표제

목차

[네트워크 3](#_Toc118760022)

[ TCP (Transmission Control Protocol) 3](#_Toc118760023)

[ 신뢰성 3](#_Toc118760024)

[ TCP헤더 6](#_Toc118760025)

[ 프로토콜 6](#_Toc118760026)

# 네트워크

## TCP (Transmission Control Protocol)

TCP/IP 프로토콜중 하나

OSI 계층모델 관점에서 4계층에 해당

양 종단 호스트 내 프로세스 상호 간에 신뢰적인 연결지향성 서비스를 제공

* IP의 비 신뢰적인 최선형 서비스에다가, 신뢰적인 연결지향성 서비스를 추가 제공하게 됨.
* IP는 패킷을 받는 순서가 다를 수 있는 비 신뢰적인 서비스임. 대신 목적지로 최대한 빨리 보내려고 함.

### 신뢰성

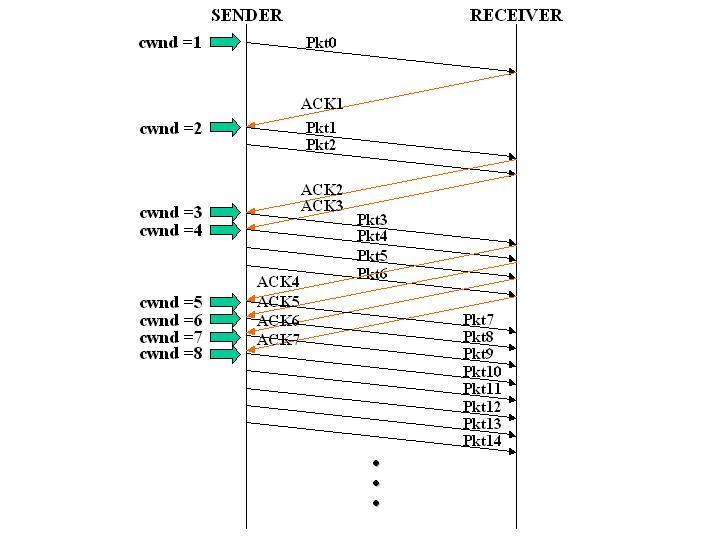
* + 흐름제어: 송신 측과 수신측 사이의 데이터 처리 속도 차이(흐름)을 제어하기 위한 기법. 데이터처리 속도를 조절하여 수신자 버퍼 오버플로를 방지

1. Stop And Wait(정지 – 대기): 매번 전송한 패킷에 대한 응답(ACK)을 받아야 다음 패킷을 전송가능 하다.
2. Sliding Window(슬라이딩 윈도우): 1번의 방식은 패킷이 하나씩만 전송되므로 비효율. 그렇기에 2번을 씀. 수신 측에서 설정한 윈도우 크기만큼 송신 쪽에서 확인없이 전송함. 전송받은 게 확인이 되면 다음 윈도우 크기로 확장되는 형태
   * 오류제어: 오류를 검출하여 재전송 ARQ(Auto Repeat Request)를 사용해 프레임이 손상되거나 손실되면, 재전송을 통해 오류를 복구. 흐름기법과 연관이 있음.
3. Stop And Wait ARQ: 흐름제어에서의 ACK나 NAK(Negative)를 받고, NAK면 다시 보내는 것. 다만 ACK NAK 둘 다 안 오면 일정 시간 뒤에 타임아웃으로 데이터를 재전송 함.
4. Go-Back-N ARQ: 슬라이딩 윈도우 방법에서의 신뢰성 보장인 것 같음. 패킷 손실이 난 이후의 모든 프레임을 폐기하고 싹 다 재전송함.

테이블이(가) 표시된 사진

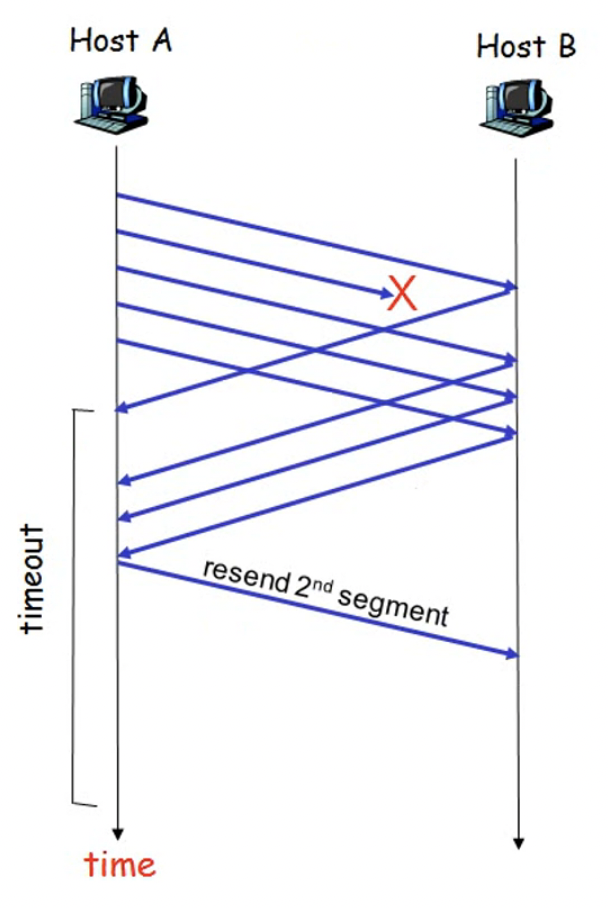
자동 생성된 설명

1. SR(Selectvie-Rejct) ARQ: GBn의 폐기하는 단점을 보완. 손실된 것만 보냄. 그 대신 구조가 복잡하고 프레임 순서 꼬인 거 재배열하기 위한 버퍼가 필요함.
   * 혼잡제어: 송신측의 데이터 전달과 네트워크 데이터 처리속도를 해결하기 위한 기법 네트워크 혼잡을 피하기 위해 송신측에서 전송 속도를 제어하는 것.
2. AIMD(Additive Increase Multicative Decrease): 합 증가/곱 감소 알고리즘. 패킷이 잘 도착되면 Window size를 1씩 증가시켜버림 유실이 되면 window size를 반으로 줄임.



단점으로는 네트워크가 혼잡해지고 나서야 대역폭을 줄이는 방식임. 미리 대응을 못함.

1. Slow Start: AIMD가 네트워크 수용량에선 효율적이지만, 초반 전송속도 올리는 것이 느림. 얘도 1부터 시작하긴 하지만 2배로 늘려줌. 혼잡현상이 발생하면 윈도우 크기를 1로 떨어트림
2. Fast Retransmit(빠른 재전송): 보통 다음 패킷의 순번을 ACK패킷에 실어 보내는데, 이때 순서가 맞지 않는 패킷을 3개 받으면 유실된 패킷의 Time Out 시간이 지나지 않았어도 해당 패킷을 재전송 시켜주게 된다. 아래 사진에서는 2번 패킷의 TimeOut시간이 되지 않았음에도 빠른 재전송 기법에 의해 재전송 되는 것을 보여줌.



