbk7923dnGMYx70JQbfk/wCvzBWZ29h4rjl1x5v9GWS51BLotPdBVAUNtj3Y4+9w3QYHHFT3mvaTpP8AZ9rbJC8cUc7TxxXySsGlXZnzQCpYKAchcDOOuTXmVdBe6h4b862bTtGkKJdB5kmlZfNhCoNmQ5wWIckjpkY44qXRhzpd/wDhhWVzdufFlo9k1rZ28dtH9k+yJi43FV83ezHjktwD0/LgZupatb392JVMcSLFHEqeaGwEQL198Z/GsvxTpEeheJrzT7eRpII2V4Wf73luodd3+1tYA44zmsitIU4rVFWSeh3lh4st7Kzt7byo3SJdr/vwN+ZRI3bjIRV78D3xUknjC2lMd08KHUooXiSf7SPLG5mJbZjO75zzuxnnFef0UnRg3ewrI9Cl8YWRineCzjS7uIYYpJXuQygRlOFXAwp2DIJPbB9a2p+JbK7ju1soRbG+n865aS5EpY5JCrwMLkk9z054rhqKFRggSSOu0nWbXTbx5Zdk8ckMkLqswRsOpUlWwcHn0Na8PjW1t5FW1ie1t0tPsqC2vvLlUeYX3CTb1J68YPPToPOqKcqUJu7CyZ1N/qcN7fS3BuXfzDnNxcCWQ8d2wM/lWnpL2unRPqk9/ZFfssqxItyhk8xlKAFM7hjO7JGMDr0rg6KbhePKthnfWviuwtrKBRaI91Bay2yTG5AVQ+/5woGQ3z9SSMDoOokuvFsWo29vbtcTxFfKQxyahutfkwM+Vt4HGfvetee0VPsYX5uouVHq+o+JNP0po7i2W0N1cah9suI01BLncFzj504Ay7YHJGMnPFc7Nr2mtHbWsFuFsIpvOlikugzzE4By4AwMDAwOMk81xVFKFCMQsjpbm9s5buWS38uCFnJSLzd2xc8Lk8nHrXXeAtV0uxn+2ahqNrAlnKbjY8yq0pAG1VGcnLY+gye1eWUVNfDqtBRva36GGJoLEQ5Jd7/cen+MtZsL7RtF8m/tZpVa4aVY5lJQs6kZAPGa5D7TB/z2j/77Fc/RV0aSpU4010VjanHkhGG9kl9x0H2mD/ntH/32KPtMH/PaP/vsVz9Fa2LP/9k=)