1. Fast Recovery(빠른 회복): 혼잡상태시 윈도우 크기를 1로 줄이지 않고 반으로 줄이고 지수형태로 늘어나던 것을 선형 증가하는 방식. 이걸 적용하면 혼잡을 한번 겪으면 AIMD 방식으로 동작.

### TCP헤더

![테이블이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOyerOuzteywqAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzcAAJKSAAIAAAADMzcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADIwMTY6MTE6MTYgMTg6MjI6MjUAMjAxNjoxMToxNiAxODoyMjoyNQAAAKzH9bwozAAA/+ELHGh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMTYtMTEtMTZUMTg6MjI6MjUuMzY5PC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPuyerOuzteywqDwvcmRmOmxpPjwvcmRmOlNlcT4NCgkJCTwvZGM6Y3JlYXRvcj48L3JkZjpEZXNjcmlwdGlvbj48L3JkZjpSREY+PC94OnhtcG1ldGE+DQogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgIDw/eHBhY2tldCBlbmQ9J3cnPz7/2wBDAAcFBQYFBAcGBQYIBwcIChELCgkJChUPEAwRGBUaGRgVGBcbHichGx0lHRcYIi4iJSgpKywrGiAvMy8qMicqKyr/2wBDAQcICAoJChQLCxQqHBgcKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKir/wAARCAEwAgEDASIAAhEBAxEB/8QAHwAAAQUBAQEBAQEAAAAAAAAAAAECAwQFBgcICQoL/8QAtRAAAgEDAwIEAwUFBAQAAAF9AQIDAAQRBRIhMUEGE1FhByJxFDKBkaEII0KxwRVS0fAkM2JyggkKFhcYGRolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD6RooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKK4rXbbWj460yytPFmq2VpqMVzI8MMFmwiMYj2hC8DNg7zncT+FAHa0VykH9seJb2/uLbXbjR7Szu3tbeG0ghdpTHw7TGVH4LA4VNny8kksNvPeIfE97ZeJNZt7fxT5WpWfkf2doKpbn7ezRqxXYUMxDMSMq42jnoDQB6ZRWb4i1dtC0C61Jbf7QYAvyFtijLBdztg7UXO5mwdqhjg4xXMar8SIdL07SGnbQ4rvVEllje51tYrLy4yoLLc7CXzvTaAmTkngKTQB3NFcdZeObrXorQ+F9JgvpJLJL65E9+IliR3dFVXVHEjFopcdF+TO4ZFVl8f6neabp9xpHh2O4lu9GGrSJPqHlLEvGYwwjbc/PHABwcle4B3VFcTb/EMxWst9rmlfYNPfSX1i0kjuRNJJbpt3CRNqhJMSR8BnXk/NxzTs/irFcabqUy2um311YwwziDR9YjvFdZJPL2F9q7ZAexG05XDHnAB6FRXnviDxj4lttD1SGHTbCy1nT7iz3BNQMsLQTyBQyuYAckq6FSgwPmBJwK762adrWJryOOK4KAyxxSF0VschWIUsAehIGfQdKAJKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMjxdfXGl+Cdcv7GTyrm1064mhk2htrrGzKcHg4IHBrifFHii7s/EGpQReLTp15badbT6bpIjt3/tCdvM+Ty2QyvuKouI2U88YPNeg6vpsOtaJfaXdNIkF9byW8jRkBgrqVJBIIzg+hplppNvZ6tdX8TyGa6hhhdWI2hYt20gYzn5zn8OlACarqyaNoFxql5DIRbw+Y0EZBZmxwi5wMk4AyQMnqK5qz1jxB/wAJo8et6bFaeXo8lwltaaj58MreYvUuke1xyCSuMMMMeQOq1XTbbWdJutOvlZre6iaKTYxVgCMZBHIPoR0Nc6/w+trpLw6rrWr6lPd2JsWnuZIgyRlgw2qkapuDDOSpznDbhgAA5+8+JGp6n4V1Sbw8uiyahp95aRvLY6sLq3aKV1GVk8n72cqVKDAO4EnArc8Q+OpPDN7ptvqdvpUb3RgSWE6uFnLSSKh8iJowZlUtksShwDgZ4qwvgO2a21VL3V9TvbjVVhE13O0O9DCSY2RVjCKQSONuDgEgkkmO9+H1vf3EslzrmrlLlreW7iVoFW5lh2bZGIiyCfLXKqVQ8/KM0AR33jXUoDPeWWhw3OkW+oLp73LX3lzGTzVidli8sgorsRkuGO0/LjBNqLxTfzTa666VbxWWkPJD9puL8R+bIqo2SCmEjCsSzkkjacK1c/q/he/v9cksNNs9ctNOn1OK9nMtzaCw3LKkryKqsbjLFOEOE3tuIHJrqb3wjZX2mX1kbm6hF5fJfmWNk3RTIyOhUMpUgNEpwwYHvmgDBsPiTJqejmfTtPsb+8GrLpQWx1QTWzO0QkWRZwgygDAN8mRh8BiADNZeOdWmuo/t/h6G1tI9SGl3cyaj5jJOWwrRp5Y3xEtH8zFGG5vk+XnRsPBFpZTSTy6jqF7cS6impSTXLx7nlWFYR91AAu1RwAMHpgcVaPhSxMUyebcYm1NNTb5l4lVlYAcfdyg469eaANuiisbxLo17rWmm30/VZtPfnPljiT2J6j8D+BqopN2bsKTaV0rmpFdQTyyxwzRyPCdsiowJQ+h9DUtcH4J8Javo0N9BeX1xZEygqbXynWUY+9l0Y/y+ldR/ZN5/0MGo/wDfu2/+NVpUpxjKylczhOUo3cTUorL/ALJvP+hg1H/v3bf/ABqj+ybz/oYNR/7923/xqo5V3/P/ACL5n2NSqNzpEF1rdjqkjyCexjljjVSNpEm3dkYz/AMcjvUP9k3n/Qwaj/37tv8A41R/ZN5/0MGo/wDfu2/+NUcq7/n/AJBzPsU7rwmJNTuLzTda1TSRdsHu4LJovLnYDG4iSNijFQAShUnAPUA1pWWkwWOoX15C8rSXrRtIHbIGxAgx36DnJPNQ/wBk3n/Qwaj/AN+7b/41R/ZN5/0MGo/9+7b/AONUcq7/AJ/5BzPsW9Rs2v7CS3jvLiydsFbi2KiSMgggjcCp6dCCCMggg1gr4Gggtbb7DrGp2d/BLPKdRhMJmlM7b5QytGYsMwVsBBgqMY5zp/2Tef8AQwaj/wB+7b/41R/ZN5/0MGo/9+7b/wCNUcq7/n/kHM+xzniTR7y21C2uNGtPEdzefYxbT3en3doguUDEqkzTtuHLMd8ahl3tg9q0PD3gyHSNB020uZ3e4tdGj0qRojhCABllBGeucZ7Vp/2Tef8AQwaj/wB+7b/41R/ZN5/0MGo/9+7b/wCNUcq7/n/kHM+xU/4QzS2t7S3n8+aC10qTSRG748yB/L3FioB3ful5BGMn2w1PCZfSp7HVNd1XVFlMWJLpoQyCNgwAEcaryRySCx9elXf7JvP+hg1H/v3bf/GqP7JvP+hg1H/v3bf/ABqjlXf8/wDIOZ9irqXhGx1SbVZZp7mOTU4LeKRo2X915LM8boCpG4M+fmyOBx1ztW0TwWsUUs8ly8aBWmlCh5CBgs20BcnqcAD0ArP/ALJvP+hg1H/v3bf/ABqj+ybz/oYNR/7923/xqjlXf8/8g5n2NSisv+ybz/oYNR/7923/AMao/sm8/wChg1H/AL923/xqjlXf8/8AIOZ9jUorL/sm8/6GDUf+/dt/8ao/sm8/6GDUf+/dt/8AGqOVd/z/AMg5n2NSisv+ybz/AKGDUf8Av3bf/GqP7JvP+hg1H/v3bf8AxqjlXf8AP/IOZ9jUorL/ALJvP+hg1H/v3bf/ABqj+ybz/oYNR/7923/xqjlXf8/8g5n2NSisv+ybz/oYNR/7923/AMao/sm8/wChg1H/AL923/xqjlXf8/8AIOZ9jUorL/sm8/6GDUf+/dt/8ao/sm8/6GDUf+/dt/8AGqOVd/z/AMg5n2NSisv+ybz/AKGDUf8Av3bf/GqP7JvP+hg1H/v3bf8AxqjlXf8AP/IOZ9i/b3UF0rNbTRyqrFGKMDhh1B96lrzTQfAuux+IbnUW1STT4Wndg0bBpJ13HBIHy89eR+FelAYUAknA6nvV1YRg7RlcinOUleSsLRRRWJqFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFDWYtTm02RNDuILe7P3XmQsP/rH3wfpXDeENM8V23iXUG1Obyrh4R+/u4mnSQbuikOoH0z+Aq7r2mya58VLbTpdW1aztF0V5/KsL+S3VnE6qGIQjJwxFXv8AhXdp/wBDB4o/8Hlx/wDFVtCs4QcUlqZSpqUlK+xs/Z9e/wCglp3/AIL5P/j1H2fXv+glp3/gvk/+PVjf8K7tP+hg8Uf+Dy4/+Ko/4V3af9DB4o/8Hlx/8VUc7/pIvlRs/Z9e/wCglp3/AIL5P/j1H2fXv+glp3/gvk/+PVjf8K7tP+hg8Uf+Dy4/+Ko/4V3af9DB4o/8Hlx/8VRzv+kg5UbP2fXv+glp3/gvk/8Aj1H2fXv+glp3/gvk/wDj1Y3/AAru0/6GDxR/4PLj/wCKo/4V3af9DB4o/wDB5cf/ABVHO/6SDlRs/Z9e/wCglp3/AIL5P/j1H2fXv+glp3/gvk/+PVjf8K7tP+hg8Uf+Dy4/+Ko/4V3af9DB4o/8Hlx/8VRzv+kg5UbP2fXv+glp3/gvk/8Aj1H2fXv+glp3/gvk/wDj1cF8Q/Cf/CP/AA61zVtN8R+Jku7O0eWJm1u4IDDpxurpP+Fd2n/QweKP/B5cf/FUc7/pIOVGz9n17/oJad/4L5P/AI9R9n17/oJad/4L5P8A49WN/wAK7tP+hg8Uf+Dy4/8AiqP+Fd2n/QweKP8AweXH/wAVRzv+kg5UbP2fXv8AoJad/wCC+T/49R9n17/oJad/4L5P/j1Y3/Cu7T/oYPFH/g8uP/iqP+Fd2n/QweKP/B5cf/FUc7/pIOVGz9n17/oJad/4L5P/AI9R9n17/oJad/4L5P8A49WN/wAK7tP+hg8Uf+Dy4/8AiqP+Fd2n/QweKP8AweXH/wAVRzv+kg5UbP2fXv8AoJad/wCC+T/49R9n17/oJad/4L5P/j1Y3/Cu7T/oYPFH/g8uP/iqP+Fd2n/QweKP/B5cf/FUc7/pIOVGz9n17/oJad/4L5P/AI9R9n17/oJad/4L5P8A49XBDwnn4pPov/CR+JvsQ0ZbsJ/bdxnzDMUznd6Cuk/4V3af9DB4o/8AB5cf/FUc7/pIOVGz9n17/oJad/4L5P8A49R9n17/AKCWnf8Agvk/+PVjf8K7tP8AoYPFH/g8uP8A4qj/AIV3af8AQweKP/B5cf8AxVHO/wCkg5UbP2fXv+glp3/gvk/+PUfZ9e/6CWnf+C+T/wCPVjf8K7tP+hg8Uf8Ag8uP/iqP+Fd2n/QweKP/AAeXH/xVHO/6SDlRs/Z9e/6CWnf+C+T/AOPUfZ9e/wCglp3/AIL5P/j1Y3/Cu7T/AKGDxR/4PLj/AOKo/wCFd2n/AEMHij/weXH/AMVRzv8ApIOVGz9n17/oJad/4L5P/j1H2fXv+glp3/gvk/8Aj1Y3/Cu7T/oYPFH/AIPLj/4qj/hXdp/0MHij/wAHlx/8VRzv+kg5UbP2fXv+glp3/gvk/wDj1H2fXv8AoJad/wCC+T/49WN/wru0/wChg8Uf+Dy4/wDiqP8AhXdp/wBDB4o/8Hlx/wDFUc7/AKSDlRs/Z9e/6CWnf+C+T/49R9n17/oJad/4L5P/AI9WN/wru0/6GDxR/wCDy4/+Ko/4V3af9DB4o/8AB5cf/FUc7/pIOVGz9n17/oJad/4L5P8A49R9n17/AKCWnf8Agvk/+PVjf8K7tP8AoYPFH/g8uP8A4qj/AIV3af8AQweKP/B5cf8AxVHO/wCkg5UbP2fXv+glp3/gvk/+PUfZ9e/6CWnf+C+T/wCPVjf8K7tP+hg8Uf8Ag8uP/iqP+Fd2n/QweKP/AAeXH/xVHO/6SDlRs/Z9e/6CWnf+C+T/AOPUfZ9e/wCglp3/AIL5P/j1Y3/Cu7T/AKGDxR/4PLj/AOKo/wCFd2n/AEMHij/weXH/AMVRzv8ApIOVGz9n17/oJad/4L5P/j1H2fXv+glp3/gvk/8Aj1Y3/Cu7T/oYPFH/AIPLj/4qj/hXdp/0MHij/wAHlx/8VRzv+kg5Uc74X0rxnFrVzLbT/ZLFrhy/2pT5cnzHJWPOefUEfWvTxnAzye+K8+8TeCItN8JavfWviLxOs9rYzTRk65cHDLGSP4vUV1nhaSSXwfo0k8sk0r2EDPJIxZnJjXJJPJJ9aurVdV3asRTpqmrJmrRRRWJqFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHJP/wAlog/7F+T/ANKErra5J/8AktEH/Yvyf+lCV1tAHEN4m12/Wwt9Mk060uLvWb6xMtxaPOixwNNtOwSodxEQyd2OTxW94V1e41rQhc3og+0RzzW0kltnypWilaMumSSFbbnGTjJGTjJypfh9p97HZwauLbUrW31S71Fre6tFkSQzmUhSGJHymXrg529Bnjqre3htLaK3tYkhghQJHFGoVUUDAUAcAAcYoA4DUfitpeneFPEU9xrOiQ65pj6gltp8t0qvI0LyLCpjL7yWCrwMZzxjIrfvvGltp908L6ffXMVqkbX95bonk2QcZG/c4Y8fMQisVXBOMiifwj53gnXfD323b/a/2/8A0jyv9V9peRvu7vm2+ZjqM47ZrL1X4aWWpeJJNUaHRZxciIXP9o6NHdzAooTMMrMPLyqjhlcAjOOSCAbt74mWw1630+40vUBBcTLbpqASPyBKylgn3/M5xjcEK5OM9cYt942mudQ0yLS9P1GKyuNUW1GpPFGYLgAsHVRuMiglTh2RVO3hjld0V38OHvfGMWt3F/Yv5GoJewu+mBrxQv8Ayw+0FziL7xCqi445PO6xb+CdThlsLZtfjbSdNvvtltbCxxLjLERvLvwyjeQMIp4XJPOQDRsPGVrqGrRWiaffxW1zLLDaajKiCC6kjBLImHLjhJCCyKrBCQTkZs+F/EcXivQ4NWtLC8tLS5jSW3a7VFaVGUNkBWYjGcc4zjIyME4Ph/4b2WgeIFvoYNFaKGSWSCVNGjS9Bfdw9zu+YAMRwisQFyx+bd0nhzSP+Ef8K6Vo3n/aP7OsobTztmzzPLQJu25OM4zjJoA5/wCLv/JH/E//AGD5P5U/xDfeKrTxVpllpWpaPFaanK8cYudLllkh2QlySy3CB8lT/CuAe+OWfF3/AJI/4n/7B8n8q39R0b7frekah5/l/wBmyyyeXsz5m+JkxnPGN2e/SgDK/tDxFrGoXkOgz6ZZW2nS/Z5Lm8tJLg3Uu1WbYiyp5aqTtySxJzwAoLZ2v+JvEOnXWtXNtLpMdnolpDdTWs1vI8lyWDM0aTCRQpO3apMbckcdq1ZvD+r2mq3l14b1m2sodQkE1zb3tiblVkChS8RWVChYKuQdwyAQAS258fgvS38VS69qNraahe+XAtvPc2iNLbmMN8yvjgktn5QMYoAs+KtXn0TwRrOs2caNcWOnT3USTKSpZI2YBgCDjI5wRWPL8Q9FvPE2gaV4c1vR9UbUbuSK5S2u0mkjjW2lk3AI3HzRoMkEYOOpBre8R6R/wkHhXVdG8/7P/aNlNaeds3+X5iFN23IzjOcZFN1XRf7T1fRL77R5X9k3b3OzZnzd0EsO3OeP9bnPP3cd8gApaV4ytdWvoYo7C/gtrtXaxvpkTybwJ1KbWLjI+Yb1XcBkZFRL44tIhqH9qaZqWmNY2y3Wy5iRmniZiqlBG7kksuNhw+SPl5rI0H4X2mgPIln/AGTbolvJb2l3ZaPHBfRhlKhnuAx3sFPUKpJGTnnNfT/hT9mGovLqFjBcXtmlv5ul6UtrtkSTzEnYF3Mkm4AksecDpzkA0I/G00PiDUjrOn6jpNnY6alw1rcxRySOxkZQyGFnDlsBQobOewyM3JvHdtZ2NxLqekapZXVvPbQtYyJE8zfaJBHE6+XIyMpbI4bPytx61LvwJea3/abeJtYgvHv7FLTZb6eIoYtkhkVgjvJu+YjIYkHHYcUmnfDyKy05oVGi2Uz31pdO2j6MtnG628olVWXezMxIYbi2ACML13ADbOZ7j4ziaa2ltJJPDSM0ExUvGftLfKSjMuR7Ej3rt641f+S5Sf8AYuL/AOlLV2VABRRRQAUUUUAFFFFAHIeJL/xTZ+J9Js9J1HSIrTVbh4EFzpksskOyB5CSy3CBsmMjG1cZ745nOoeItY1G8ttCuNMsodOkFvPd3lnJcfaZtiswSNZU2Ku4DJZiSSMDbltTU9G/tHWdGv8Az/L/ALLuJJ9mzPm7oXixnPGN+c89Me9ULnw/q9trF5e+GtZtrJNQdZbq3vbFrlPMCqm+PbLGUJVVBB3AlQQAd24AyNf8S+I9PvNZmtZdHgtdF0+G8ntrmCR2nZvMLRrMJFCf6vAYxtyc47V0niLVZtK8G6rq9rGvn2lhNdRxzqcbkjLAMAQeo5Gapr4K0uXxU+vanbWupXght47ea6tI2lgaIud6vjgksD8oXBX8tLX9L/tzw3qWk+d5H2+0ltvN27tm9Cu7GRnGc4yKAMOPVfEej3+l/wBvzabqNlqUwtvNsbSS1e1kZSyEq0sgdSQVJBUqSvDAnbNceMWivLqy/sLVI7lbWa5s/NWILerEVDbP3mV5dOJNhIP1p1l4d1WbULK58S6xbXyae3mWtvY2LWsfmbSm+QNLIXIDHaAVAJJIY7SuL4e+GR0fxBDql3qFndSx2k1pJLDpohuLwSFP3k829jJJ8nLcA7jgCgC/pfjS/uPAmla5deGtTnubu0W4lt7MQfKuwM0gLTbQpz8qlt5B+7wcdRY3kGo6fb3to2+3uYlmiYgjKsAQcHpwa4W7+Gl5faFpGl32q6beW+m2hsxHeaR50RTCqkqxtKVWdVUjzDuHzHCgEg9joGl/2H4b03SfO8/7BaRW3m7du/YgXdjJxnGcZNAGhRRRQAUUUUAFFFFAGJ41/wCRB8Qf9gy5/wDRTVJ4T/5EvRP+wfB/6LWo/Gv/ACIPiD/sGXP/AKKapPCf/Il6J/2D4P8A0WtAGvRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcb4g0fxUPHVvrvhhdHkjXTWs5I9RmlQ5MofI2IePlHf1o834mf8APn4T/wDAu5/+N12VFAHG+b8TP+fPwn/4F3P/AMbo834mf8+fhP8A8C7n/wCN12Vea3dxc6La+INc8L3up3llp+i3bzT393JcRXN4gDxmFZCQAu19xjAjO8KMlSEANjzfiZ/z5+E//Au5/wDjdHm/Ez/nz8J/+Bdz/wDG6dpNlLoHjey0231K/vra+0qe4uDe3clxiaKSFVkXex2bxM+VXC/IMDimaumsyfEiOPQJ7G2kOkEvPewPOoAm4URq6E59d3GOhzwAL5vxM/58/Cf/AIF3P/xujzfiZ/z5+E//AALuf/jdVrfx7e/2clzeWlusl5ponsIomYiW6WTynh3HqC7w7TgEhjxxVA+IPEXh6+8ZX+pXttqUVnJbRW9pDZzDbLKkQTbiRzsy/wAyqhZjkjH3aANjzfiZ/wA+fhP/AMC7n/43R5vxM/58/Cf/AIF3P/xusqPxzr76RfeTbG5nt5ott+dBvLeMRPncfssjebIylcEI5++p7EV0WnarLqukW1y9xDOJYwTJbArG59Qp5H+6SSOmTjNUotkuSRyfi+0+IXiTwrqWhTReFo0v4GhaSK6uCUB78x4rT/tf4j/8+Hhb/wAC7j/43W/RWnIiOZmB/a/xH/58PC3/AIF3H/xuj+1/iP8A8+Hhb/wLuP8A43W/XMeM5r+zsjdabrc9pd+WVsbCCCKT7bcYJCMHUswOBnYU2qGYsAMqciDmZY/tf4j/APPh4W/8C7j/AON0f2v8R/8Anw8Lf+Bdx/8AG6xtb1TXNviPULLUjaJ4djVls0ijaO7ZYFncSMylgpDBRsKkYJ57bXjK9mtfA+pXlm0ySpb70MLbX6jgHI5/GjlQ+Zif2v8AEf8A58PC3/gXcf8Axuj+1/iP/wA+Hhb/AMC7j/43VO58XahpbXS61o8NubeFLstBe+an2bzAsrklFIaMHcVwQR0briDxH4l1uLULeDw9aWrxx6pFZyyXFyYxMzR72QYifC8qCw5BBGODS5YhzM0/7X+I/wDz4eFv/Aq4/wDjdH9r/Ef/AJ8PC3/gVcf/ABusl/iTZJ4o/sstpojW+XT3VtTQXZlYhQVt9uWTewXJYHhjtwATr6B4jk1vUL+A29tClq5TYt3vnjIYgCaIqDEWA3LywI5yOMvliHMzJW3+IX/CaN4gNv4YEjaeLHyjdXG3AkL7v9X15xW4l98Rn+7b+EfxvLkf+062KKORBzMzPO+Jn/Pn4T/8C7n/AON0eb8TP+fPwn/4F3P/AMbrWWR0+47L9DUyX869SG+oqeRj5kYfm/Ez/nz8J/8AgXc//G6PN+Jn/Pn4T/8AAu5/+N10aamP+WkZ+qmp0vYH/j2n/aGKnlaKujlfN+Jn/Pn4T/8AAu5/+N0eb8TP+fPwn/4F3P8A8brsVdXGVYMPY0tSM43zfiZ/z5+E/wDwLuf/AI3R5vxM/wCfPwn/AOBdz/8AG67KigDjfN+Jn/Pn4T/8C7n/AON0eb8TP+fPwn/4F3P/AMbrsqKAON834mf8+fhP/wAC7n/43R5vxM/58/Cf/gXc/wDxuuyooA43zfiZ/wA+fhP/AMC7n/43R5vxM/58/Cf/AIF3P/xuuyooA43zfiZ/z5+E/wDwLuf/AI3R5vxM/wCfPwn/AOBdz/8AG67KigDjfN+Jn/Pn4T/8C7n/AON0eb8TP+fPwn/4F3P/AMbrsqKAON834mf8+fhP/wAC7n/43R5vxM/58/Cf/gXc/wDxuuyooA4HWLT4lavod9pr23hSNby2kty4u7nKh1K5/wBX711+g2U2m+G9NsbsxtPa2kUMpjJKllQA4zg4yKv0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUANdBJGyPyrAg4OOKw9I8F6Poaqlh/aBgWH7Ottc6pdXEKx4xtEUkjJjAx04Fb1Izqi5chR6mgDK0TwvpXh4udLhmVmRY9091LOyRr92NTIzFUGThVwo9Ki1rwno2uXaXupRXC3MURhW4tr2a2cRk5KbonU7SeSOhwM9BV6bUVHEI3H1PSqMs0kxzIxPt2FWoNkuSMm/0iObWtEit7Szg0bQv31rHESGaUIY0TbtAWNQd3DHLBeBt5dfaFp2pXt5c3kLyNfQCC5j85xFIoxgmPds3DAAfG4DjNaFFaKKRDk2Yw8KaWLBrT/TmVpBJ5zalcNOGAwMTF/MAwSMBgMM3qc6VjY22mWMNnYxCKCFdqLknj1JPJJ6knknk1PRVEhRRRQAVhal4ZkvtdOrWuu6lps5t1titslu67QxbjzYnIJLc4IztXP3RW7RQBz994Qt7+7lll1C+SG6REvrVGjEV7sGAZAUyCRwdhXIAB4ArT1jS4Nb0e5027eVIblNjtC+1wPY9j71dooA5p9AfSrW+vT/AGh4mv57cWqpdSQqfKyfkGBGgXLEseWIH8WAKSy8HLD4N07R5r6eK6s2Sc31vtL/AGgHc7jzFYcszcMDwfxrpqKVhmND4c+z6s93b6rqEVvLN58tgrR+TJJ3bOzzFyQCVVwpOcjBYFbDw6llrUmpzaje30xiaGFblkK28bMGKKVRSwyF5cs3y9eTnYopiCiiigAooooAKKKKAFBIOQcH2qZLudOkhP15qCii1xl5NScffRT9Dip01GFvvbl+orKoqeRD5mbiTxSfckU+2afWBUiTSx/cdh7ZqfZlc5t0VlpqEy/e2t9RU6amh++hH0OankY+ZF2ioUvIH6SAfXipgQRkHI9qmzRQUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClq2r2WiWP2vUZWSMusarHE0ryOxwFREBZ2PooJ60aVq9lrdgLzTZWkhLsh3xtG6OpKsrIwDKwIIIIBFY/i9JILnQNV+y3F1baZqJmuY7aBppFR7eaIOsags2GlXIUE43HtR4UDRR6xqVxFLaxanqLXVvDPGY5BH5ccYJQ8qWMZbBAI3cgHNAHS015EjXLsFHvVGbUSeIVx/tGqTu0jZdix9TWig+pDl2L02pdoV/4E1UpJXlbMjFj70yitFFIhtsKKKKYgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAKMGt6bdaxc6VbXsM19aor3EEbbmiDdN2OhPoecc1DY+I9M1LUpbGymklkiLAyC3kELFThlWUrsdgeCFYkEHPQ4z7bTTbfEC8mtbT7Pby6Yn71IsI0pmlZucYLfNuPfnJ61zngbT73TJdDsY01pLmztWg1kXhm+ykqgVfK3/uyS4BDRdV3Fzk8q7Gej0UUUxBRRRQAUUUUAFFFFABRRRQAUqsynKkg+xpKKALCXs6fx7h/tDNTpqZ/5aRg+4NUKKXKmO7NZL+BupK/UVOkqSfcdW+hrCoqORFczN+isVLmZPuyN9Cc1OmpSj76q36VPIx8yNOiqaalGfvqy/rU6XUL/dkX8eKnlaKugubmKztZbm5fZDEhd2IzgDk1n6f4l0rUrK6u4bh4IrLJuRewSWrQALu3Okqqyrt5yRjGeeKuahcfZtNnnC3DBEJP2aPzJAO5VcHcR1wAScYAJ4PJ+ELRr+51s38N3qNhcmDZeaxYG3nuWVSGR4mVBtTC7SsaA7jwzBmKGdTpOrWGu6ZFqOkXKXdnMWEc0f3X2sVJB7jIPPQ9RxVyud8CW09n4Qghu4JIJRcXTGOVCrAG4kIOD6gg/Q10VABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUyZzHBI6gFlUkA9+KfUdz/x6y/7h/lQB59oevfEnxF4a07V7PTPC8UN/bR3CCS/uA4V1DDIEJAPPqfrUzW/xMZstYeFSfU6lc/8Axitb4Y/8kn8K/wDYJtv/AEUtdTTTa2FZM8/+y/Er/oH+FP8AwZXP/wAYo+y/Er/oH+FP/Blc/wDxivQKx/F2sS+HvB+q6vbJG8tlavMiy/dJUZ55HH4inzMXKjl/svxK/wCgf4U/8GVz/wDGKPsvxK/6B/hT/wAGVz/8YqmPi3/acGuTaFaQsumaW12qvdW1yXk3YAJt53UDHYlT+FdV4l8SzaH4Futbaze1u0iHlWlyBI/msQqoRExDEkjhWNHMw5UYP2X4lf8AQP8ACn/gyuf/AIxR9l+JX/QP8Kf+DK5/+MV09xrZ/tnRILJoZrTU0lfzRzlVQMpUg4wc+9ZepeJPEdp4ut9EtdE0iYXcU09vLLrEkbGOIxhiyC2bB/ejABI4PNHMw5UZn2X4lf8AQP8ACn/gyuf/AIxR9l+JX/QP8Kf+DK5/+MV1WiapPqV1rEU6xqtjfm2j2AjKiKN8nJ65c+naofEmsalpDWX9m2en3Auphb5vb6W3xI33FGyCTOeeTtAwOuaOZhyo5v7L8Sv+gf4U/wDBlc//ABij7L8Sv+gf4U/8GVz/APGK6DQNa1fUdWv7LVLDS7b7CVSY2eoS3DLIyq6qQ9vGMbGByGPYY9Oe1T4j6raeItU03T/Df2uLT51gM+L595MSSZ/cWUqj/WYxvzxnAyKOZhyoX7L8Sv8AoH+FP/Blc/8Axij7L8Sv+gf4U/8ABlc//GK7LRb241HRba8vLZbWaZNzQqZPk9B+8jjfp2ZFI9K5/wAV67qtvqS6d4W1bSW1Voty6VPYvczMTnEjlJk8qLoC7KQDwCSVUnMw5UZv2X4lf9A/wp/4Mrn/AOMUfZfiV/0D/Cn/AIMrn/4xWt4R1291C5ms9d1fTJNTjjDyaZBYva3FsQcMWV5pC6ZIAdRtPUMwINT6v4107SNajsZSHij51G6D/u9NUrmNpjjC7jgDJGAdx45o5mHKjC+y/Er/AKB/hT/wZXP/AMYo+y/Er/oH+FP/AAZXP/xivQAQygqcg8gjvWNe+KdO0+a+F15ywWAjFxcLGXVZZCuyEBcs0h3oQqqfvr3YAnMw5Ucx9l+JX/QP8Kf+DK5/+MUfZfiV/wBA/wAKf+DK5/8AjFb48Z6fJ4X0zW7e3u511by1sbRI18+d3UsEALBQdoYklgAFJJABq3a6+s1xYwXmn3unzXqyeWl0qcOhOYyUZhuwCwwSCoJBNHMw5Ucr9l+JX/QP8Kf+DK5/+MUfZfiV/wBA/wAKf+DK5/8AjFegUUczDlR5/wDZfiV/0D/Cn/gyuf8A4xWb/aHxD/4Sr+w/7N8MfaPsX2zd9vuNm3fsxnyc5z2x+NepVyX/ADWj/uX/AP24o5mHKjM+y/Er/oH+FP8AwZXP/wAYo+y/Er/oH+FP/Blc/wDxivQKKOZhyo8/+y/Er/oH+FP/AAZXP/xij7L8Sv8AoH+FP/Blc/8AxivQKKOZhyo8/wDsvxK/6B/hT/wZXP8A8Yo+y/Er/oH+FP8AwZXP/wAYqXxf4s1fQ/Ej26XEenaWtpBIl3J4dvNREs0ksiMm+B1VCNsWAeSZK1/Dmq6tqnhm8udQkit7pJJUguZ9MntIyoHyyNBK+8DPUFhkDgijmYcqMP7L8Sv+gf4U/wDBlc//ABij7L8Sv+gf4U/8GVz/APGKzdN+IPiGRdTmP2PWltUkktoNP08WzzwBfluw093hoS4dfkDE4BBwRnqtb8S6ppXgZfENpp1jeCGxN7dpPetbBVEe87MRyZPUAHHbmjmYcqMf7L8Sv+gf4U/8GVz/APGKPsvxK/6B/hT/AMGVz/8AGK24td1lLzQ4dTsbC1bUrmSN1trp7kCNYGkUhykeG3LgjaRjvzx0F01wlpK1lFHNcBCYo5ZDGjNjgFgrFRnuFOPQ0czDlRwn2X4lf9A/wp/4Mrn/AOMUfZfiV/0D/Cn/AIMrn/4xVmHxj4intdPuU0nw+YNRn+z2zDWrnMkmGJXH2LI4R+uOlaXjTxXc+FrfTjZaZ/aM1/dG3WPM3y4ieQtiGGVz9zGAnfJIAo5mHKjE+y/Er/oH+FP/AAZXP/xij7L8Sv8AoH+FP/Blc/8Axitfwn4p1TxBd3EeoaKunRwoGD7bxSxJ6YuLSEHv0JPTjnNa/iDUo9K0Sa6l1bT9IxhVvNSAMCMT/EN6Zz0xuHNHMw5Ucj9l+JX/AED/AAp/4Mrn/wCMUfZfiV/0D/Cn/gyuf/jFQ23ijxPa3izeJ9X0XSNJldWtrq80Se3Fwn8SsXuv3En91ZBkgggEh1Xtdc1q10HTWu7tgWY+XBAD89xKQdsSDqzHHAAPc9qOZhyo5D7L8Sv+gf4U/wDBlc//ABij7L8Sv+gf4U/8GVz/APGK63Qdbg13TFuIsRXCYS7tC2ZLSbALROOzDP4jBHBBqbVNVi0qGFpIpZ5biZYIIIQC8rkE4GSBwqsxJIACk9qOZhyo4z7L8Sv+gf4U/wDBlc//ABij7L8Sv+gf4U/8GVz/APGK6bTPFml6x4h1DRtPeWW409A08nlFY8l3QqrH7xDRsDjIBBGcggVrHxlHqVnPe2Wi6rNp6wtPb3ixx7LxFIBMQ37uc5G5V3AZXPFHMw5UYX2X4lf9A/wp/wCDK5/+MUfZfiV/0D/Cn/gyuf8A4xXd21zDeWkN1ayLLBOiyRuvRlIyCPqDUtHMw5UcCsPxNT7lj4WX6alc/wDxip0l+KK9bDwm311G5/8AjFdvRSu2OyPP9U8ReP8AQobW61fSvDf2SS+trWQ2t9O8gE0yRZCtEo43+v59K7LV9Ys9DsRd6hJ5cRkWPPuxx+nJ+gNYHxK/5Fe0/wCw1pn/AKWw1V+Inh6+1yK1eO7jitYXRPKKklnkcJu/DI/WtKMYzmlJ2RFSUowbitTtwcjI5FFZ+g2V3p2h21nqE6XE0CbPNQEblHTr3xgVoVnJWdkWndXCiiikMKKKKACiiigAooooAKKKKACiiigAqO5/49Zf9w/yqSoro4s5iBk+W3HrxQBzfwx/5JP4V/7BNt/6KWupryv4feLNdtfhv4dgt/AmsXcUemW6JcRXNqFlAjGGAaUEA9eQDXRf8Jn4i/6J1rn/AIFWf/x6gDsqK43/AITPxF/0TrXP/Aqz/wDj1H/CZ+Iv+ida5/4FWf8A8eoA87tbbVbzTYZb3W/Eel3cqK0sMWi+Ipmt3PJUMboo2OmdpU+mK9T8WlbK0tdeg06S/u7G4gVI1hlnMUUk0aTSJCnJkWJpCGClgNw6FgaH/CZ+Iv8AonWuf+BVn/8AHqP+Ez8Rf9E61z/wKs//AI9QBHpT6Hc+IdLTRbfV7JbV7iRYLjRb2GEmReQHljVIxwSFGAScAZNXrzwa97fXOrS6my615oawu1h+SyRdwSMR5+ZWDMJMkF9xwUwmyr/wmfiL/onWuf8AgVZ//HqP+Ez8Rf8AROtc/wDAqz/+PUAafhi2uLe98QtcxPGJtVMkbMhUSL5EI3LnqMgjPsazfGfh/VNfuoVg0u3uoLcB4pW8SXmnssmc5McERBIIBDE5HOMUn/CZ+Iv+ida5/wCBVn/8eo/4TPxF/wBE61z/AMCrP/49QBS8D+Fte8OXkUmo2NvJNNCqahfnxPe3bXDhFHm+RLEE3EoozkFV4BxwYbrwtr93qN1fHQLSCe7kEk/2TxvqVujuFVN2yOBVztVRnHatP/hM/EX/AETrXP8AwKs//j1H/CZ+Iv8AonWuf+BVn/8AHqANrw1b6nZ6X9l1WzhtvKOIvL1WfUGcHklpZo1fOT3zx37Vn+KtK1v7Bqmo6L4m1i2njtnktrC2t7SSPzFj+VQHgZzuYdNxOTxjgCr/AMJn4i/6J1rn/gVZ/wDx6j/hM/EX/ROtc/8AAqz/APj1AGlpOkavZxpd3PiTU9TkMGfsd6lrFEXI7mK3Vxz7n6GsSHTfF+nyabHonhzw1pVhYvIzWNprE0cUu9SMbVtABhju6Hn86s/8Jn4i/wCida5/4FWf/wAeo/4TPxF/0TrXP/Aqz/8Aj1AG54aspdO0gW02jaXowSRilrpUxkhAPO7PlR4JJORt98nNVvD7Lb61r1jMQty179qVSeZInjQK49QCrJn1Qj0rM/4TPxF/0TrXP/Aqz/8Aj1H/AAmfiL/onWuf+BVn/wDHqAMc+D70eA/B0GpaL/aj6Kqi+0jzIyZ1MLRkDcwjcqWDYZtpAPOcA29I02ayGhaWbVbKUapPqMenLIr/ANn2u2UKp2kgDLquF+UFiqkquau/8Jn4i/6J1rn/AIFWf/x6j/hM/EX/AETrXP8AwKs//j1AHZUVxv8AwmfiL/onWuf+BVn/APHqP+Ez8Rf9E61z/wACrP8A+PUAdlXJf81o/wC5f/8Abiov+Ez8Rf8AROtc/wDAqz/+PVh/2z4o/wCE/wD7c/4V/rPkf2Z9j8v7Vabt3m78/wCuxjHvmgD06iuN/wCEz8Rf9E61z/wKs/8A49R/wmfiL/onWuf+BVn/APHqAOyorjf+Ez8Rf9E61z/wKs//AI9R/wAJn4i/6J1rn/gVZ/8Ax6gCHXPhN4e1zVpdQMcFnJMS8qw6Tp8nmOSSzs01s7liTyS1L4K8F6ZpVjrNjdaNZukl09sZZNLt4Dd2+1SA4iiRHXJb+HFS/wDCZ+Iv+ida5/4FWf8A8eo/4TPxF/0TrXP/AAKs/wD49QAmueD7+a1uL2PxPq01xbwTG1iNlp8mzcpzGubUtg4CkZyRwc1ovocuu6Ho1vqMvk2UcUUt7YiAKbh1ClY26BYwwJZAvzYUZC7lbP8A+Ez8Rf8AROtc/wDAqz/+PUf8Jn4i/wCida5/4FWf/wAeoAUaBdaTrPhu2glmu9PtL6cwZiJNpAbWQLG75+YBjtViAcFQdxBZuh12K9uNGnh023juJpRs2SX0ln8p6kSxqzqcdCBn3Fc7/wAJn4i/6J1rn/gVZ/8Ax6j/AITPxF/0TrXP/Aqz/wDj1AHLQfDnXYtQMh0m3azjCPaWg8caootZv3nmSqwizlxJj2wf7xrrPE2k63rsenq+iafMbcCfzE8RXVk8E5VkYI8MG5l2sRklc5OVFM/4TPxF/wBE61z/AMCrP/49R/wmfiL/AKJ1rn/gVZ//AB6gBPDuja/pOrLLLpcKQSDZK8vi6/vyi9crFPFtzkDnIPXmul1WwudRtVis9WvNKdXDGazSFnYYI2nzY3XHOeBngc9c83/wmfiL/onWuf8AgVZ//HqP+Ez8Rf8AROtc/wDAqz/+PUAR6fofiS41bVoLvxl4git7aaNLWT7LYjzVMSMxybXDYYsMj0x1q5rGn64NTkudG0LQ7q6+x/ZU1e7v2guwp5K/JbNhd3zYDYzzgVX/AOEz8Rf9E61z/wACrP8A+PUf8Jn4i/6J1rn/AIFWf/x6gCbQNO16LULCfX9B0I3NvaC1k1aHUZJ7plAzgbrZSQzckb+5PJq74iZbXWNBv7ghbSC7dJZGOFiMkTKjk9huITPrIPesz/hM/EX/AETrXP8AwKs//j1H/CZ+Iv8AonWuf+BVn/8AHqAL8mjXc/jjVLxkMdndaNBaJOGGfMEk5YYzngSKc9Oa5TwtoLeFZrC8vNCj0GPSNPe31PUvPjI1RgEVWG1i7jKFgZQrLuCgfM2Nz/hM/EX/AETrXP8AwKs//j1H/CZ+Iv8AonWuf+BVn/8AHqANrwlZz2Hg7SbW7jMU8VpGHjP/ACzO37v4dPwrYrjf+Ez8Rf8AROtc/wDAqz/+PUf8Jn4i/wCida5/4FWf/wAeoA7KiuN/4TPxF/0TrXP/AAKs/wD49R/wmfiL/onWuf8AgVZ//HqAJfiV/wAivaf9hrTP/S2GtrxD/wAglf8Ar6tv/R6V5/408TazqGkWFte+DNV02FtZ04tc3FxbMiYvIiAQkpbkjHA716B4h/5BK/8AX1bf+j0q6fxomfws06KKKgoKKKKACiio4LmC6Rntpo5lV2jZo3DAMpKspx3BBBHYgigCSiiigAooooAKKKKACiiigAqO5/49Zf8AcP8AKpKjuf8Aj1l/3D/KgDmvhj/ySfwr/wBgm2/9FLXU1y3wx/5JP4V/7BNt/wCilrqaACiiigAooooAKKKKACiiigAooooAKKKKACgkKpLHAHJJ7UUyYBreQNGZQVIKDGW46c4FAGXo/inSteuGi0uW4lwhkSV7OaOKZMgb4pHQJKvI+ZCRgg9CK168ztm1saLqegeEH1eS1XS51tH1OwktZrCYKFihjmkCCZcZCn5ipTLSEMtZGnaHcQ+G9Wm0mzkSzdLNbvTrDw7caUZ4knDTgJLKzSytDvUlRl8qu4nGAD2OivHH0+wlvvFa+FNBubC0is9Gu1s0sHt2lEV5cSSGO3YKwJEbALtBZgSAdwJua6uo6+3ia80vT9Qjsbg6cr/a9LmzcwI8nnAQExyOozhk4ZlyAGDAMAer0V5Vp/hb7Voum2ktp5+lTeIBObOLRptOghi+