Ilustración 3

![Texto

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBlZHJvIEdlbnRpbAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzk2AACSkgACAAAAAzk2AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIyOjAzOjI3IDE5OjQ1OjM3ADIwMjI6MDM6MjcgMTk6NDU6MzcAAABQAGUAZAByAG8AIABHAGUAbgB0AGkAbAAAAP/hCx9odHRwOi8vbnMuYWRvYmUuY29tL3hhcC8xLjAvADw/eHBhY2tldCBiZWdpbj0n77u/JyBpZD0nVzVNME1wQ2VoaUh6cmVTek5UY3prYzlkJz8+DQo8eDp4bXBtZXRhIHhtbG5zOng9ImFkb2JlOm5zOm1ldGEvIj48cmRmOlJERiB4bWxuczpyZGY9Imh0dHA6Ly93d3cudzMub3JnLzE5OTkvMDIvMjItcmRmLXN5bnRheC1ucyMiPjxyZGY6RGVzY3JpcHRpb24gcmRmOmFib3V0PSJ1dWlkOmZhZjViZGQ1LWJhM2QtMTFkYS1hZDMxLWQzM2Q3NTE4MmYxYiIgeG1sbnM6ZGM9Imh0dHA6Ly9wdXJsLm9yZy9kYy9lbGVtZW50cy8xLjEvIi8+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczp4bXA9Imh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8iPjx4bXA6Q3JlYXRlRGF0ZT4yMDIyLTAzLTI3VDE5OjQ1OjM3Ljk1NjwveG1wOkNyZWF0ZURhdGU+PC9yZGY6RGVzY3JpcHRpb24+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iPjxkYzpjcmVhdG9yPjxyZGY6U2VxIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpsaT5QZWRybyBHZW50aWw8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgAjQGuAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8lsNFl1GzM1tIvmCQoY2GP4Sw59TggD1rVGg2ht7aylu/LnkujEsi2+SzGOM4PIwoJIzyeenWsS1vLy1sZvs03lxNLHvXAyWGSp6dsGlbWL5rhJ2n/eJObhW2LxIcZOMew46V3KVNdO36XCMqajqtSxDBF/wjl6ylGmjmjD74BleWA2vuzz3G30pZf3/AIXtm8qESrdtErpEqsV2AgEgZPJ75qvDrF3BZyWsfkeVIcuGto2LfUlc9zjnjtSHV7s6eLE+R5A6KLaMEH13bc5465zS5o2a8l+DQc0OnZ/1uW9W0GPS7dm+3xSzRuI5IQ8ec85KhXY4BH8QXtxWdZzx21yJJrSG7TGPKmLhT7/Iyn9aku9Tub5At0YnIIJkECB24xy4G4/iaqVEuVvTYibje8EdTqOl6fd+J9SsYYotKtdNErF4FklaRUYDkO55+hA9fUZk2k2hs7i70+/e4ghkgjHmW/lsTIHJyNxAIKdiQc9aqPqt7JeXd082ZrxWWdti/OGOTxjA/Cn6brN9pPmfYZUQSFSweJJBleVYBgcEZOCORmuWMKkYrXt/wely3OnJu67/APA8jfTwPGtxdJeatDbRxXklpFLIYkDlMZZg8qkL8w+7vPXjpnBWysP7Ju55tTVb6GZUhtFhZhOhzucSdBjA4PXNTDxLqm+4aSWGf7TMZ5FuLWKVTIerAOpCk+2O3pVeLWb+DRbrSYp9tjdypNNFsX5nTO05xkYyeAadONVX53fb/g/1+Qqjpu3Iu/8AwP6/Mo0UUVuYhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFlP+QXP/ANdo/wD0F6rVZT/kFz/9do//AEF6rUAFWtNtkvNVtLaUsEmnSNivUAsAcfnVWnRyPFIskTMjoQyspwVI6EGmrJ6id2tD1a4+GHh+4kitdNu9ShnkuPL824kjdcC6e3OFCglm2ZA3cEgZPWsSx8I6JrMNvf2Ueq2Vmkl0tzbXEqSzSiCHzT5bBFAJHykFTtPPPSuQl1rVJ0KzaleSKTkh52IJ3l/X++S31JPWpbjxJrt3qUGoXetahPe24xDcy3TtJF/usTkde1ZpO2+pba5r20PQbvw9pGs2+iy3n2rTNLsfDpu/JuLgtKVN3IozIkDHHz7twiPGBxncPP8AxDa6TaazJF4fvje2O1WWQhuCVBZcsiFsHI3bVz1wKT/hI9c/tKPUf7Z1D7dGGCXX2p/NQMSSA+cjJZifXJ9aqX1/eanePd6ldT3dzJjfNcSGR2wMDLHk8Cqtrf1/FsLq1v62R0PhvwtputaY1zfaz9hkEhQR77IZAA5/fXUTd/7uPf05qdBFcSRo29UYqG45APXgkfkSPeo6KfUnodBcmN/AVp5DXCKl+6vG7oyF/LUl1wgYcYGCT0q5q+iaJYJfvbpqEi6bfpbSiSdB5ysHPy4T5CCmMndnrgdKwjrurGw+wnVL02m3Z9nNw/l7fTbnGPaq8l5dTCUS3MziZxJKGkJ8xhnDH1PJ5Pqa5/ZzvvbX/L/g/edHtI2Wl9P8/wDgfcdZqOl6RqPxJtNHtLSazjub6GCVhKpXa5UfIoRdvB9TVWHVRqPxEguZ4poEF0kNrFbuqfZVVgsagMrDCjHBHPc8msN9Z1OT7MJNQupBaENbh5mYQkYxtBPGMDp6Vf1bWNQTxA+qW0Nzot3dxrLKIXaPeWALOvQhWPzY5HPHGKag1TUPX+v62IlNObl3/r/InisNOdtYvNV+2TfZ71IUWCRIy5cyZLEqQPuZ4Ht3yL48L6Rb6j9juf7Qnkl1eXT4jA6LtVdmHIKnJ+foMZ9Rjnm3vdV1a6EclzeXs87IArSNI0jDIUY5JIycfU1cPiTVINLfT0uryCV7mWW5kFwytMWVVKuO+Np656ms3TqaWf8AVl/wfvNVUptu6/rX/gfcXYPC8Ek1um+aRHsbq5kkjxgGJpQpHHCnYufr15FN1ZdGTwppMkGn3EdxNHKBL9pTG4SYO8CMFvYZGAR1rGh1fUrezNpBqF1FbHJMKTMEORg/KDjkU+K61aLRpY4J7xNMeQLKqO4hZyMgMB8uSF7+ntVezndOT2f+f+a+4n2kLWStf/gf5fia3isiwtdI0a1Ux20VjDdvxjzppo1kZz64DKg9Avuahv8AxjqOoy2zXEdvtt7oXSxqrBWYKigHnoFjAH1PNU9Q1g6lpNhbXUGbmxUwpchuWhzlUYY5Kktg56HHYVmVu4pu7RztJpen/DnQSeM9Ul1ey1FxCZ7LzTF8pxukZmZyM9cvn8BWlpGqQ3sepaxrnlKLW0t7G2xZJciNsgKRHI20nbG/U9yfauPRGkdUjUszHCqoySfSr9tqes6DLPb2l7fabJv2zRRSvCdw4wwBHI561lKlG1oqz/4JLV9jYid7jQtcurZfNe+uYLGFYrVITICS/Ecfyqf3acDPJ79aisEVPA2pyWbXSTyyxW9wvyNHMpLyYC7dw2iMMW3e2MVjw6tqVslylvqF1Et3n7QqTMomznO/B+bqevqabbajeWkEsFvdTRwT4E8KSsqSgdmAPIo9m7Nea/C3+Q7G/pSx/wDCIaiNNe6iuJ3t7WYu0ZinLsSECldy42Z3BucdBUmseHNN07RNRniivzJZXiWSXUsiiK4k+bzNsezIA2n+M9Rn0rK1HV7SbTv7P0mxksrVp/tEiy3HnMz4woB2rhQCcDk8nJPFQ3d7rWqWbXN/c395bI6o0s0jyIrYO0EnIBwWwPc1PLK/Ntr/AJf8H7xJMXw/pSaxqy288/2eBI3mml2k7URSzcAE9B6H6GtpdG8Mz3N1Lb3l29jZ2JnnaJ9+ZPMCqis8UZ53D+Dg85NcvbXU9lcpcWc8lvPGcpLE5VlPsRyKnutX1K+eVr3ULq4aZQshlmZy4ByAcnkA8itJwlKV07BZ3LPiCxtdP1KOKyWeON7eGYxzuHaMugbaWCrnqOwrV8N+GbXUV0430N5cPqd00EMdrKsflomN8jMUbIG7pgcAnPSuZnnmuZjLcyvLIQAXkYsTgYHJ9gBWnofiO+0RmWG4uTbEOTbJcMkZkK4VyvQkHaen8I5FKUZ+ztHcGm1ZGvb+FbK5u7PyvthtpILm9uHypMdsjOEPTgnZz7kYFQ6loeh6To5S6v3fVzbxyrFGzgBnCsFKGLaRtb7wk/DtWIusamlitkmo3a2ibtsAnYRruBBwucchmz9T61JNqWsyaPFb3F5fNppOyKJ5XMOVwcAE7eMjgdMip5Kl9ZaD1vcXw/p0Wq6/aWd07R28j5mdMZRACWIzxwATXWT+DdCe1Wa1n1CNY0WefzWRm2CAyuqqFHzAGPknA34wduTwsU0sD74JHjYqVLIxBwQQRx2IJB9jVhNX1KOeOaPULpJY2LpIs7BkYqFJBzwSABn0AFVUhOTvF2E073Ojbw1pZ0+LVtl/BaCzNxJZtKrzMTL5ce19gAVs5yUOAp65FX9f0aygit/tdrqHkWENvZxWEUq+d50waZgz7McbiOEyTgcVyEeuatDqEl/Fqd5HeSjbJcLcOJHHHBbOT0H5Cnx6rrdh/pEV9qFt9sQfvVmdPPVcqOc/MBgj2xis3TnfV/1/w19dxWdw8QafDpXiC9sbWVpYoJSis+Nw9jjjI6H3Fbuj+GNPlhtxqcV9LJNYy6hJJbSrGltCobbnKNuJKeq43Ac1yFa9h4jvrLSrrT2uLmW2lgaKKE3DCOEswLME6ZI3Dt941pOM+S0Xr/X/AA5TvdGk/haGKG7mk+0iKx0uK5uHBGFnlClEzjp84468Hmp7vS/7Th8NaVpstzHaXRZ1W4Cv5LSSlN2VUH5hHnaScYwCa5ybWNTuLRLW41G7lt408tIXnZkVeDtAJwB8q8ew9KadUvzbQW5vrkwWzb4IvObbE2c5UZwp9xS5JvVsVnbz/wCB/X3nRjRPDN1rFjaWGozvGzSNdyI7PsiRNxYb4YyGwG4ww9/WLT9K8Paq8s8Mt7Z2llC0l2bqQNvy6om1o42K5Lc5Rse/WsW51zVr2USXmqXtxIEaMPLcOxCsMMuSeh7jvTNMudRtr9Do011Ddyfu0No7LI2f4Rt5OfSl7OaXxA1oP1mLTYdTdNFmkmtQq4d2LfNgbsEqhIznkqv071q+CzbLraSlruO8hWSaGaBkCwBI2cswdW39OnH1rBubm4vLl57yaSedzl5JXLMx9yeTWla6xZ2OmyLZ6e8eoS27W0lybjchVj8xEe3IYr8ud2OvGelSi/Z8u42r6GlYeGY9QbT5bn7SfPtbi/vnjxiOFCwBHHBJQ9c9RVlfCNklnexSQ30l3aWkUj3IlVIRNKU2RbShJ++Odwzg8CuZXWNTSxWyTUbtbRN22ATsI13Ag4XOOQzZ+p9a1dT8VfbNBGl20V3HESm4XN806xqo4SJSBsXPOMseF54qJRq30en/AAf8ifeuak3hHTvJmigj1DzotSi01LqSRRHcSsxDlY9mQBtP8R6jPpWJq1voZna08PJqU9wtz5UbysjrOnIBVVUENnGBzn26VUm17V7mZJbjVb6WSNgyO9w7MpGcEEngjJx9TVKOWSGZJYXaORGDK6nBUjkEHsaqEJrWT/r+vzGky1q0VrBqs8NhHdxQRttCXigSqQPmDAcA5zVKnySvNK8sztJI7FndjksT1JPc0ytoppWZQUUUUwCiiigCyn/ILn/67R/+gvVarKf8guf/AK7R/wDoL1WoAKKKKALl3FpqW0TWN3dTTnHmpNarGq8dmEjFufUCjSrTULzUoY9HiuJLtWDx/ZlYupBzuG3kY657VTp8MMlxMkMEbSyyMFREUlmJ4AAHU0tUhPY9C18y3HibXX8UR313ZaTbj7LBcTSJubckauM9nwWJHUZ71Evhi3nlnm0/Q4rq5RbSNrETS+RbtJF5jyOd+8KOgJcAHOewrjL/AEfU9K8v+1NOu7LzM7PtEDR7sdcbgM9R+dT6TrZ0jDR6fZXE8cglhnnRi8LjoRhgD2OGDDI6da5VSah7j/r7/UmztodFq1voGjfbrn+xo7sNqclraxtPKsYjiVQ5yG3HJYY54/DFPTSNHh8Mf2n/AGJfXi3MMs3mRQvJHa/MyonnLKoUrgE70b9a4h3aSRnkYszEliepNNq/Yy5UuZ3KtrodhNoUUXg+K5bSvscm1BLc6lHPE7s7cGBgwjcbecFQQATz1D/F+j6Zotgba20e/ikWcRx39xbPGsqqDkhzKySbuCNqpxz7VxlFP2cr35uokmuoV0egnWvEPi21lt0kubjdFHJLHbK/kxjagbAXC7RjDcYxnOea5yrs+j39vfw2T2rtdTIjxwx4dmDgMvC55IIOOvNaSt8wkrqxqa/qeo2fj++1ILNaXqXbSxiePDoM/JlWH93HWufJJJJ6mrqaPqL6xHpRs5o7+R1jW3lXy23HoCGxjr3qm6GORkbGVJBwQR+YpU1GMUl2K6nV6Zokb+D5r19HPmqkkrXmoRTpAyAYURSIwXfnPDggnAz2MV1atL8O7a6srOSGJbt1uXjmkMbFUQKzgnaHJdsYAOM9eTXL1aXTrptKfUlizaRzLA0m4cOQSBjOegPOMVLg73cupKVmibQdOTV/EFjp80vlJczLGzjGQCe2e/Ye+K7RfDdpIunJd+G1srq4lupFs0lmM0kUUW5UZSxO9mI6BeBnGDXndW7rUJbqzs7Z1RY7ONkTaDlssWJOT1ycduAKKkJSejsDTvc6yx0K10zXPDWn6hYJJeXp3XAad18vdNtAOxgQ6hG4GMMec4xS6R4fW6vNXutZ0/UL67inUfY1ge4lHmbm3yKssb9gM7up5FcVFE88yRRDc8jBVGcZJOBUl7Zz6ffT2d4nlz28jRyJkHawOCMjg81Lpy25tf8Ag+vyCz7nSyromn6dPqEuhNMbjUnitra5mkQRRIAXB2sDnLgDk4I5JxzdTSNHh8Mf2n/Yl9eLcwyzeZFC8kdr8zKiecsqhSuATvRv1rhqKbpNr4mOwV2djbW2p6RotpHb/Yor/VRA6rcykTqioCzgtt3ZfAKgdxiuStLj7LeRT+VFN5bhjFMu5Hx2I9DWpfvf6ro6XsdlDa6XYv5CxwMdkbvljw7FyTjqSegHGAKqom7dP6/zE1dnR2vg+32x/b9Mmjubi4upobBZGExiijDLDtOSCxZeo3bRkdRmaXwxbkx/8SCI6lBp5uZNMtZZW3u03lqHBdmAVfmYAggnBIrhrC8SyuDJLZ294jIVaK5DFTnvlSGB9wRTtU1KbVb03E6xx4RY44ogQkaKMKqgknAA7kn1JNZeyqc3xf194Wbf9dzrtV03RtJOo3NxpEEhtobSJIIbiUwm4kQyMd28sVABHDc8dM5rjr+e2ub6SWytBZwNjbAJC4TgZwx5Izk8+tVqK1hTcd3caVjtbTRdMtfB8eoXGk32pPPbSSvcQ27tFA2WVV81ZQEIwCdyN19DVDWdOu08H6HJHA5skged5yMRmWSUjaG6FtqL8oyeCcYBrmasPZXEVhDevHi3nd4433D5mXG4Y68bh+dT7NqV3Lr/AJ6CStuXfDVnbX3iK1hv132gLSXChiMxopduRz91TXaSeHdBu0hS30hobgAP9niuJGkuHW3814VyT3eIcDOd2OwHm1FOpTlN3UrA073ud8vhu0n/AHi6H/xNbeyM02i28kpy7ShULKWMi4VtzKGB+70zVvU9FW4kItNFj1K40+G1tU0+CWRoYPMQyvISr7iu5iAd4HJJJrzarFxZXFrb2008eyO6jMkJ3A7lDFc46jlSOfSs3SlfWX9ff6+fmLld9y14gisYPEF7FpLBrNJSIir7xjuA3cZzg9xjrXaaTofh5NLsxqGlCacxRSTzNcSAHckkzcKR0iVT9SvbOfOaK0nTcoKKlbzKaud/N4YtbTR7vdpEbxpYwvb38s0m+4nlMYzGAwUovmY+6egycnFLNoeh3epzWFlpqW8UOrwWCXDTyM8hJfzB97G35eMDPI5riV066bSn1JYs2kcywNJuHDkEgYznoDzjFVahUpP7X9aef9XJ5Xbc7218H2+2P7fpk0dzcXF1NDYLIwmMUUYZYdpyQWLL1G7aMjqMzW+lJZ+ItI+zaVDaakmn3F69taPJITKBII0AZ3O4FBkDnOR2rz5EaR1RBlmOAPU1Jd2k1hezWl0myeCRo5F3A7WBwRkcHmh0pPRy/rbv5odri3drPZXT292hjmT76EjKnGcH0I7g8g8HmoKKsXllcWEyxXcflu8aShdwPyuoZTx0yCDjrXR5Mor0UUUwCiiigAooooAKKKKACiiigCyn/ILn/wCu0f8A6C9Vqsp/yC5/+u0f/oL1WoAKKKKALl3Lpr20S2NpdQzjHmvNdLIrcdlEalefUmmWFk+oXi28ckERbkvPOkSgf7zkD8M1FLDLAyiaN4yyh1DqRlSMg/QjvTrS2kvb2C1gx5k8ixpnpknA/nS2Wgnojs7+4sbXxN4gv7kadfRw2yx6fE00cySfMiRsNpIJCLuI/AjBqzDb2V/dSnTX0P8AtNvskJaVIREoaLMrxxEbHbfhcKpIxwMmudk8H3ker2Wnfa7NpbzzSjq7bFVGZS7Hb907GIwDxV3TbTXdJuJbCwvbJHS0GoszRK5hygICsyEpIQyj5cckc8Vx8seX3Za2/L/hmQ1bRf1sWtZ1bT9Me/m06w0ua4m1SRIhJbROIoIgAP3eMKHJPbscc805LrTIfDH2m103Tbia5hlkuQ91bKYpGZgFWKRDKAo2keWwz65zWBdeGLyBtXCz21w+kOBdLE5LbS20uoIGVDYUnqCw4xzVQaRcNoB1eNo5LdLj7PKqt88LEZUsPRsNg88qRxxnRUYuC17f8D+u5fLrodDNHax+D4klbTrJ1VFYRm1upLrc2S25cywkL1B44x8p4L/F82nwWBs9L0+wW2E4EFzDeW08hRQcHEaCUbgQT5hb061xlFV7LW7fW4lGwVu6Daza5q0j3msraBIT5s890qSSJjb5aF2UMSOMEgY61hUVrJXWg2rm3r2p3X9vpJAy2hs4o4Lb7NdLL5aKuF/eocMe5I7k9OlYtJRRGKirDOt0xbeLwfMZf7NtJdkkguJDa3Mk+RhY/KbMsRz0ZemckfxCrdeReeBrSVf7Ojube4kVwnlxzFNsYUED53yS7bjkDB5HSucoqPZ63v1ElY0NBgsrrxBYw6pKsVnJMomdm2gLnuewPTPbrXbmK1WHSxqkegi4nku50WGO3WJQkWIomlXCsC5PLMegBOQa84qee8nuYLeGZ90dshjiUKBtBYsenXljyeaVSm5vcTWtzr7QaZpWseG7JpNJuQf+QhcMkcqKWmwyksCpwq4DHI+YkdjSaFbadaS6m88en3V8sqCKE39skaRsGLFWmV4nwdq8ZI7GuKopOjdPX+r3DlOsl1m0sdOnu7fTdKN7d6k7CJ4o51t4kA+ULgrhixGQAPlO3HGLqXWmQ+GPtNrpum3E1zDLJch7q2UxSMzAKsUiGUBRtI8thn1zmuGoodFND5QrsrU2d5pnh46pDY2sU+qFDItuke2BBGCHbqwJY8sT061ydpdTWV5FdWr7JoXDo2AcEex4P0NTahqd1qckbXboRGuyNIokiRBknCogCjkk8DkmrnFyaE1c7G1stHiWNb2TRpb2e4urnyFnj8qNljBhiaQHaELNnAbb8u3rkC1d2trG0EU50N9Wh00TRs0UEFu8sk2M9Fjk2x8gHIOSRnvwVhqNxplwZrQxhmQoyyxJKrKexVwQfxHam319c6lePdXsnmTPjJwFAAGAABwAAAABwAKx9hLm3/r/AC+Ycrb/AK7nZarqGl2J1G4tY9IvrhIbS2gdLaIIzlC8syxBQDgjbyvcA+lcdf3h1C+kujb29uZMZjto/LjGABwo4GcZ49arUVrCmoDSsdraSaZY+D43trGwvZpLaQ3Lz3lsHWQllA8qRDLwNpHlsM/WszV4Y38L6O0F3amK3t2Lx/aFMhmeViR5YO4fKF5IAwvXJAPO0UlSs7363/P/ADElY1fDRs18RWsmpCJrWEtNKk2NsgRS2znruxjHcmu0kufD96kMT2+iJcIA0aoscUckyW+7DuCMIZHC8kKfLOeSa82ooqUud3uDjrc75Rp8/wB46G+u21kf+eEVq0jSjHpC7JGT6gk/xbanv5bO7nmbTbrQ5763jtbZJbkQpAsfllpZI43AQ/OcEBSRzgAmvOqKj2Hn/X+XkHLrc0vEE1jceIL2XSUVLNpSYgi7Vx6hewJyQOwOK29MW3i8HzGX+zbSXZJILiQ2tzJPkYWPymzLEc9GXpnJH8Q5KitHTvFRuO2x1lvDZ6p4b0kSyaVbSR35imYmOKRYj5ajcOGcEl2LHIGDyOldBJqHhrUPJja20e0imnhyY4YwyK1wxAJ6gLHHhj/0054ArzOiolR5nv1J5dLHdW9vpVpe6QL2fSxNcaw1xci3lRltol2lY96/KFO49DtGPUHFLTbNBqmqTXtzpU+qGHzoFuLmN4RI8g3EsT5bsFJbblhz3IIrkqKapPuVb+vnf9T0S4XTJbm5k0650A3cK2sJuJooEhCGMtLKkRUK538YClgBjGTUtxc6ZPrE1/ay6K0J1GRbyS8ETlbaPaqLFG2chlB5jUnOBkAV5tRU/V9d/wCtCeUmumhe8ma1QxwNIxjQnJVc8D8qhooroSsrGgUUUUxBRRRQAUUUUAFFFFAFlP8AkFz/APXaP/0F6rVZT/kFz/8AXaP/ANBeq1ABS0lFAG5quo2Y0eDSbVjf/Z2LC9lXbszyUiHBCZyfmzk8hUOc4daFzpE8As0WK4a5uVLeQ1s6sDnAAz97I5yKl1jRW0ZYVn+0iZ1BbzLbZHyoJCtn5iM4PApqk4Jv+rlqnJLbYyqKuafpOo6tI0elafdXrqMsttC0hH1Cg+hqzF4X8QT6g1hDoWpSXixiVrdLOQyBD0YrjODkc9OaRBp+BwYLrVdRnB+wWumXK3JP3W8yNo40+pdlx9Ce1Hh8G18GeJry6BFpcQRWcQPSS4MqSDHuqI5PpketR+FfC+t+KNUj0e0h1AWbXca3ckVu8kdsxJXfIowAQN3UjvzVD+ydcudHe5istQuNKspHBnWF2ghY43fNjapPy5/Ck7PXy/r8xq/4/wBfkZVFFFMQUUVoaLpEmt6pFYw3FtbNIQokuZNq5JAA4BJJJAwAT36AkKUlFXYGfRUt1btaXc1vIQXhkaNivQkHHFPt7G7u0ke0tZp1jGXaKMsE+uOlNe8rofK72K9FWYtOvp7dp4LO4khUFmkSJioA6kkDHY1BHG8sixxKzu5CqqjJYnoAKdmDTSuxtFad34b1ywtftN9ouoW0GVHmzWrouW+7yRjnBx60l14c1uxvreyvtG1C2urkgQQTWrpJLk4G1SMtzxxSEZtFdJqngjWNOuNJslsL6bUtRtDcmwFm4mixI67dnLHhN2cDg/jWDd2lzYXclrfW8ttcRNtkhmQo6H0IPINK47ENFFFMQUUVsX3hyWz0f+0or+yvYUmWCcWruxgkZSwUkqA2drcoWHHXpUSnGLSfUaTexj0VPd2V1YSrHfW01tI6LIqzRlCysMqwB7Ecg96gqxBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBZT/kFz/9do//AEF6rVZT/kFz/wDXaP8A9Beq1ABS0lFAGtqFzp82lWcFrNdNLbKy/vIFVW3MT1DnGPpVbVryO/1J7iEMqMiKAw54QKf1FR6j/wAhS6/67P8A+hGq1U5Nlym3p/Wh1vgXxXaeF5rlrxLlhNPaSfuAD8sVwkrA5I6hePfHTrWnfeMtF1zSf7M1KTVLOP8Acym6t4ElkeSMyZVlMi5XEmQ27IIPBzXn9aVhpTahp1zNDjzYZI1G+RUQBg2SS2AOQAOe9JRc9F01FFNuy6ndW3xC0K51m01HVYNTgNjrL6lHBbKkguAwjH7xmZcMPLznad2SPl61nQ+OLZPC9tawTyaff2dtPbIU0e1ufOWRnb/XuRJFkSMpC7h3HUiuVi0HUZmkUQqhjl8lvNmSPD/3fmIyf50xNHvpIGlWJcAMdhkUOwXqQhO4gYPIB6H0pezdrW0/4H+RajNdP6u/1KaMUdWHVTnrXZah8T9X1GO3SaHAt50nX/iZ6g+WU5H37k4+oww7EVy/9mXP2M3SiJ4gAzbJ0ZlBOMlQdw59RVjV9Gk0+5nMat9lSTYjyOoZzjnA4LY7kDiqcZWu1sTyStexoeJ/GuoeKreCG/j2LAxZf9Nu5+SMdJ5pAPwANUPDdzYWPiC0vdUluY4bWVJh9mgWVnZWB24Z1ABwecn6VlUVlKKcWu5Ld9y/rctlcaxcz6bLPLBNIZAbiFYmBJJIwGYceufwFW9P1S0itLRLprmN7K4M8YgUES5xwSSNp+XGcHg9KxaK0pN0lZFc75rmld6q01varA0kLwtKx2nABds8Y9uKr6bcpZ6raXMoYpDOkjBepAYE4/KqtFCk00+xM25/Eept8VdPS6juFtb2do52mCS7QDm9knznccNsdecH5h6DNZWneLtC0ZYLC0l1a7sy928t5NCkc0Jnh8rMaCRgSPvElxu6cYzXA0VCikuXoNyblzdT0O28baFZNb2VrHeGzj0c6c1zc2ME7h/tBmD+Q7GNlPA2k5GeCSuTyXiTVTrGtPc/a3u0WNIopHs47U7FUKF8qMlVAAwAD0FZNFO2txX0t/X9aHU+G/H2peGNMaysYt8bSGQn7few8kAfdhnRe3XGfep7T4karZ6K2mRw5hYSAn+0r9fvkk/KtwE/iP8ADz3zznj6KGk9wTtsKMZGeB3xXS6/qOgy6LBYeHrjUI4YSHNvcWaL50mMNI8glYk9gNoAHHUknmaKidNSknfYE7Gr4gvbW/voZLG51K5jS1ijZtSkDyKyqAyqR/ADwo7CsqiitBBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBZT/kFz/9do//AEF6rVZT/kFz/wDXaP8A9Beq1ABRRSgEkAdTRuBY1H/kKXX/AF2f/wBCNVq2dQ8N32k2q3V2isiuquhSRcE9slQG6HlSfr0pb3TUutXsrbToY7c3UEb7AzFQzLk9ST+HJq/ZyWnW9vvNPZyW5i1oWF9bQWc9te2ss8csiSDyphGQV3eqtkfNUtvoM93qUlnaSxzNEpaR0jlwmDgjbs35zgcL/WpIvDc7a0+m3V5ZWLpC03m3kpijYBNwGSMhj0AIByccUe9Bc3QOWcfe+RXv9XfUIpVkiVWkuTOSp4GVA24/DrVmPxDIujpYs15H5SNGht7sxowJJ+dNp3dT3GRWLRRzy18w9pNO9/63N6TxLv0Z7BbeZQ8CQlftJMS7SDuWPHBOOeT1qDV9cXWQzXFriZW/cyiTlE/uHj5h6dMZ71kUU5VJS3Y3Vm1a+gUUUVmZBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAWU/5Bc/8A12j/APQXqtVlP+QXP/12j/8AQXqtQAUoJVgVOCDkGkoo2A0dQ1A3F0xutPtVuVkzNIpcGRh1yN+3k9doHtTrvWEvJoHl020HkqECqZcMoGAD8+ePbBqrqP8AyFLr/rs//oRqtVczsXzy1NaTxDcS3G+S3gaHyBbm3beVKA5AyW3cHkfNx9OKjsNXXT9Ue8j0vT5laJ4xbXETSxLuUruAZidwzkHPBrNrV0vS7O7067vtQvpLWG2kijxFb+azl93QblHGzuenvwZnU0vL+r/8OO8pu39aGVRXSTeGLLT2uf7W1V4I4bz7KrQWvmlvlDB8FlwMHkcn61Db21sfCOqSQyRyyxTxBme15CksAY5N2QD3BX0rH20Wrry79SvYyvr5/hf/ACMGiujm8NWkWnyyrqcj3ENnDeywi2wqpJsGA27lhvBxjBHcHgN8Sabo1ill/Zk90ZprWGQpJbhVbcOWLeYxBP8AdAx7041Yykorr5C9lJJt+pz1FdL4nWx0bxYmmW9pHJbaPIsEvyhWunU5lZmxnltwHYLgY650NHl0fxJq+/UtLt7KxtYm83yfk3PLOFVsqBwvmDA6AJ+FEqnKuZK6/r8zGT5dziqK67UfCtrptjBJqk5shBEq3TwxmaSWd3cqoQsqjEagk5H4k1ga1ph0bWrnTzKJvIfaJAuNwxkcdjg8jsacasZuyC9yhRXYWmgafeeF9Linuha3919qul224ctGi8b2LDag8p/XqeKqHwtbRWN2bnUJVvbSyW8lhjtQ0aB9uxGkLghjvXICkDPU4qfbQu0/66ApJnNUU+NPMlRCypuYDcxwF9z7V00/g5Bq1tY2l5K6yiR2vJ4UjtjGgyzxyiRlcdf7uDgHHOLlOMdwbSOWorrrLQtPsPFlmsd3FqdvFBJeXEbrGwURqzbW8t5EOdo/iPXkCs3QfDw1mK4urm8js7WBlQuzxKzO2SFUSSRqeASfm/A1PtY2v0/pBzIw6K330DT7WO4ur3Vn+wrdPbW0ttbCV7gqAS20uqhQGXnceSMZHNRHR9PttOhu9S1C4i+1h3tYobQSMyKxXc+ZFCZIIABbofbL9pELmLRXQzWMSeD7Q2bRXMl7e7CXtdkqOqLlEk3HKfvBnIHIq0ng2GeeS0tNUaa7truG0ul+zYjVpGKnY27L7SD1Vc4JFL2sVuLmVrnKUV1J8I2spQ2GsCeJZpo7id7cpGixIHd0IYlxggDIXJI9aSTwrZC0hvo9TuFsGtWupZJ7MJIi+Z5ahUEjBizZxllGBnNL20O/5jujl6K7PWfD+m29tbSS3T2tja2sKtMtmpuLiWbdKAU3gZCEZy/AAAz0rm9a0w6NrVzp5lE3kPtEgXG4YyOOxweR2NVCpGbsgTTRQorpbHwta3Gm2c9zqrQ3F7BNNFbpbb9qxb8s5LDCnYcEZPXjiobm1gt/BdtJbPFcNd3hDs9rtljZEBKo+47k/eDPA5Hel7SN7ILq9jAorrrnwREt1NY2Gq/ar6C6itZFNvsiVpN3G/cTldp3DbgYPJxUcfhOwuobaay1aeSKWaaNpJLIIoWKPe8i/vCWXBHUL17dKXt6dr3/ADDmRytFdJYeFI7nT4by81EWcb2kl2+6EtsjWQRr35LEnHTkY78ZmtadDpl9HFbXD3EUkEc6tJEI2AdQwBUMwBwR3NUqkXLlQJp7f1/VzOorqtE8H2+qaMt9daq1qz+YUhW1MjMqMi5B3Dq0gUDuePUh7eC7eLUv7On1YreTec1qqW25GSMuA0jbhs3bDjAbA5NS61NOzYlJM5Kiuy0vw5a2Qu2upTc6hBpxmNobUNFG0oCRguW++DKpxtwD34rO1Hw3bWdhfyQakbi502VIruP7Ptj3MSCEfcS2CCOVXuRmj20L2/r+tvvGpJnPUVe0jTG1bUBbiVYI1jeWaZwSI40UszYHXgcDucCuo/4RmxvNJ02KyuhHA0c19PeXcMUEuwusSL80m37ynALgck1U6sYOz/r+rA5JHE0Vf1mwt9N1N7azvVvY1VT5qhepAJHysykg8fKxHvWj4QtLS41iN7iaMzR7pIreaz8+KTahY+YNy4XA7ZPtTc0oc/QG7I5+iugtPDn2+XTme5EH2+Oe5kAh4gij3fN15B2N6YxU0/hGO10cT3OpxLfvEkkdmjRMWL42pgSeYGw2f9Xj371PtYJ2b/rYOZXsczRXW/8ACFRS+fb2epNNf291FZyKbYLB5r5yFk35IUKxJ2DpWXqejWdvpCajpmoSXkP2lrZ/Nt/K+YKG3L8zblIPfaenHNCrQbsmF03YxqKu6TexadqkN3cWcd7HESfIlwVc4IGQQQQDg4xzit/QLmw13xba6ZcaZbQWuowR6aNiAtFIQFWcMAPm8wBj6glTmru72SC+upydFPliaGZ4pOGRirY9RTKrcpqzswooooETrIosJYyfnaVGAx2AbP8AMVBXXeEfDmlap4e1jVtYF5IunTWsaw2s6xFxM7IcsyPjBAPT1HfIsWvhrQ0+Il14SvY9QmkOqNY295DdJGIxv2BmjMTbz34Zc9OOtJ6O39dP80HS/b/g/wCRxNFesaX8MNBuvDttd3M+om5mtYJiY5o1QGVpkA2mMnAMOevIbHGM1zM3hfSV0u8ij+2DUbLSYNTe4aZTDKJPKPliLYGXAmA3bz93pzgF1drsVyu6X9dP8zlLyRZb+4kjOUeVmU46gmoK6vxY1vceG/DV7BYWdk89vPvW0hCAhZmVcnlmIAAyxJPcmq3gTwp/wmvjC00L7Z9i+0Bz5/leZt2oW+7kZ6Y601r/AF2JehztbGla4dK0m9ggSNrieaF0M1vHMgCB88OCAfmGCB61v/E34df8K51Sys/7U/tL7VCZd/2fytuGxjG5s1keDWj/ALeCFriOaSGVYpYXQbP3bZyGRtwI47detY1JRdNvdf5f8MawjJVEtr/qZVxqd5dxSR3M7SrJObhy2CWkIwWJ61YtdfvrLTZLCD7L9nk++r2cLluuMsyknGTjnjtW14b8NadqmlWlzfNdeZd6mNPUQyqoTKBg/KnOOeOM8cjHMln4V06bSdPeV7r7VfwXciusihIzBu6rtJYEAfxDHPWs5VaKvFrby8m/yRrGnVlaSe/n3dvxZzbavfMswafImt0tpPkX5o027V6dti89eKWfV7u50+GznaJ4oQFjYwR+YoBJA8zbvxyeM4rTbQrRFvWZp2FvplveABgMtJ5W4dOn7w4/DrUnihNIjXT00+wnt5ZLKCTebhGXBXuojGW9Wzz6VcZRlJRjHqTyzUW2+n+X/AKXiPV4Ndvo9SCSR3s0Q+2ggbHlHBkU5z8wAJBHDE44PGfDe3Fvaz20Mm2KcqZAFGW2nI56jn0rpPGVwdI8bnT7SNPsuhSrb20LD5TsOWZsYyXbLE++OgFanhTUX8W+JV/tyC3uI7eBgsTR5VmmuFDOQSfmzMTn2H1pznyx5krrf/L+uhzSdt/I5xvGWuyXk91NeJNLcOjuZraKQb0XarAMpCsBxkYNYsssk8zzTyNLLIxZ3diWYnqST1Ndrc+HtOg0Nbu8SSSLT7KJ3S2KwyTvLPIuS5VvugAdD07Vrx/DbR0gvpbi5vpBbyT7AkiL8scayAHKnkgkZ+hx2rJVqUNlbp939InmUdDz9db1Bdm24x5dq1mvyLxE2cr077jz1561YufFOsXmnvY3F2Gt5ESOVVhRTKExt3sACxG0YJJP5mu1u/Cunx6LZabJJdNHJe6iIGSRV2NGMBn+U78iNRgbe9ZB8I6XH4es7mR7trq70ua+VllUJG0f8JXYSQeP4hj3pKtSlq1/Wr/Rgmrr+utjjoJmtrhJowhZG3ASRq6n6qwII9iK0z4n1X7VDOk0MRgV0SOK1ijiw4w4MaqEO4cHIOQBnoKv6roenWdhqKW4uvtemyQpJK8qmObfnOECAr0H8TVneGtITXfEVrp0srQpMWLOoyQFUsQPrjH+Nbc0JRcmtv8AL/IelrjI9fv4tSN9D9mimMZiZY7OFY2UjBBjC7DkHuKkh8S6nC9wRLDItwytJFPaxSx5UELhGUquASBgDA4HFdDNZ6bdeHdMEEV3DYRwXWoSQNcK0kjB1jwJPLAHCjnae9Q21jbabc6ldacJVjOhG4jSdw7J5uyNgWAUHAkbnArPnhbWP9J7Amn/AF6L9UYFvr19a20tvGbZoZZDIY5rSKRVYjBKhlOzjH3cdB6Cmrrd6NLGnsYJLdQVTzbWN3jBOSFdlLKM5PBHJPrWfXW+HLeO00u7u4JbmK+k0+4kWRGTywgIRkKMhJyCeQwxWs+WMb2G7KxhR63fw6UNOjnC2yyGRQI13qxIJw+Nw5VeAccCrUvi3WprmK4a6RJIpjOvlW8cYaX++wVQHb/abJq4PDlpxmSb/kC/2gfmHMnYdPu9OOvvWjdeENLjvLnSonvBe21xawG6aVTG5mIy3lbARjPTefrWbnSvZr8POxN42v8A1/WpzVn4g1KwWBLW4CpAJQiNEjqRIAHDBgQwIA4bPSrJ8X621y08l2krNCICktvG8flhtyrsZSvB6ccdBgVvQ+EdI1DUorK0N7buuoy2csksySB1jQsWVQi7Scdyce9PTS9N1Lw/YLAl3b2EFpeanJA06vJIysse0SbABwg52nHPFS6lJu/L/Wr/AMwdr7f1/wAOc8vi7WxczTyXizSTsjuZ4I5fnRdquAynDAcbhg+9Y8ssk8zzTyNLLIxZ3diWYnqST1NdrF4P0pxfXjPefZbfSodRSASpv+fqhfZj152/hXN+I9Og0rXp7SzMhhVUZPNYMwDIrYJAAP3vQVpTnTcuWK1Gmnt/X9XIl1vUF2bbjHl2rWa/IvETZyvTvuPPXnrSw65qEGmLp8UqC2WTzVUwoWVsqThiNwBKrkZwcdK1dCMLeE9fL2Vq8kFuhWZ4t8gLyouQTkLgbvugH5uScDFL+yYP+EJ/tjfJ9o/tD7LtyNm3y92cYznPvTvG7uuv9fmGj0/rYfp/iO7i1RZ7u9njje8+2SyW8aF/NwcOARg/ePynAIJHFXtX8YzyXGn/ANlTMUsYJIg01pFGsnmZ3jyFzGq4wNvOcZPJrlq6C98aatezW0oaO3ktroXURhUjDhUVepPAWMAD65zQ6UXJO39bfkFtblS98S6tqEckd3d70khWAqI0UCNX3qgwOAG6AY7DoAKpXt7cahdG4vJPMlKqpbaBwqhQMDjgACtjxvZ29n4qmNnEsEN1DBdiFBhYjNEkhVf9kFyB7Yrn6uMYrZWKslsaVt4g1Ozihjt7nYkAURjy1ONsnmjqOfn559h0GKefEurHT/sZuh5flmLf5Seb5ZOSnmY37SSflzjnpWVRRyRfQVkbM/ivWriya1kvMRMqK5SFEeQJjYWcAMxG0YJJI/E1DqfiDUtXj8u+nQp5hlZYoUiDuersEA3N/tHJ5PrWZRQqcFsgslsW9O1K60q7+02MipJsZDuRXVlYYKlWBBBB6EVebxZrL3Rnluo5GMAtzHJbxtGYw24J5ZXbgHkDHGBjGBWNRTcIt3aCyJbm4e6uXnlEau5yRFEsaj6KoAH4CtfT9Q0vS7CWe2N2+pTWslsY3jXykL5UuHDZPyHG3b1PXjnDoolFNcvQZrweKdYttOFlBdKkIhaDiGPeYm3ZQvt3FfmJwTgHBHQUj+ILy6WCK/eOSOIxjzUtoluNqYAAm278gAAZPYVk0UuSN72FZHX6341lmhtI9KvLl5YbtrxrmS1itiZOg/dxkqT94ljy2cHgVhz+IdSuLy0uXmjR7Nw9ukUEcccbZ3ZEaqFySBnjnHNZlFTGlCC0QWVrE95dz397Nd3cnmTzyNJI+ANzE5JwOOtaPhrVrfQtSbU5IpJbu3jLWSjGxZjwrsfRclgAOSAOBmseitLJKyGKSSSSck9SaSiimAUUUUAf/9k=)