zOrD7PI7MsTPncG2qxduCGyXvokVjG1lqWhXE3ha01u4J02CyeaPy2iVo2ECgmSISs/yqrAMQcfLkAHqVFeQeK9Ce81S3WKwMGkPpSQ6THL4duL5rJ9z7vLEcqG0kwYSGcLgKoBXYwHdeNLO7uPhX4gsollvLyTRbmJVjjJeaQwMAAozkk9hnrQB0tFeZeIfCf8AZ0mv2vhrR3S3udFjkdbaLAuriOZm5PAaZlJyT8zcZPSodbSfxRqviO4sdN1dLS40zTLaOSWyntnkZLudn2BlVwVDg5wCOvTBIB6nVGw1WDUb3U7WBJFfTbpbWYuAAzGGObK4PI2yqOccg/U+b6t4EsLaTxXLpfh1YmtYre40Zbe2IW3uAuWe2UDCOWSPcUAJKrnNQeJNHhuNY8Zj/hHtQuNfvLuM6DfixkaOGX7Hbqssc4G2HbIuWYlchMfNtwAD12ivKL7QtQufiXcT3SiO8OpQS2V5/wAI/PcSLbKE+RLxZRFCmBIrIwBOX+Vi43dd4M0KCwm1jUJrDyr+61O7zPLHiRovOYoATzsP3gBxliepJoA2b/XdP0y48i7mYS+S05SOJ5CEBA6KDyScKOrHIUEg1Vh8W6RPpNxqEctz5VtKIZomspluEkO0hDAU8zcQykDbkhgRwaz2uPseu+KHl+1CYw2zo9nD5syQFWUOiYbcVcStt2sf9k5AONpmq6hoeja1qMNjqeoi5vohb3l1pk63M+URGklgRN+1NuPkjQELwOS5AOssPFWj6lHbNbXMg+0zPbos1vJCyyoMtG6uoKNgZCsASORkVr1wH+jS+FUNm99Nf3euWkss17p8tnJNP58TMyxyIpCLEmBjPyJgliGJ7+gAooooAKKKKACiiigAooooAKKKKACiiigAooooA5L4lf8AIr2n/Ya0z/0thra8Q/8AIJX/AK+rb/0elYvxK/5Fe0/7DWmf+lsNbXiH/kEr/wBfVt/6PSrp/GiZ/CzToooqCjI8T/2UdDePXbQX1rLIiCzMfmfaZCw2R7Dw2Tjg/KMZOACRxp8NwWcOg6LrFnbQaPqOrzzNpAw1tH+6d4rcrjaw3L5mwDbv6ZABPe6npGm63Z/ZNZ0+11C23BvJu4FlTI6HawIzVSPwl4bh0eXSIfD+lx6bPJ5stktlGIZH4+ZkxtJ+VeSOw9KAM/wJFFbaVqFrY4/s631O5hslU5VI1fBRfRVfzFA6ALgcCuT0y91HSrO51S014mNfFc9kdIWGJo5RLfMjBjtMnmASGQFWACquVI3E97Dqui6Zpci2zR2tlp8yWJjigKpC5KqqBQOnzoOBgZ9qzs+B7FIvFksOiWBZ3VNVuIY7d9zM24eY4BBYl8885PrQBl2+q6vqt1L4a/tCaG/sHuft93DFGXaIL/o+AyFQzrKj8LjMTj2rm9C1DXbDwT4D0bTLnWLkX2iLeNLYrYC4UJFCFhT7Rtj2DzMk4Z+F56muw8M6joYuLzVE8R6drd5qt6lu9zp+GjQqh8qABWfaAoZss3JZjwCANibwj4buNN/s6fw/pUtj5xuPsr2UZi805Bk2FcbuTz15NAD/AA1dX174Y0+51dES+kgUzhCpUvjkjYzLz1wGIGeprUpscaQxLHEipGihVRRgKB0AHYU6gAooooAKKKKACoro7bOYnoI2P6VLUdz/AMesv+4f5UAeX/D74j6Fp/w38O2dxDrBlg0y3jcxaNdyKSIwDhljIYe4JBrov+Fp+Hf+eOuf+CG8/wDjVWfhj/ySfwr/ANgm2/8ARS11NAHG/wDC0/Dv/PHXP/BDef8Axqj/AIWn4d/5465/4Ibz/wCNV2VFAHG/8LT8O/8APHXP/BDef/GqP+Fp+Hf+eOuf+CG8/wDjVdlRQBxv/C0/Dv8Azx1z/wAEN5/8ao/4Wn4d/wCeOuf+CG8/+NV2VFAHG/8AC0/Dv/PHXP8AwQ3n/wAao/4Wn4d/5465/wCCG8/+NV2VFAHG/wDC0/Dv/PHXP/BDef8Axqj/AIWn4d/5465/4Ibz/wCNV2VFAHG/8LT8O/8APHXP/BDef/GqP+Fp+Hf+eOuf+CG8/wDjVdhJIkMTSSuqRopZnY4CgdST2FNtrmC8tYrqzmjnt5kEkUsThkkUjIZSOCCDkEUAcj/wtPw7/wA8dc/8EN5/8ao/4Wn4d/5465/4Ibz/AONV1MuoW0Oo29jLJtublHkiTafmVNu45xgY3r19as0Acb/wtPw7/wA8dc/8EN5/8ao/4Wn4d/5465/4Ibz/AONV2VFAHCR/ELwnFqs+pJaa4Lu4hjglk/sO9+ZI2dkGPLwMGV+QMndz0GLP/C0/Dv8Azx1z/wAEN5/8arqpr+2t762s5pNs91v8lNpO7aMtz0GB61YoA43/AIWn4d/5465/4Ibz/wCNUf8AC0/Dv/PHXP8AwQ3n/wAarqjf2w1RdOMn+lNCZxHtP3AwUnPTqRx1qxQBxv8AwtPw7/zx1z/wQ3n/AMao/wCFp+Hf+eOuf+CG8/8AjVdlRQBxv/C0/Dv/ADx1z/wQ3n/xqj/hafh3/njrn/ghvP8A41XZUUAcb/wtPw7/AM8dc/8ABDef/GqP+Fp+Hf8Anjrn/ghvP/jVdbbXVveQmW0njnjDsheJww3KxVlyO4YEEdiCKloA43/hafh3/njrn/ghvP8A41R/wtPw7/zx1z/wQ3n/AMarsqKAOIb4k+FXu47p7HV2uIkZI5j4fuy6KxBZQ3lZAJVcjvtHpUv/AAtPw7/zx1z/AMEN5/8AGq6m61C1srmyguZdkt9MYLddpO9xG8hHA4+SNzk4HGOpFWaAOIf4k+FpbiKeSy1h5odwikbw/dlkzwcHysjOOcVL/wALT8O/88dc/wDBDef/ABquyqO4uIbS2luLqVIYIULySyMFVFAyWJPAAHOaAOR/4Wn4d/5465/4Ibz/AONUf8LT8O/88dc/8EN5/wDGq6KHX9GuNWOlQatYy6isYlNmlyhmCEAhtgOcYIOcdCKZH4m0Ga9vLOHW9OkurFGe7gW7jL26r95nXOVA7k4xQBgf8LT8O/8APHXP/BDef/GqP+Fp+Hf+eOuf+CG8/wDjVdijrJGrxsHRgCrKcgj1FLQBxv8AwtPw7/zx1z/wQ3n/AMao/wCFp+Hf+eOuf+CG8/8AjVdlRQBxv/C0/Dv/ADx1z/wQ3n/xqj/hafh3/njrn/ghvP8A41XZUUAcb/wtPw7/AM8dc/8ABDef/GqP+Fp+Hf8Anjrn/ghvP/jVdlRQBxv/AAtPw7/zx1z/AMEN5/8AGqP+Fp+Hf+eOuf8AghvP/jVdlRQBxv8AwtPw7/zx1z/wQ3n/AMao/wCFp+Hf+eOuf+CG8/8AjVdlRQB5Z408faNrWkWFjZRaqs0ms6cVNxpNzCnF5ETl3jCjgdzz0r0DxD/yCV/6+rb/ANHpWL8Sv+RXtP8AsNaZ/wClsNbXiH/kEr/19W3/AKPSrp/GiZ/CzToooqCgqtqMAutLurdraG7WWF0NvOoMcoKkbGB4KnofY1Q1bxVpmi30dleC+kuZIzKsdnp1xdEJnGT5SNgZ45xUui+IdP19bg6cbkNayCKaO6s5rZ0YqGAKSqrdGBzjHNAHkK6FHpmnJPpOgQKWmsxqNzeaNHpklnIbqH93b7LdfOQkHOWIACnzGzg9VbyNb+A/C939nup4rXVPNmFpayXDqmZhu2RqzEZI6DvW7q/ivwzdRz2Woi/ubWGYGWeDTbuS3R4nDEmeOMphHT5juwpVg2MEVuWUWn6ToqCx2pYRRmRSrFxtOWJB5JHJNAHEaheDV/EWkXtrquvfZ01eEHT7/SjaQrmKTBQyW6SN90n77Yzz1Fei1k3l1o97b6RdXb7457iOSwbDjdIyMUOB/slvvcetaUtzBBJDHPNHG9w5jhV3AMjbS21Qep2qxwOyk9qAJKKrR6hazancafHLm6too5ZY9p+VJC4Q5xg5Mb9PTnqKs0AFFFFABRRRQAVHc/8AHrL/ALh/lUlRXRAs5iTgCNsk/SgDm/hj/wAkn8K/9gm2/wDRS11Neb/Dvx74Psfhl4btb3xXolvcQ6Xbxywy6jCjxsI1BUgtkEHsa6T/AIWP4I/6HLw//wCDSD/4qgDpKK5v/hY/gj/ocvD/AP4NIP8A4qj/AIWP4I/6HLw//wCDSD/4qgDpKK5v/hY/gj/ocvD/AP4NIP8A4qj/AIWP4I/6HLw//wCDSD/4qgDpKK5v/hY/gj/ocvD/AP4NIP8A4qj/AIWP4I/6HLw//wCDSD/4qgDpKK5v/hY/gj/ocvD/AP4NIP8A4qj/AIWP4I/6HLw//wCDSD/4qgDpKK5v/hY/gj/ocvD/AP4NIP8A4qj/AIWP4I/6HLw//wCDSD/4qgCp8Rr6b+xLfQ7G0nvrvWpxbG2tigdrcfNcHLsqj92GXJYDc6+uDzFrq95p3hjVtDvYb7QIrHUI5GLSR+fbaXPLneGiZwqqfNj3qcoibsqRkdl/wsfwR/0OXh//AMGkH/xVH/Cx/BH/AEOXh/8A8GkH/wAVQBxfiG7WCTRJ/BWpXWo2XkXoe9huWv5o4N1v5rwO5YzMvzYyzYO4AMVEZnv0g1a61uXRvEOpvpun+Gba60+Sz1aYqZS95iUvvJkP7tQQ5YNgbgcDHW/8LH8Ef9Dl4f8A/BpB/wDFUf8ACx/BH/Q5eH//AAaQf/FUAcfqut21w19L4j1+90q/FlBLotvbXrwGctCG3RxKQLlzNuXYQ/3UG0bvml1S88QR39xpa3d3HfvBDrwSOQ42xRbZLdTnhTNHHlehEzetdX/wsfwR/wBDl4f/APBpB/8AFUf8LH8Ef9Dl4f8A/BpB/wDFUAcz9tv7r+ydasne6uL/APtK809HYspjMf8Ao4UHoCixtgd2PrWLoOs6z/Yuq3el6vBdyR6Oz3YttZn1S4iuMriQwyQqtu4UzHygACwACYQ49A/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOE/tCwg1TVLnwHrV9q/l+H5GE63kmo+W/mruaN3LkyBcMY8kAhflG47ntrENvPq/8Awr7xBf6xHHoEkyFtQlv40n8xRvV28wmQKclBux8vyfMd3Z3XxB8F3FpLDF460S1eRCqzxanbF4yR94BiVyPcEexrL0fxL4H0u+nvrv4jabq17NGsX2i91W0BSNSSEVYgiAZJJO3J4ySAAADm7K+vpvDOqHStfhaze60yKObTvEM+qvDI90iSHz5Y127kK5jyQOpAD83byxn02bxNJba1rRGiXlobCOXU5pFjDrE7q25iZQxYjEpfAPy7a7D/AIWP4I/6HLw//wCDSD/4qj/hY/gj/ocvD/8A4NIP/iqAOM/tTV5viPLA+pWlvfx6uqQ2k2uTpI1mCuQlgIikgMe9vMycMSS6hMLZsFuomsNYfVtUlnufFN9YvG99IYfs/wBpuYxH5edvG1SGxuGAAQoxXVf8LH8Ef9Dl4f8A/BpB/wDFUf8ACx/BH/Q5eH//AAaQf/FUAZfwrtbGw0LUbO2upZLuDVr5LqCa+kneH/S5vLyrs2wsm1s8b87jknJytZ+1pd+LdZXVdTSXStatI7OGO9kWGNDBZs6mMHYwbzGyGBAySMEk11P/AAsfwR/0OXh//wAGkH/xVH/Cx/BH/Q5eH/8AwaQf/FUAclqXikWZudHl1p49Y/4Sy0RLX7QwmFs93AeFznyijFc/dOSvfFMntLu5kivH13WY5LrxRPYOsWoSIgtfMlUwhAdq9OHAEi/wsAAB2H/Cx/BH/Q5eH/8AwaQf/FUf8LH8Ef8AQ5eH/wDwaQf/ABVAHE6vJb2kOk2mr6zeW2nWPiye3+2TXjmWKE2Nw21pyd4Hzld5bcqnO4YyIL7WruPQ8WOqvL4YOuPFBqV7rM1qstuLdWAN8qu4j+0GVQ5I3bFTeQcN3v8AwsfwR/0OXh//AMGkH/xVH/Cx/BH/AEOXh/8A8GkH/wAVQBzGipqGp33hS01DWJ5LZ7XUZ86fqczpcxpPB5G6bCPKFVh8+PnAOSwY7ut8WASQaVBN/wAes2pwLPnoQCWUH2MixjHfOO9Q/wDCx/BH/Q5eH/8AwaQf/FVWv/HHw/1Swls73xdoEkEowwGrRKw5yCrBwVYEAhgQQQCCCKAMzUtUtLnx/pVlbahpt6LXUmk/sm0Ty7y0kMMitPLyxZPnY52xg71O5sgOujeI/D3ijxhZNZ6to8P9nvcJY6fFdRm7ncgq7tGDlF2hyEwSchm2kba2h8RvA4UAeMtA49dVhP8A7NTJviD4GuLeSF/GehBZFKsY9XiRgCMcMrgg+4IIoAs+CRs8MLEg2ww3l5DbqBgLClzKsQX/AGQgUD2xW/XK2vj3wDY2cNraeLfDsMEKCOONdTgAVQMAD5qm/wCFj+CP+hy8P/8Ag0g/+KoA6Siub/4WP4I/6HLw/wD+DSD/AOKo/wCFj+CP+hy8P/8Ag0g/+KoA6Siub/4WP4I/6HLw/wD+DSD/AOKo/wCFj+CP+hy8P/8Ag0g/+KoA6Siub/4WP4I/6HLw/wD+DSD/AOKo/wCFj+CP+hy8P/8Ag0g/+KoA6Siub/4WP4I/6HLw/wD+DSD/AOKo/wCFj+CP+hy8P/8Ag0g/+KoA6Siub/4WP4I/6HLw/wD+DSD/AOKo/wCFj+CP+hy8P/8Ag0g/+KoArfEr/kV7T/sNaZ/6Ww1teIf+QSv/AF9W3/o9K4nx1418LatodjZ6V4l0e9un1nTSkFtfxSOwF5EThVYk4AJ/Cu28Q/8AIJX/AK+rb/0elXT+NEz+FmnWF4xkceHhAjtGt5d2tpK6MVYRyzpG+COQSrEAjkEgit2q2pafBqmnTWV1u8uVcEocMpByGB7EEAg+oqCjgvFzzaLcy6pY6Z4o0uz0mxMBuNHGlmBrdfm4jnZmAXGAAq9OlaXha31a3fVFex12C9vv351LXRYSxiRUWNV8u0lUkYUHGBnB+YcV1F5plvqWjTaZqe67t7iAwT7ztaVSMNkrjBPtj2xVygDwa6k0qd7q+uviNoOniN7pbrRN9xbpLIJCH3Ww1ELlmVjtwA/mEsCTx6RqD37fDpHv9RsbaxktjJfXttaPCYLTZkiKENJ8+35c7sLncA2NptP8PNAdZkDavHFO7vJDDrl7HES5LNhFmCgEsTgDHNbN1o1he6DLotzBv0+W3Ns8IdhmMrt27gdw475zQBwdx4DubLxJ4dvnb7YNKu4rS0kS2ieQWgSTHmyGIygruC5Em1uCVDE52vEa6tqmuWlzpFnKYvDlwbsrKnlm+lMTRmKItjOIpZPn4TeyDdw+3StPBumWV5Fcw3WttJEwZRNr17KhI9UeYqw9iCK3qAOMs4LTxD4v8QRXMMptb3R9OJjmiaKRQXuiMqwDIw4PIBBHYitzwlfT6l4M0a9u23z3FjDJI/8AfYoCW/Hr+NTXeh2t099KjTW1zfwR289xC+HMaFioGcgf6x+QM/N14BF2CCK1t47e3QRxRIERF6KoGAB+FAElFFFABRRRQAVFc/8AHpN/uN/Kpajuf+PWX/cP8qAOS+GdhZv8KvC7PaQMzaTbEkxgkny1rqP7Nsf+fO3/AO/S/wCFc38OZfs/wd8NTbd3l6NbtjOM4iBq6/inZ4b0PVvsef7WktI/K83/AFXnlec4+bbu9BnHagDX/s2x/wCfO3/79L/hR/Ztj/z52/8A36X/AAqnp+t/b7HUbj7P5f2K5ng2787/ACyRnOOM46c4rCi8Xa6ngmbxJf6Fp8cJsku7WCDVHkaQsAQrloFCcEcjd9KAOp/s2x/587f/AL9L/hXJ+MLCzXxP4JC2kADazIGAjHI+xXNX4PGcdxa+H5Y7J1fV75rCeGV9r2UqwzSOrDByVaErjjOcg46weMf+Ro8Ef9hqT/0iuaAOk/s2x/587f8A79L/AIUf2bY/8+dv/wB+l/wqzXIa94n1bTb/AFS5tY7VtK0SKKS7haItcXO7LOI23qqbU2kbg24kj5AN1AHTf2bY/wDPnb/9+l/wo/s2x/587f8A79L/AIVxvg7xPrGsa7qMV+kqLEk7R2UwiDxlbqVFUshIyFVRkMRxnJ61Q8PeJ7+71HTBH4kOr3t2sp1fSfJhX+yCInf7qoJI9sirFtlZid+eoJoA9B/s2x/587f/AL9L/hXL/Eyws0+FXihktIFZdJuSCIwCD5bVZ+HOs6hr/gTTdR1i5+03c0MbPJ/Z0lnklFJ+Vz8/JPzrhG/hAFJ8Tv8Akk/ir/sE3P8A6KagCzezWOmNocH9mW8v9pXQtd21R5f7iSTd0Of9VjHHXPbFSwS2M3iq+0b+zLdfsllbXfnbV+fznnTbtxxjyM5zzu7Y5j1zSrzUdP0q40poPtum3KXcMdyzLHKfLaNkZlBK5WRsNhsHBwelGhaZqa61qOta6lpBd3kMFsttZzNMkcUJkZSXZELMWmcn5RgYHPWgDm/B7aXpWi+MdS1KCBbay1y/lkcxqdqJgn9BVs3tt4g+GOsXtxo0OnXsdpdw3NoQrtbyorAru2jPQEHAyCDWNpOhXviXR9f0u1vPsVrL4sunvZ0wZREjBwqBlZSS6oDu427uvQ6d14X1Dw/YeL7p9Wl1Oz1PTHlla7WNZluEiZCQIo0Qq0YQdMgp3zwAPgum0zwn4Rt9L0TT7+81OGKBRdTfZ0XFs0pYssbnpGRjb361R8X3Ntq3wl1a5k0qCyu4JxbTwrtcJIlwqttcAblOMg4BIIyAcgaUfho+I/C/grfNJFb2McVxOYLuW3lKm0eMBHiIYHc655HGevQnj/TbTR/hLf2OnQiG3hEW1cliSZ0JZmOSzEkksSSSSSSSTQBb12+uLLW49N0Xw9pN4/2N7uWS9u/sqoqsFwMQyZPPfAFZHiGbT9a8P+C9WtbBIItQ1axnWN4lDKrqW2nHHf6Vs+I/Aun+K9eS41u0trm0TT5LaMsv76CRnUiSNsfIQAfmBBBxWb4jXVI9G8Ix6+9vLqEevWqTS22dkpBcB8EDaWGCV5AJIBIGSAaGoajIPEk2j6F4e069ltLeO5ujc3ItzskZwojURvvP7ts7ti/dGTk7a3iGwsx8R/B6i0gCt9tyBGMH9yKn8YeH9V1u4j/s+x0oyxxsLTVZbqWC7052GC0exCXHQld8YYDa2QSaTXgy/EbwYHbewF6CxGMnyRzQBJ9qvLnxReabpnhzSJbOxkiSe5uLwxSYdQxKxiBgcA93GT6daq/YLP8A4XJs+yQbf7Azt8sYz9o61oQ+DNNl8Yahr2qaZpt3cySwvZ3Etusk0GxAOGZcr8wyMH3qv/zWj/uX/wD24oA6T+zbH/nzt/8Av0v+FH9m2P8Az52//fpf8Ks0UAVv7Nsf+fO3/wC/S/4Uf2bY/wDPnb/9+l/wqzRQBW/s2x/587f/AL9L/hR/Ztj/AM+dv/36X/CrNFAFb+zbH/nzt/8Av0v+FH9m2P8Az52//fpf8Ks0UAVv7Nsf+fO3/wC/S/4Uf2bY/wDPnb/9+l/wqzRQBW/s2x/587f/AL9L/hR/Ztj/AM+dv/36X/CrNFAFb+zbH/nzt/8Av0v+FH9m2P8Az52//fpf8Ks0UAVv7Nsf+fO3/wC/S/4Uf2bY/wDPnb/9+l/wqzRQBW/s2x/587f/AL9L/hR/Ztj/AM+dv/36X/CrNFAFb+zbH/nzt/8Av0v+FH9m2P8Az52//fpf8Ks0UAVv7Nsf+fO3/wC/S/4Uf2bY/wDPnb/9+l/wqzRQBW/s2x/587f/AL9L/hR/Ztj/AM+dv/36X/CrNFAHF/EaytYfDVm8VtCjDWdNwyxgEf6bDXQ+If8AkEr/ANfVt/6PSsX4lf8AIr2n/Ya0z/0thra8Q/8AIJX/AK+rb/0elXT+NEz+FmnRWZq/iLTtEeGO+a4eaYM0cFpaS3UrKuNzeXErNtBZQWxgFlGckZfpGu2GuRSvp8ku6FgksNxbyQSxkjI3RyKrrkcjI5HIqCjQoqvDf209/c2UUm64tVRpk2kbQ+dvPQ5welGn39tqlhFe2Mnm28y7o32lcj6HBoAsUVjan4w8M6LeG01nxFpOn3IUMYbu+jicA9DtZgcVJZ+KvD+oadc6hYa7pl1ZWgzcXMN5G8cIxn52BwvHPNAGrRXM2vxH8GX0txFZeKNLuJbfduihuld2Cp5jFFBy4C85XI4I6ggXtX8XeHvD9hDea5rNlp8M8TSwm5mEbTKoBOxT8zEAjgAnkcc0AbFFY2m+LvD2syQJo+s2eoGcsqG0mEoyqhiCVyFOCDg4qvrHjnQ9Curq31B7/dZxCW5e30u5uI4UILZZ442VeATyelAHQ0Vl6L4n0TxJ9oOgapa6ktsVWWS1kEiKWGQNw4Jx2B471qUAFFFFABUdz/x6y/7h/lUlR3P/AB6y/wC4f5UAcr8O4mn+DfhyJCA0miwKCemTCBWdb/C3SbHRvDw0/RdEtdW02ezluL2G0RHfyipkw4TcS2D1xnPOKk+HOqyJ4H8F6Xa2wmZ9EgnuZGk2iCIRqFOMHczNwBwMK5J4Abb8O+LIvEmr6xa2tsyW2nSIkV0XyLoMDl1GOFDKwByd2MjgigCnp2m+I7C61KyNlpb6be3dxOt1/aEgmUSZIHleRtyDgff9/asPRvAl/Y+DLrRE8O+G9IuJrGOB77Trhma6kTHzSD7OhwfmOcscn3zXQar41tdD8WTabqXmeQunx3SC1s5rmYkvIrsUiDHYoVcttwCwBPzAVB4h8eWeh6bqGqW9xHqdvb6XFfxWtrbyM0iuzhJPOXcuxtuPu/LgsTgjAAar4PuZ/HGk6zpk8MVnHe/bNQtnJBklW3kgSRMA/MVkCtnGQic/Lgu8Y/8AI0eCP+w1J/6RXNai+LNJa8tLXfdrPdIrqj2E6mIMSE83KfudxBAEm3JBAzXM6vqrarrngxp7cWt3b+IJ7e5txJvEbrZ3PRsDKspVlJAJVlyAcgAHf1gar4PsdX1KW5uLi6SC6SOO+sUKGC9VCSgkDKTxkg7Su4YDbgAKXWPFMWkXd0j2zzQWFn9rvJEb5kDFhEiLj53dkYYyMYGTyAWeEfEz+J7Oedhpe2JwoOmaot8qkjJR2VV2uOMjkcjDGgDH8FeFbrw94iv2GnRWOnFZ0tkh2BFU3UrqAqn5RsZTjAxnFa994K066luLj7VrizTMz4i1++jQMeflRZgqjPQAADoBiq1945stG8Ualp2sO0dva2sFwrQWk0zIr+ZveTYG2INg+YgAc5NN8QeObXw9Bf3Zk/tKOA2gS2tLSZnQTMQHaRA4YEAkYUcjGSWWgDa8Mw31t4S0iDWDI2oRWMKXRkk8xjKIwHy2TuO7POTmsn4nf8kn8Vf9gm5/9FNWgvinTZb6Gxga4N3PEsiLJZzokZZdypK5TETkfwPhuR8vIFYHjTVP7X+Cnie5aE28q6ZeQzwlt3lSoro657gMpwe4we9AG5r2s3GheHbe6srSO8uJZ7a1ihlnMKFpZEjBLhWIAL54U9KXw7rtzq0upWmo2UNpe6bcLBOttc/aIiWjWQbXKoc4cZBUEH1BBMXiXQB4m8NWunSR280JurSaeK5XdHJFHMjupGCDlVIwRg55pfDegS+Gri+sLJLaPQmkM9jDGSrWzOSZIguMCPdllweN5XAAFAHOeFdYj0PSfE91JBNdSP4nuoYLa3AMk0jyKqquSAOTySQAASSACa2NWudbm8Ha+mu6XZ2WNOnMb2V81yrfu2yDuijIP0BHuKwfDmkz6vpPiNbC4S2vrXxVdXVrLKm9BIjjhgCCVIJU4IOGOOa3tWl16bwdr7a7Z6dZKNOnEcdndyXJY+W2SWaOPH02n69qAILXXZtH8GeFLaxtIru+1KCC3to7i48iLcIDISz7WI+VGwArEnAwBkiL4hS3c3wn1B9Sto7W6PlCSGKbzUUidB8r7VyD1GQDzyBU0en3GqfDXRbSLStK1iGSxt/OstVYpFIBGpB3BHwQQD9w/UYrL8V6ff6X8F7+11W5NxcB1bmd5vKVrhSsfmv88m1SF3tgtjOBnAAOm1vX72z1qy0fRrC2vNQu4ZbgC8vDbRLHGUVvmVHYtmReAuMZJI4BzPGzySWvhR7iLyZW12zLxbg2xsNlcjrg8Zq/4t0m81eCCKDR9K1WJG8wLfXclrJbyD7ssUqRuyuMnBUKw6hqxvEtpdWGh+DLTUbw3t3BrNlHNclcea4DAtjJ6n1JPvQBtX/i2LSr7VrbUbUxmytkurXY+43iN8uFGBh/M+Tbz95Dn5sDO1h55PH3gh7uJYZ2jvDLEj71RvIXKhsDIB4zgZ9BWl4h8NDW/EHhvUNkDLpN688vmE7mQwuAFwOf3vkvg4HyA9QKpeIv+SleDv8At+/9EigDbl1fyvFVro3kZ+0WU1152/7vlvEu3bjnPm5znjb78Yn/ADWj/uX/AP24rWm0qeTxpZaurR/Z7fT7i1ZSTvLSSQsCBjGMRNnnuKyf+a0f9y//AO3FAHW0UUUAFFFFABWX4g1g6FpqXxtxPCLmGKc+Zs8qN5FRpOhyF3biOOAa1KpaxpcGt6He6Xd/6i8geByOoDKRke/NAGPH41tG8can4emi8pdOshdPdtJ8pI2mRMY42LJCxOekg4HeHT/G1q2nyalrtzBpkUenWl7cWjxOXs1nLhS8v3WBK4wFG3aSSQRjCufh7rWoeFrGG+vrM61NdTNq1whfy5YLhTHMiHGciPywuQMmMZxnNa+seELy/wBU1ue3e1SHULTToIUYkbTbzyyPkBcAFZFAxnkHOKANOHxpoU2l3t+bmeCKwdY7iO6s5oJkZsbB5ToJCWLALhTuJwMniqOn+PNPurrXJp5Tb6fpawZM1rLDOHkz8jROA+4nZtULubeuAdwqLW/Cuq3euajqmnTWnmN9gltIp2YK0lu8rOr4B2hhIAGG4g84OMGu/hjxHez6lqd42lwahLPaXNnbRSySQqYCcxySFFJDZPzhflLfdO35gDes/F+i32wQ3E0cjXK2phuLSWGVJGUsoeN1DIGAOCwAPY8ipbbxPo95JGlterK0t9Lp6BUbmeNWZ06dgjHPTjryM4F14Y1rVINW1K8Gn22s3K2n2O3hnkkgha1kaWItIUVm3O53YQfLgYPefQ/B0+keI4Ltp4pLOGyUFRnfJdlEjeZuMfciUA5ySzZHSgDc1fxBp2hmBdRkmD3Bby44LaSdyFxuYrGrEIMjLEBRkZIyKqS+JbWzudS+0Ty3cdrNFH5NhplxPLCXjDjd5YcvnOdyqAAQDzzVXxnoep6xDbHRY7VbuESCO7e9ltZbVmAw6NGreYuRlom+V8Lk8VQ1Pw74kRdcbSJLGaXV7i3EjS3UlsRCsKpLhljco7bSBgHAbOcgCgDSbx/4eXS7W/FxePFdiRoY49NuXmZYzh38oRmQIpwCxULyOeRXQRXEM9slxBKkkEiB0lRgVZSMhgRwRjnNcHqnhHWb+407UI7Czt5re0ayfT7PxBeWUUaBgUZJoY1LAAEFGjxyMEbfm66y0aKz8LQaLDiOKGzW1XYWIUBNvG4lsD3JPuaAMG98evZaHp+p/wBh3c8OpTxi3aJhtjgkljRJZWIAQnzVIjG5j+DFX+JfHUWh67FpFuuntcmJZZDqOpLZoQ7FUjjJVvMlbaxC4AAHLDIykmlX2u/Duy0zyhaX1vJZrOlwGVQ1vNG0m04+YHy22sBg5FQ+IvC2qXOsarc6NBpVxHrmnLp94dQZlNuF3jcoVG81SspzGSgyg+b5jgA6Oy1VrjWL/TbiDyJ7UJImH3CWF8hXHAwco4I7bepyK0a57RbGVPEd3PtmFta2UGnxyToVaZkLs78jkfMoyOCd1dDQAUUUUAFFFFAHJfEr/kV7T/sNaZ/6Ww1teIf+QSv/AF9W3/o9KxfiV/yK9p/2GtM/9LYa2vEP/IJX/r6tv/R6VdP40TP4WcF8R8S+IIbLU/GGk+GvOtZnsb6WKW2mhX5FdBcJeRbyWKvsKFTsGQdoq78OpN11qceka/o+u28G3z7m2hld7iUp8ubl7qcsFAxgjjjFdZrHhfTNcvILu9+2x3EEbRRy2eoXFq2xiCVJidcjKg856VR0ZPDmgaVf6rp9xdNbtcNDdXN3c3Fy5kikMJXMrM2A6leOO445qCjnj4Sn8QTat5+qQXE99cR22u2xgWSGAxhJYlgWeJ0YorKCWQh95b5GChel8A2MumeAdIsp4pIZLe3EZjkj2MuCeq4GPpgVl+ILHwPpesTXGva+2i3eoMJ3Q+JLixExChN4jWZF6IoyB2rb0jVNGimi0TTryaaaNZ9qzyTTORE0YkzLJktgzR9WOd3GQDgA4rxp8QRoXihLuy1jw1NBpsUsE+nTeI/ImlkkaP70IiYAoUOMknDN05B1/AWuvq2j3umv4i0O+1JWnmjm0zWBqLIskjMCwKKQE3qoHIwoHHSu4ooA8WtNVkgtdUW8n1QW4sbq0uLlf7Y1KG5lAKGQ+Zb+XCqsrEmMsOSOgrr9TtLyy8JaBBcahrOo6asi/wBoXOnqy3TxmNimBbokmwPsB8tQ+AM8bzWlJ8O9AljnjJ1dIbhpGkgi1y9jiJclnHlrMFAJY8AY5robF7V9PgbT5I5bXywIXiferLjjDdx70AedWketSavoIs7me2j+3XhsX1u3kmmNr5a8OpdJMk7tpkO8Lt3AnNaXiTQNQ1DW9V0vT/EFhZf8JHp8ge3uNKknkEcarFI6yLMijHnpwQeT3ANdlNYW1xfW15NHuntd/kvuI27hhuOhyPWqGs+GNN166trq/wDtiXFqkkcMtnfz2rqrlC6kxOpIJjQ4OfuigDL8J6Re6Rr+upfXt7qCv9m8u7vIo0MgEZBA8tEUgfTPqa6us7SNCtNEWUWc1/L52N323Ubi7xjP3fOdtvXtjPGegrRoAKKKKACo7n/j1l/3D/KpKiuiBZzEnAEbZJ+lAHmHgzRZL7wRoVu099a22ueFrOya8sBh7ZoVd8birBd6zOAxGPkxkFlz1Xhjwje+HvEGoXcut3N9Zz28EEEMsdumwRgjkRQoBgHCgcYJyOmMH4d+PfB9j8MvDdre+K9Et7iHS7eOWGXUYUeNhGoKkFsgg9jXSf8ACx/BH/Q5eH//AAaQf/FUAQ6vpviSDxbNrPh2DSbpZdOS0MV/cyQlXWR2D7kjfK/MBtwM+oxzkSfDm8XRdQ0yG+hkWfw3DpMUzgqWmRpiXZQDtU+YvQkjn053f+Fj+CP+hy8P/wDg0g/+Ko/4WP4I/wChy8P/APg0g/8AiqAKWoaH4gv9e03U4INP025XyftdzbajMWCI5LwtH5apcqVLKrPtMZkZlGeuNdwyt4o8OanNFLANU8US3McUyFHVF02WFSynkFlhD4IBG7BAIIrpv+Fj+CP+hy8P/wDg0g/+Krl/Ffjzwhc+JPB8tv4q0SWO31Z5JnTUYWES/ZLhdzENwNzKMnuQO9AG14i8Oyazda7pUqlYNasYvIuGgMsSSxFsrIOm3mM4JG4FgOlX/D+laqmu3+ta5BYWdxc28Nqttp8zTJsiLsHZ2RCWzIwA2/KB1OeE/wCFj+CP+hy8P/8Ag0g/+Ko/4WP4I/6HLw//AODSD/4qgCnq2j+Jk8Rave6CmkyQ6pZQ2u68nkR7dk8359qowkH7z7mVzg/MM1Tm8BXkWmanaWU8EiyWenQ2hmcrua1Jb5yFO0NhRkBsZPHHOx/wsfwR/wBDl4f/APBpB/8AFUf8LH8Ef9Dl4f8A/BpB/wDFUAVJ9H1x/FFnqyw2VggCPfS2t9O7SAJhoTB5YSbnhZTtYDGFGMHL8TW80XwT8YXFzE8L3tpqF0sTqQyI4coGB5DbNpIPQkjtW/8A8LH8Ef8AQ5eH/wDwaQf/ABVc38RPHvg+++GXiS1svFeiXFxNpdxHFDFqMLvIxjYBQA2SSewoA7DVNa/sjTrJILV729vGWC0tkYL5j7C2WY/dQKpLNzgDgMcKZtIutZnMya7plrYum0xtaXpuY5Ac5GWjjYMMcjbjDDBPIHH614w8K3ttpl5pXjbw1FqOmSedClxqcXlzAxsjROQ2VBDfeAJUhThgCpo+F/EfhHT/ABLq2t3mu+CdJl1GKJJINM1mKUSuryu0zuUjy7GXHQn5c55wAC74X1b+xNF8UXvk+fjxTPFs37f9ZPHHnOD03598VrajrUmueDfEVzb2gTShYzraXbS/Nd4jbc6pjiPPCsT82CQNpVm4PTtf8Jat4X8UaXdeJ/D0YvPEks4S91CIJNCJ43JwSdysqkDjBrWuvF/h3TvDOvaVF408O32mGwmGnZ1eN7mMlCPIIyd6g/dbduwQpBI3EA6rwxq/lWvhrRvIz9o0IXXnb/u+WIF27cc583Oc8bffjH8c6z/a3gDxXD5Hk/2bfRWe7fu8zmCTd0GP9ZjHPTrzWHaah8PdbXwxc+Itd8I3trYaIbZ7XULy3kZJn8gghHJAIEbg9CM49az9a1XwZovw/wDFVho/iLwysV/qMd1Z2WnX0PyJ+4UjYpGDmNyQMjHPrQB6R4t8Qa14fNrJpukWF/bXFxBa77jUXt3WWWQRr8ohcFQWUk5z1445oeMnuns/CjahDDBcnXrTzI4JjKin5uA5VSR77R9KreJvF/g/WrGyhtfGvhtGt9StLtjJqsIBSKZXYDDHnCnHv6VQ8b+PPCF3/wAI99l8VaJP5OuW0snl6jC2xBuyxw3AHrQB0+j+MBqXizU9DubFrRrWQrazmTct2FC+ZjgbWXeuV54YEHrjCh1r/hJNe+HOtfZ/s39oWlzc+Tv3+Xvt1bbuwM4z1wKpTa34QltdRePxz4ah1A6m2o6bcLqkJ8l9iqA3zdGAZGA6q5AOTxk6b4k8L6Jd/DvT5vFmgTf2TZTW91PBqcTxIwt1UfNkYBI4yBn0oA661+I4n8L+ItTuNKa3udFt7i6S0afIuoYw+11fbwGMbKeDtIPXgmeJ/M+MSPjG7w6Dj0/0iuK1yXwtqPw/k0yy8d+FoNZEF5bxznVYvKeG5Zt8TnOdpDK3A4dFPIGDrQ+OfCMfxUjuW8VaJ9mXQRCZxqMXl7/Pzt3bsZxzjrigD0+iub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoA6Siub/4WP4I/wChy8P/APg0g/8AiqP+Fj+CP+hy8P8A/g0g/wDiqAOkorm/+Fj+CP8AocvD/wD4NIP/AIqj/hY/gj/ocvD/AP4NIP8A4qgDpKK5v/hY/gj/AKHLw/8A+DSD/wCKo/4WP4I/6HLw/wD+DSD/AOKoArfEr/kV7T/sNaZ/6Ww1teIf+QSv/X1bf+j0rifHXjXwtq2h2NnpXiXR726fWdNKQW1/FI7AXkROFViTgAn8K7bxD/yCV/6+rb/0elXT+NEz+FlLxvPZQ+E7ldSbQ1gmKx/8T+RVtMk5BcEYfGNwTjcRjcv3h4/4eHhix8OavFol74XuZ7iaeMNbtAl+Nl5g7RGo3wSBBKq8eWu0AuMFfoCq9/YW2p2MlnfR+bBJjem4rnBBHI56gVBRzOqanHonxAa8vbTUpLebS0iSWz0y4ul3iVyVPlI2Dgg84rnfCrXMvxaed5YzaSxas1vF9naOWM+dYbt5Zuc5GBtUrg5znj1Cs630DTLXVf7Sgttl3iYeZ5jH/XNG0nBOOTDH2428YycgHN/EOC61K68PaPE9qlrqF86zi9jaSCUpC7pG8YK+YCVLbNyg7OSQCDh6Naadr2qaNo2t6dpk2mWkOoxxWUUINjPPDcJH5kcbZHCl8Jk7NzgZxmvR9R0yw1ixey1ayt760kwXguYlkjbByMqwIOCAarXnhrQtQ0mDS7/RdPutPttpgtJrVHii2gqu1CMLgEgYHANAGf4AdpPAunHzXmiCutvK7lzJAJGELbjy2Ywhz361xvhC61Sz8PeEGg8SNPFq++y+wpBCUgVYpDvjO0vvQxjdvZ1JLDauVC+qKqooVAFVRgADAArLtPDOi6ZdzXujaPpthfyQ+UbqGzRXK8YVioBK/KvGf4R6UAee+JNY1XxL8N/EVqbyS1l0zQLuPVfIiT99dqHQoNynCkQyEgYJWZCCODVvWtV8T2WpJoukXGr3RsdJjvBdQLp+6eR3kH78TGMeWvlqP3QUnccsvBPaaFoC6Vp93FeSpfXOoTyXN9N5OxJncAEBMnChVVACSdqjJJySsvhHw3PaWdrN4f0qS3sSTaQvZRlLck5OwbcLkgHjFAGDDrOrJ4wtDq11Nb2N2Y4IILYW8tsJWg8xopTzKsudzBlPllNnc89rVE6JpR1kaudMszqYTyxe/Z084L0278bse2avUAFFFFABUVz/AMek3+438qlqO5/49Zf9w/yoA5L4Z2Fm/wAKvC7PaQMzaTbEkxgkny1rqP7Nsf8Anzt/+/S/4Vz/AMMf+ST+Ff8AsE23/opa6mgCt/Ztj/z52/8A36X/AAo/s2x/587f/v0v+FWaKAK39m2P/Pnb/wDfpf8ACkOl2DEFrG2JU5GYV4/SrVFAFb+zbH/nzt/+/S/4VH9l0v7V9m8iz8/Z5nlbF3bc43Y64zxmuavNO0vxF8QL3TfE9vDfxW1lDPY6deIJIWBZxJOI2+V3B2oWwSgKgY8w7qN7pssvi6O28Maw2kWtvojiOSzjjlK7ZsKi+YGUIDkFccYABUCgDt/7Nsf+fO3/AO/S/wCFH9m2P/Pnb/8Afpf8K8tn8aeKdZs7O40hL2F08P2mqEWYsRFJJMjMTP8AaJFYQgpj93tP3/mzjHXWF5qereJNRln1h9Lh0u7hthpixwssoaONyZGZSxLGQquxlHyj7xyKAOggttLuoRNawWc0RJAeNFZSQcHkehBH4U9tLsHUq1jbMpGCDCvP6V5r4U1fWLrS9RtbC/g0ufTYbk2dndhQl4zyyBZ5HKkiIP8AKAhyCG39VUaun+I9QS+0Oykv78v/AG5JYalHqkNss6ZsZZ443MI8s5PlMGTsQp53CgDtv7Nsf+fK3/79L/hR/Ztj/wA+dv8A9+l/wrhE13WtYvraysdbNrHPr97ZPcQQxOywxRSMFXcpXcGUckHvnNR+HtX8RF9CvdR12S9jvNXu9ImtTaxJGywfaVWYFV3CQm3DHnZ8xAUcYAO+XS9PXO2xthk5OIV5P5UHTLAgg2VuQeoMS/4VkeLY0vW0XSblRJZ6nqIhuom6SxpBLNsI7qWhUMOhUkHIJFZ9pp/2P4wXExu7u4a60lpCs8xZIv3yALGn3UXAHQZJ5JJ5oA6caZYAACytwB0AiX/ChtLsHXa9jbMD2MKn+leVeErL7VNpGoeIbDRtQl8VG6t7wi3Y3iHy3Z1lmLHzIR5ZjMWxVjJiUZ2gn0XwjcTXHhWzNzK80ke+HzZG3NII3ZA7HuSFBJ7k0AaP9m2P/Pnb/wDfpf8ACkOl2DY3WNscHIzCvB/KrVFAFb+zbH/nzt/+/S/4Uh0uwLBjY2xI6HyV4/SrVFAFb+zbH/nzt/8Av0v+Fcn9gs/+FybPskG3+wM7fLGM/aOtdrXJf81o/wC5f/8AbigDpP7Nsf8Anzt/+/S/4Uf2bY/8+dv/AN+l/wAKs0UAVv7Nsf8Anzt/+/S/4Uf2bY/8+dv/AN+l/wAKs0UAVv7Nsf8Anzt/+/S/4Uf2bY/8+dv/AN+l/wAKmnUvbyKoyWQgD8K88sp4pvhV4DjikVnll0qNFB5Zk2M649VEbkjqNrZ6GgDvf7Nsf+fO3/79L/hR/Ztj/wA+dv8A9+l/wrhH1jXBZ3dzNrzQLd68+