Ilustración 4

En ningún momento, con el código de la Ilustración 3, se iba a poder salir del *loop.* Entonces modifique el código al de la Ilustración 4. El funcionamiento de ese *loop* era que no se termine el programa en caso de apretar mal un número.

Después, cuando cambié la estructura del programa a dos archivos en vez de tres tuve algunos problemas también. Por ejemplo, al usar la función *choice*  del módulo *ranadom.*

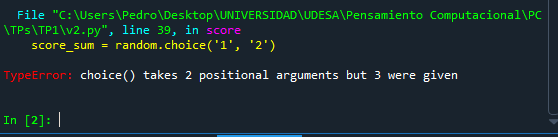


Ilustración 5

No entendía por qué sucedía el error, pero al decirme que necesitaba solo dos argumentos posicionales pensé que capaz era la coma y así era. Entonces saque la coma entre el 1 y el 2, y al ejecutarlo me funciono bien esa parte del programa.

Otro error que hubo fue en un *while loop*. En la consola me di cuenta de que el programa cuando se ejecutaba en automático se repetía después de que uno de los jugadores ganase como se muestra en la Ilustración 6.

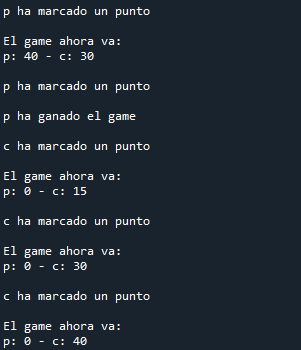


Ilustración 6

El problema estaba en el *while loop* en *main2()* que contenía a la función score en la parte automática del programa.



Ilustración 7

Lo solucione poniendo un *break* debajo de la función *score.*

Después no hubo muchos mas errores, ya que mucha parte del código ya la había probado cuando estaba dividido en tres partes, que es muy parecido al actual.

**Problemas encontrados y soluciones:**

Al momento de armar el código, me encontré con muchos problemas en los condicionales y con los *while loops* en Python. Las funciones específicas de los *ifs, elifs* y *else* fueron difíciles de incorporar al código. Igualmente pude solucionar al final los problemas generados por los condicionales probando repetidas veces y practicando diferentes formas de usarlos. Después lo mismo sucedió con los ciclos, pero generalmente los problemas ocurrían debido a errores en el código, como no poner *breaks* donde se debía. El sistema de puntos también fue un poco desafiante, ya que, en el tenis, los puntos en un *game* pasan del 15 al 30, pero después del 30 al 40, entonces con un algoritmo con sumas para modificar una variable directamente iba a ser complicado de realizar. Por eso utilice una tupla con los valores reglamentarios del tenis y una variable que llamase a los elementos de esta, que serían los puntajes de cada jugador, que variaban entre el 0 y el 5 como máximo. De esta manera pude solucionar el problema con el sistema de puntos.

**Instrucciones de uso del programa:**

* Se debe tener el módulo random.py y time.py descargado en la librería estándar de Python antes de ejecutar el programa.
* Se deben de tener los tres archivos que forman parte del programa: *main.py, simulado.py* y *manual.py*.

**Bibliografía:**

W3schools (2022). Refsnes Data. Recuperado de: <https://www.w3schools.com/default.asp> Accedido en: marzo de 2022