k27fZ4tlnF57IH5XLSHGxSxK5ZMqTndVv8AxHrukLrWm22s3GsTQajZ2MVwIrVbiDzhlhz5cJk5CruAGWTKschgD0X+zbH/AJ87f/v0v+FH9m2P/Pnb/wDfpf8ACuBj1PxXLFpWl3F7e6bPca89k1zdJZyXT232GWf51i3xK4ZflwBwqEqckGlfDVdYu/DEVzrt6JrDxTdWRuYYbcNKq29yUkYGMrvCjYcAKdzHaDtKgHpf9m2P/Pnb/wDfpf8ACj+zbH/nzt/+/S/4Vi+PNTvNI8KG7029isZzfWUP2mZAyRpJdxRuWB4xtds9PYg81z13resaRfatof8Abz3gjk09F1a6ghElmbqR0ZWCKsZZQiMmV6zLuDDAIB2t1DpFjEsl7HY26NIsatKqIC7EKqgnuSQAO5NTf2bY/wDPnb/9+l/wrhL7XNa0S8u9LXWJNRFtqOjoL2eGEShbm6EcsD7EVM7ACCFBAlHfBpTq2vQ3jatLrcr2qeIhpi6cLeERNA8wiBZtvmbwXyCGAwqgqeSQDuv7Nsf+fO3/AO/S/wCFH9m2P/Pnb/8Afpf8K8ws7jWfDfhvUjZajqV/Pf8AiWWzBKWgkhBmfc8e5Y08x+AN5K7iuF/hbRh1PxVP/ZOl3N7eaZLPrMto9xcpZyXb24s3nBZYt8SvuwBgDhVJXnBAO+/s2x/587f/AL9L/hR/Ztj/AM+dv/36X/CsvxdNLb+F3jimkRrme2s2mVtros08cTOCMYIVycjGCO1Ymp6Jbab8QPCMlnJPFArTW0Nkkm22gRLaTGyIYUHn7xycAAEDigDr/wCzbH/nzt/+/S/4Uf2bY/8APnb/APfpf8K8vgFx/wAJXc+JtSt9Ju5Y/EY0pElhdr6GMyiKPyZt4EShXEjRBCGUyMW+c47nwjGtpBqml267LTTdQeC1QdEjKJIEHoqmQqAOAqgdqANf+zbH/nzt/wDv0v8AhR/Ztj/z52//AH6X/CrNFAFb+zbH/nzt/wDv0v8AhR/Ztj/z52//AH6X/CrNFAHF/EaytYfDVm8VtCjDWdNwyxgEf6bDXQ+If+QSv/X1bf8Ao9KxfiV/yK9p/wBhrTP/AEthqj8SNe1bRI7UW0NtJYzOjF3RiyyI4cDIYDBwO3Y1tRg51EkZ1ZKMG2d3RWfoVxf3eh21zq0cUV1Mm944lICA8gcknOMZ960Kyas7Fp3VwooopDCiiigAooooAKKKKACiiigAooooAKjuf+PWX/cP8qkqK6AazmB5BjYH8qAOb+GP/JJ/Cv8A2Cbb/wBFLXU15f8AD34beDtQ+Gvhy8vfDtjNcXGmW8ksjx5LsYwST+NdH/wqvwN/0LGn/wDfugDraK5L/hVfgb/oWNP/AO/dH/Cq/A3/AELGn/8AfugDraK5L/hVfgb/AKFjT/8Av3R/wqvwN/0LGn/9+6AN7VtB0jXoEh13SrLUoo23pHeW6TKrYxkBgcHFTxafZwFDBaQRmOEQJsiA2xjogwOF9ulc1/wqvwN/0LGn/wDfuj/hVfgb/oWNP/790AbNx4X0C7WxW70PTZ105QtkJbSNhagYwI8j5ANq9MdB6VNPomlXWrwarc6ZZzajbLsgvJLdGmiXnhXIyB8x6HufWsD/AIVX4G/6FjT/APv3R/wqvwN/0LGn/wDfugDdl0DR7jyPP0mxl+ziUQ77ZD5QkBEgXI43AkNjrk5qIeF/D40Q6MNC03+yy242P2OPyCc5z5eNuc89OtY//Cq/A3/Qsaf/AN+6P+FV+Bv+hY0//v3QB0Fro2l2McMdlptpbJbsXhWGBUEbFdpKgDg7eMjtxT00ywiWJY7K3RYZnniCxKBHK27c444Y73yRydzeprnP+FV+Bv8AoWNP/wC/dH/Cq/A3/Qsaf/37oA6HVNMi1W0WGWSSFo5FlimhIDxOpyGGQR+BBBBIIINT/ZoPtf2ryI/tGzy/O2DfsznbnrjPOK5f/hVfgb/oWNP/AO/dH/Cq/A3/AELGn/8AfugDZbw5piXF9eafaW+m6lfRlJtStLeJbg57lyp3EEA/MCOBxV2xsrfTdPt7Kyj8q3t41iiQEnaqjAGTyeB1Ncz/AMKr8Df9Cxp//fuj/hVfgb/oWNP/AO/dAHW0VyX/AAqvwN/0LGn/APfuj/hVfgb/AKFjT/8Av3QB1tFcl/wqvwN/0LGn/wDfuj/hVfgb/oWNP/790AdbXJf81o/7l/8A9uKP+FV+Bv8AoWNP/wC/dN/4VP4E83zP+EXsN2Nv3D0+maAOvorkv+FV+Bv+hY0//v3R/wAKr8Df9Cxp/wD37oA62iuS/wCFV+Bv+hY0/wD790f8Kr8Df9Cxp/8A37oA62s228N6HZ6xLq1po2nwalNu828itUWaTPXLgbjnvk1if8Kr8Df9Cxp//fuj/hVfgb/oWNP/AO/dAGxq2j/bNDurDTotNh+1MTIl5Y/aIJNzZffEHTcW5/i6nJzWd4e8F2ek6Re2WoRafeLft+/t4LBYLQRhQqxJBlgEwCSCWJZmOcEAQf8ACq/A3/Qsaf8A9+6P+FV+Bv8AoWNP/wC/dAG/Z6HpOnWtrbafpdnawWcjS20UFuiLA7BgWQAYUkO4JHZm9TSXOhaTe2r2t5pdlcW8k3nvFLboyNJnO8gjBbPOetYP/Cq/A3/Qsaf/AN+6P+FV+Bv+hY0//v3QBs+IdFXX9KSxklEaLeWtyxaPeGENxHNsIyPveXtz2znB6U+18O6JY6TNpVlo9hb6dOGEtnDaokMm4YbcgGDkcHI5rD/4VX4G/wChY0//AL90f8Kr8Df9Cxp//fugDdtfD+jWGnpYWOk2NtZxyrMltDbIkayKwZXCgYDBgCD1BANTtpti0exrK3KeeLjaYlx5obcJMY+9uAO7rnmub/4VX4G/6FjT/wDv3R/wqvwN/wBCxp//AH7oA3JPD2iym/MukWDnUgovi1sh+1BRhRJx8+ATjdnFSWei6Vp9ra21hplnawWbM9tFBbqiwM24MUAGFJ3tkjruPqa5/wD4VX4G/wChY0//AL90f8Kr8Df9Cxp//fugDpNQsINU024sbxS0FxGY3CsVOCOoI5B7gjkHmhLGLbam6xd3Fqv7u5nRPM3bdrNwAFJGc7QByeMcVzf/AAqvwN/0LGn/APfuj/hVfgb/AKFjT/8Av3QBvnQ9JbWl1htLsjqapsW+NunnBcYx5mN2MEjGaXSdMi0jT1tYpJZjveSSaYgvNI7FndsADJYk4AAHQAAADn/+FV+Bv+hY0/8A790f8Kr8Df8AQsaf/wB+6AOtorkv+FV+Bv8AoWNP/wC/dH/Cq/A3/Qsaf/37oA62iuS/4VX4G/6FjT/+/dH/AAqvwN/0LGn/APfugA+JX/Ir2n/Ya0z/ANLYa6LUtMtNWtRb38QliWRZAp9VOR/h9Ca878beAPCmiaPY32k6FZ2l1HrOnBJY0wyg3kQP5gkV6fTTad0JpNWYUUUUhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUdz/x6y/7h/lUlR3P/AB6y/wC4f5UAc18Mf+ST+Ff+wTbf+ilrqa5b4Y/8kn8K/wDYJtv/AEUtdTQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcvrMcms+MLbQ5726tLFbF7t47O4e3kuWDqgHmIQ6qmckKRksuTjIONd6tqXhF9d0/SZX1OOzjsJrNNSuHlMbXNw8bxNMcuR8oYFixXf/dCrXX6xoGna6kI1GKQvbsXgngnkgmiJGDskjZXXI4OCMjg1kap4IsZPCNzomlW8YW6uYp7hruV5muNsyO5kkfc7kqu0bieAo4AGADnvFes+KbTRNe0qbU9PS/tba3vIb6ytJYsxSSshQx+cSrAx8MHIIJG0Yyb9zr97pGt6vAbXTZtTEGlwC8jtzCJpbiWWIGT5mby0PzBck8sM5bNb9t4N0S203ULJbeeaPUl2XclzeTTzSrt2gea7mQADO3DDaSSMEk08+E9Ge3uoZraSdby3itp2nuJJHkSPcY8uzFtyl2IfO7ODnIGADntR8UeItDh1WyvBpl/qVqlnNbTQwyW8MqTzmHY6F3KkFWO4MQcjj5SC6XxF4ls49XsJhZXuoWElu32uz0+ZkSCUHLm2EjO7KUb5UfJBB7EHetvCGjW1lParbzTLcSxyzSXN3NPLI0bBkzK7FyFIBAzgc8cmpL7wxpWoTXM9xDMk915fmT291LDIPL3BdrowZDh2HykZDEHINAE+iXx1LRLW7a4guTLHkzW6MiOehIRssnTlCSVOVJOM1xMHxBv21i+t1ls723bSrvUbOWLTrmGMGEx4UTOdlyjCUHzI9o+Xp8wru9P0200rTYdPsYRHbQrtVCSxPqSTksSSSSSSSSSSTWLZfD/w3p77raymyLSSyQS3s8ojt327okDOQifIuFXAXHGMmgDF/wCEy17SI5X12LTrqSfRzqVpDaRyQ+U4ZFMMjsz7xmWP94FXgMdnQCzpKa3F8Skj8QXWn3Uv9juySWNu8AGZkypRnfpjht3OcbRjJ6G58N6ReEfa7JJgLJ7DbISymB9u5CCcEHYvJ5469ah0fwjo+hXzXlhBObtofINxc3k1xIY8ghN0rsdoIyB0GTjGTkA5vxvc2q+M9JttUl177G+m3cnk6I97vaVZIArMLX5uAzAFvlGfeqeveMNe8JeDrSW7ngl1Wy0v7Zf2slhNdzS7QTiR7c7LfOxh5rbkLBsDCHPoL6favqsWpNFm7hheBJNx4R2VmGM45Ma84zx9aytc8FaD4jnml1e1mla4t/s06xXc0KzxDdhZFRwHxvYjcCVJJGKAOT8f6trOq+D/ABymly6fBpmmWE9rOlzC7TXDNaCVmVw4EYCzKACrbiD0BBpfiFqmtal4R8dQ6bJp8GnaVYT2lxHcwu01wzWglZlcOBGAsygAq24g9AQa6fV/AXh3XZ7iTU7KWT7XALe5jS7mjjnQAhfMjRwrsAeGYFhhcEbRhdZ8CeHvEF1dT6rZSym8hEF1Gl3NFHcKAQPMjRwrsAeGILDC4I2jABjal4gvtP1TXV0ew01bsarp9mJpIiDKJliBeQqQWKh+PYAUL4r11bmTQZX01tbOrjT4rtbeRbfYbT7V5hhMhbIQMu0ScnByBnHUS+HtLmuZ7iS13S3FzDdSN5jfNLFt8tuvGNq8dDjnNZniLwxDeWV22n6TbXl3eXUVzL5+ozWZDogRZEljV2RgqqPlAyM5PJyASeFNV1TUJtctNbaykuNL1EWiy2UbIkim3hl3FWZiDmU8ZOOBk4yehrnPBfhuTw5p16LhYkuNQvGu5ooZnmWNtiRgeZJh5DtjUs7AFmLHHNdHQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcl8Sv+RXtP+w1pn/pbDXW1yXxK/5Fe0/7DWmf+lsNdbQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFNkQSxMjZwwIOD606igDirD4YWWm6fb2Nl4i8TRW9vGsUUaaq6hVUYAAHA49Ksf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/AEM3ij/wbyUf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/AEM3ij/wbyUf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/AEM3ij/wbyUf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/AEM3ij/wbyUf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/AEM3ij/wbyUf8K+h/wChm8Uf+DeSutooA5L/AIV9D/0M3ij/AMG8lH/Cvof+hm8Uf+DeSutooA5L/hX0P/QzeKP/AAbyUf8ACvof+hm8Uf8Ag3krraKAOS/4V9D/ANDN4o/8G8lH/Cvof+hm8Uf+DeSutooA46X4a2Ny0H2vXfEV0kFxFcLFPqbyIzxuHXKngjcorsaKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigD/9k=)

* Sequence Number: 데이터 세그먼트로 구분한 데이터의 순서번호를 표기한다.
  + MSS(Max Segment Size): TCP가 한방에 보낼 수 있는 최대 데이터 량. 큰 데이터를 보내면 MSS만큼 잘려서 보내지게 됨. 보통 1460byte
  + MTU(Maximum Transmission Unit): 한 프레임 또는 패킷의 최대 크기. 매체에 따라 달라짐 클라와 서버가 있다면, 보통 작은 측의 MTU에 맞춰서 데이터를 주고받음. windows는 보통 1500임
* Acknowledgement Number: 상대방으로부터 수신한 데이터 바로 다음에 수신할 데이터 순서 번호를 나타냄. Seq Num의 확인 응답. 다음 전송할 세그먼트의 Seq Num이기도 함.

## 프로토콜

테이블이(가) 표시된 사진

자동 생성된 설명